■ 원정교 대구방향(P2) 상부 output

LOAD SET FOR ELEMENT OUTPUTS - Load Set 1

<< LOAD COMBI/CASE/ENVEL ABBREVIATION TABLE >>

ABBREVIATION FULL NAME TYPE DESCRIPTION

No Abbreviation was made in this Load Set. All names are less than 8 char.'s

<< SELECTED LOAD CASE/COMBINATION DETAIL LIST >>

[Selected Load Cases]

LOAD CASE DESCRIPTION	ANAL.TYPE STATIC LOAD CASE DETAIL TYPE
D	Static User Defined Load (USER)
L	Static User Defined Load (USER)
W-TR	Static User Defined Load (USER)
WL	Static User Defined Load (USER)
W-LO	Static User Defined Load (USER)

BEAM ELEMENT FORCES & MOMENTS DEFAULT PRINTOUT Unit System : kN , m

ELEM	MAT	SEC	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z
1	1	1	D	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	214.9	0.0	-220.3	0.0	0.0
			L	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			W-TR	I	-26.5	0.0	0.0	0.0	0.0	0.0
				J	-26.5	0.0	0.0	0.0	0.0	0.0
			WL	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			W-LO	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	-20.8	0.0	0.0	0.0	21.3
2	1	2	D	I	0.0	0.0	3956.1	0.0	-220.3	0.0
				J	0.0	0.0	4300.7	0.0	-9509.1	0.0
			L	I	0.0	0.0	673.0	0.0	0.0	0.0
				J	0.0	0.0	673.0	0.0	-1514.2	0.0
			W-TR	I	-290.4	0.0	0.0	0.0	815.5	0.0
				J	-290.4	0.0	0.0	0.0	815.5	0.0
			WL	I	-31.9	0.0	0.0	0.0	175.5	0.0
				J	-31.9	0.0	0.0	0.0	175.5	0.0
			W-LO	I	0.0	-20.8	0.0	0.0	0.0	21.3
				J	0.0	-45.9	0.0	0.0	0.0	96.3
3	1	3	D	I	0.0	0.0	4300.7	0.0	-9509.1	0.0
				J	0.0	0.0	4609.6	0.0	-16191.7	0.0
			L	I	0.0	0.0	673.0	0.0	-1514.2	0.0
				J	0.0	0.0	673.0	0.0	-2523.7	0.0
			W-TR	I	-290.4	0.0	0.0	0.0	815.5	0.0
				J	-290.4	0.0	0.0	0.0	815.5	0.0
			WL	I	-31.9	0.0	0.0	0.0	175.5	0.0
				J	-31.9	0.0	0.0	0.0	175.5	0.0
			W-LO	I	0.0	-45.9	0.0	0.0	0.0	96.3
				J	0.0	-68.1	0.0	0.0	0.0	181.8
4	1	3	D	I	0.0	0.0	-4316.9	0.0	-15094.2	0.0
				J	0.0	0.0	-4008.0	0.0	-8850.5	0.0
			L	I	0.0	0.0	-802.1	0.0	-3007.8	0.0
				J	0.0	0.0	-802.1	0.0	-1804.7	0.0
			W-TR	I	263.9	0.0	0.0	0.0	-815.5	0.0
				J	263.9	0.0	0.0	0.0	-815.5	0.0
			WL	I	31.9	0.0	0.0	0.0	-175.5	0.0
				J	31.9	0.0	0.0	0.0	-175.5	0.0
			W-LO	I	0.0	68.1	0.0	0.0	0.0	181.8
				J	0.0	45.9	0.0	0.0	0.0	96.3
5	1	2	D	I	0.0	0.0	-4008.0	0.0	-8850.5	0.0
				J	0.0	0.0	-3663.4	0.0	-220.3	0.0
			L	I	0.0	0.0	-802.1	0.0	-1804.7	0.0
				J	0.0	0.0	-802.1	0.0	0.0	0.0
			W-TR	I	263.9	0.0	0.0	0.0	-815.5	0.0
				J	263.9	0.0	0.0	0.0	-815.5	0.0
			WL	I	31.9	0.0	0.0	0.0	-175.5	0.0
				J	31.9	0.0	0.0	0.0	-175.5	0.0
			W-LO	I	0.0	45.9	0.0	0.0	0.0	96.3
				J	0.0	20.8	0.0	0.0	0.0	21.3
6	1	1	D	I	0.0	0.0	-214.9	0.0	-220.3	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			L	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			W-TR	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			WL	I	0.0	0.0	0.0	0.0	0.0	0.0
				J	0.0	0.0	0.0	0.0	0.0	0.0
			W-LO	I	0.0	20.8	0.0	0.0	0.0	21.3
				J	0.0	0.0	0.0	0.0	0.0	0.0
7	1	4	D	I	-8926.4	0.0	0.0	0.0	-1097.5	0.0
				J	-10093.4	0.0	0.0	0.0	-1097.5	0.0
			L	I	-1475.1	0.0	0.0	0.0	484.1	0.0
				J	-1475.1	0.0	0.0	0.0	484.1	0.0
			W-TR	I	0.0	0.0	-554.3	0.0	2462.5	0.0
				J	0.0	0.0	-584.6	0.0	6297.3	0.0
			WL	I	0.0	0.0	-63.7	0.0	446.6	0.0
				J	0.0	0.0	-63.7	0.0	875.9	0.0
			W-LO	I	0.0	-136.3	0.0	0.0	0.0	204.4
				J	0.0	-166.6	0.0	0.0	0.0	1224.1

BEAM ELEMENT FORCES & MOMENTS MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

* LENGTH : the length of between two nodes

[SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION SHAPE : SB]
[SECTION SIZE] H:1.527 B:2.8

** MAX

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
1	AXL	D	1	J	0.0	0.0	214.9	0.0	-220.3	0.0
					2.05					
6	SHY	W-LO	1	I	0.0	20.8	0.0	0.0	0.0	21.3
					2.05					
1	SHZ	D	1	J	0.0	0.0	214.9	0.0	-220.3	0.0
					2.05					
1	TOR	D	1	J	0.0	0.0	214.9	0.0	-220.3	0.0
					2.05					
1	MTY	W-TR	1	I	-26.5	0.0	0.0	0.0	0.0	0.0
					2.05					
1	MTZ	W-LO	1	J	0.0	-20.8	0.0	0.0	0.0	21.3
					2.05					

** MIN

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
1	AXL	W-TR	1	I	-26.5	0.0	0.0	0.0	0.0	0.0
					2.05					
1	SHY	W-LO	1	J	0.0	-20.8	0.0	0.0	0.0	21.3
					2.05					
6	SHZ	D	1	I	0.0	0.0	-214.9	0.0	-220.3	0.0
					2.05					
1	TOR	D	1	J	0.0	0.0	214.9	0.0	-220.3	0.0
					2.05					
1	MTY	D	1	J	0.0	0.0	214.9	0.0	-220.3	0.0
					2.05					
1	MTZ	W-TR	1	I	-26.5	0.0	0.0	0.0	0.0	0.0
					2.05					

[SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION SHAPE : SB]
[SECTION SIZE] H:2.231 B:2.8

** MAX

ELEM	COM	LC	PT	AXIAL

SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
5 AXL W-TR 1 I 263.9 0.0
0.0 0.0 -815.5 0.0 2.25
5 SHY W-LO 1 I 0.0 45.9
0.0 0.0 0.0 96.3 2.25
2 SHZ D 1 J 0.0 0.0
4300.7 0.0 -9509.1 0.0 2.25
2 TOR D 1 J 0.0 0.0
4300.7 0.0 -9509.1 0.0 2.25
2 MTY W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 2.25
2 MTZ W-LO 1 J 0.0 -45.9
0.0 0.0 0.0 96.3 2.25

** MIN

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
2 AXL W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 2.25
2 SHY W-LO 1 J 0.0 -45.9
0.0 0.0 0.0 96.3 2.25
5 SHZ D 1 I 0.0 0.0
-4008.0 0.0 -8850.5 0.0 2.25
2 TOR D 1 J 0.0 0.0
4300.7 0.0 -9509.1 0.0 2.25
2 MTY D 1 J 0.0 0.0
4300.7 0.0 -9509.1 0.0 2.25
2 MTZ W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 2.25

[SECTION NAME : 코핑3 , SECTION ID : 3 , SECTION SHAPE : SB]
[SECTION SIZE] H:3 B:2.8
** MAX

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
4 AXL W-TR 1 J 263.9 0.0
0.0 0.0 -815.5 0.0 1.50
4 SHY W-LO 1 I 0.0 68.1
0.0 0.0 0.0 181.8 1.50
3 SHZ D 1 J 0.0 0.0
4609.6 0.0 -16191.7 0.0 1.50
3 TOR D 1 J 0.0 0.0
4609.6 0.0 -16191.7 0.0 1.50
3 MTY W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 1.50
3 MTZ W-LO 1 J 0.0 -68.1
0.0 0.0 0.0 181.8 1.50

** MIN

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
3 AXL W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 1.50
3 SHY W-LO 1 J 0.0 -68.1
0.0 0.0 0.0 181.8 1.50
4 SHZ D 1 I 0.0 0.0
-4316.9 0.0 -15094.2 0.0 1.50
3 TOR D 1 J 0.0 0.0
4609.6 0.0 -16191.7 0.0 1.50
3 MTY D 1 J 0.0 0.0
4609.6 0.0 -16191.7 0.0 1.50
3 MTZ W-TR 1 I -290.4 0.0
0.0 0.0 815.5 0.0 1.50

[SECTION NAME : 기둥 , SECTION ID : 4 , SECTION SHAPE : SR]
[SECTION SIZE] D:3
** MAX

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
7 AXL W-TR 1 J 0.0 0.0
-584.6 0.0 6297.3 0.0 6.73
7 SHY D 1 I -8926.4 0.0
0.0 0.0 -1097.5 0.0 6.73
7 SHZ D 1 I -8926.4 0.0
0.0 0.0 -1097.5 0.0 6.73
7 TOR W-TR 1 J 0.0 0.0
-584.6 0.0 6297.3 0.0 6.73
7 MTY W-TR 1 J 0.0 0.0
-584.6 0.0 6297.3 0.0 6.73
7 MTZ W-LO 1 J 0.0 -166.6
0.0 0.0 0.0 1224.1 6.73

** MIN

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

------ --- ---------------- --- ----------
---------- ---------- --------- ---------
--------- --------
7 AXL D 1 J -10093.4 0.0
0.0 0.0 -1097.5 0.0 6.73
7 SHY W-LO 1 J 0.0 -166.6
0.0 0.0 0.0 1224.1 6.73
7 SHZ W-TR 1 J 0.0 0.0
-584.6 0.0 6297.3 0.0 6.73
7 TOR W-TR 1 J 0.0 0.0
-584.6 0.0 6297.3 0.0 6.73
7 MTY D 1 J -10093.4 0.0
0.0 0.0 -1097.5 0.0 6.73
7 MTZ D 1 J -10093.4 0.0
0.0 0.0 -1097.5 0.0 6.73

BEAM ELEMENT STRESSES DEFAULT PRINTOUT
Unit System : kN , m

ELEM MAT SEC LC PT AXIAL
SHEAR-y SHEAR-z (+y)-BENDING-(-y)
(+z)-BENDING-(-z)

------ ------ ------ ------------ ---
--------- --------- --------- ---------
--------- --------- ---------
1 1 1 D I 0.0
0.0 0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
75.4 0.0 0.0 202.4 -202.4

L I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-TR I -6.2
0.0 0.0 0.0 0.0 0.0 0.0
J -6.2 0.0
0.0 0.0 0.0 0.0 0.0

WL I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-LO I 0.0
0.0 0.0 0.0 0.0 0.0 0.0
J 0.0 -7.3
0.0 -10.7 10.7 0.0 0.0

2 1 2 D I 0.0
0.0 949.9 0.0 0.0 94.8 -94.8
J 0.0 0.0
1032.7 0.0 0.0 4093.8 -4093.8

L I 0.0 0.0
161.6 0.0 0.0 0.0 0.0
J 0.0 0.0
161.6 0.0 0.0 651.9 -651.9

W-TR I -46.5
0.0 0.0 0.0 0.0 -351.1 351.1
J -46.5 0.0
0.0 0.0 0.0 -351.1 351.1

WL I -5.1
0.0 0.0 0.0 0.0 -75.5 75.5
J -5.1 0.0
0.0 0.0 0.0 -75.5 75.5

W-LO I 0.0
-5.0 0.0 -7.3 7.3 0.0 0.0
J 0.0 -11.0
0.0 -33.0 33.0 0.0 0.0

3 1 3 D I 0.0
0.0 768.0 0.0 0.0 2264.1 -2264.1
J 0.0 0.0
823.1 0.0 0.0 3855.2 -3855.2

L I 0.0 0.0
120.2 0.0 0.0 360.5 -360.5
J 0.0 0.0
120.2 0.0 0.0 600.9 -600.9

W-TR I -34.6
0.0 0.0 0.0 0.0 -194.2 194.2
J -34.6 0.0
0.0 0.0 0.0 -194.2 194.2

WL I -3.8
0.0 0.0 0.0 0.0 -41.8 41.8
J -3.8 0.0
0.0 0.0 0.0 -41.8 41.8

W-LO I 0.0
-8.2 0.0 -24.6 24.6 0.0 0.0
J 0.0 -12.2
0.0 -46.4 46.4 0.0 0.0

4 1 3 D I 0.0
0.0 -770.9 0.0 0.0 3593.9 -3593.9
J 0.0 0.0
-715.7 0.0 0.0 2107.3 -2107.3

L I 0.0 0.0
-143.2 0.0 0.0 716.1 -716.1
J 0.0 0.0
-143.2 0.0 0.0 429.7 -429.7

W-TR I 31.4
0.0 0.0 0.0 0.0 194.2 -194.2
J 31.4 0.0
0.0 0.0 0.0 194.2 -194.2

WL I 3.8 0.0
0.0 0.0 0.0 41.8 -41.8
J 3.8 0.0
0.0 0.0 0.0 41.8 -41.8

W-LO I 0.0
12.2 0.0 -46.4 46.4 0.0 0.0
J 0.0 8.2
0.0 -24.6 24.6 0.0 0.0

5 1 2 D I 0.0
0.0 -962.4 0.0 0.0 3810.3 -3810.3
J 0.0 0.0
-879.7 0.0 0.0 94.8 -94.8

L I 0.0 0.0
-192.6 0.0 0.0 777.0 -777.0
J 0.0 0.0
-192.6 0.0 0.0 0.0 0.0

W-TR I 42.2
0.0 0.0 0.0 0.0 351.1 -351.1
J 42.2 0.0
0.0 0.0 0.0 351.1 -351.1

WL I 5.1 0.0
0.0 0.0 0.0 75.5 -75.5
J 5.1 0.0
0.0 0.0 0.0 75.5 -75.5

W-LO I 0.0
11.0 0.0 -33.0 33.0 0.0 0.0
J 0.0 5.0
0.0 -7.3 7.3 0.0 0.0

6 1 1 D I 0.0
0.0 -75.4 0.0 0.0 202.4 -202.4
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

L I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-TR I 0.0
0.0 0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

WL I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-LO I 0.0
7.3 0.0 -10.7 10.7 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

7 1 4 D I -1262.8
0.0 0.0 0.0 0.0 414.0 -414.0
J -1427.9
0.0 0.0 0.0 0.0 414.0 -414.0

L I -208.7 0.0
0.0 0.0 0.0 -182.6 182.6
J -208.7
0.0 0.0 0.0 0.0 -182.6 182.6

W-TR I 0.0
0.0 -104.6 0.0 0.0 -929.0 929.0
J 0.0 0.0
-110.3 0.0 0.0 -2375.7 2375.7

WL I 0.0 0.0
-12.0 0.0 0.0 -168.5 168.5
J 0.0 0.0

```
   -12.0        0.0        0.0     -330.4      330.4
                                W-LO              I            0.0
-25.7        0.0      -77.1       77.1        0.0        0.0
                                     J        0.0      -31.4
     0.0     -461.8      461.8       0.0        0.0
```

BEAM ELEMENT STRESSES MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

---

[SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION SHAPE : SB]
[SECTION SIZE] H:1.527 B:2.8
** MAX

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     1 AXL          D         1    J         0.0         0.0
75.4        0.0        0.0      202.4     -202.4
     6 SHY       W-LO         1    I         0.0         7.3
   0.0      -10.7       10.7       0.0        0.0
     1 SHZ          D         1    J         0.0         0.0
 75.4        0.0        0.0      202.4     -202.4
     1 BY+          D         1    I         0.0         0.0
 0.0        0.0        0.0        0.0        0.0
     1 BY-       W-LO         1    J         0.0        -7.3
   0.0      -10.7       10.7       0.0        0.0
     1 BZ+          D         1    J         0.0         0.0
 75.4        0.0        0.0      202.4     -202.4
     1 BZ-          D         1    I         0.0         0.0
 0.0        0.0        0.0        0.0        0.0
```

** MIN

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     1 AXL       W-TR         1    I        -6.2         0.0
  0.0        0.0        0.0        0.0        0.0
     1 SHY       W-LO         1    J         0.0        -7.3
   0.0      -10.7       10.7       0.0        0.0
     6 SHZ          D         1    I         0.0         0.0
-75.4        0.0        0.0      202.4     -202.4
     1 BY+       W-LO         1    J         0.0        -7.3
   0.0      -10.7       10.7       0.0        0.0
     1 BY-       W-TR         1    I        -6.2         0.0
   0.0        0.0        0.0        0.0        0.0
     1 BZ+       W-TR         1    I        -6.2         0.0
   0.0        0.0        0.0        0.0        0.0
     1 BZ-          D         1    J         0.0         0.0
 75.4        0.0        0.0      202.4     -202.4
```

[SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION SHAPE : SB]
[SECTION SIZE] H:2.231 B:2.8
** MAX

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     5 AXL       W-TR         1    I        42.2         0.0
  0.0        0.0        0.0      351.1     -351.1
     5 SHY       W-LO         1    I         0.0        11.0
   0.0      -33.0       33.0       0.0        0.0
     2 SHZ          D         1    J         0.0         0.0
1032.7        0.0        0.0     4093.8    -4093.8
     5 BY+       W-TR         1    I        42.2         0.0
  0.0        0.0        0.0      351.1     -351.1
     2 BY-       W-LO         1    J         0.0       -11.0
   0.0      -33.0       33.0       0.0        0.0
     2 BZ+          D         1    J         0.0         0.0
1032.7        0.0        0.0     4093.8    -4093.8
     2 BZ-       W-TR         1    I       -46.5         0.0
   0.0        0.0        0.0     -351.1      351.1
```

** MIN

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     2 AXL       W-TR         1    I       -46.5         0.0
  0.0        0.0        0.0     -351.1      351.1
     2 SHY       W-LO         1    J         0.0       -11.0
   0.0      -33.0       33.0       0.0        0.0
     5 SHZ          D         1    I         0.0         0.0
-962.4        0.0        0.0     3810.3    -3810.3
     2 BY+       W-LO         1    J         0.0       -11.0
   0.0      -33.0       33.0       0.0        0.0
     2 BY-       W-TR         1    I       -46.5         0.0
   0.0        0.0        0.0     -351.1      351.1
     2 BZ+       W-TR         1    I       -46.5         0.0
   0.0        0.0        0.0     -351.1      351.1
     2 BZ-          D         1    J         0.0         0.0
1032.7        0.0        0.0     4093.8    -4093.8
```

[SECTION NAME : 코핑3 , SECTION ID : 3 , SECTION SHAPE : SB]
[SECTION SIZE] H:3 B:2.8
** MAX

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     4 AXL       W-TR         1    J        31.4         0.0
   0.0        0.0        0.0      194.2     -194.2
     4 SHY       W-LO         1    I         0.0        12.2
   0.0      -46.4       46.4       0.0        0.0
     3 SHZ          D         1    J         0.0         0.0
823.1        0.0        0.0     3855.2    -3855.2
     4 BY+       W-TR         1    I        31.4         0.0
  0.0        0.0        0.0      194.2     -194.2
     3 BY-       W-LO         1    J         0.0       -12.2
   0.0      -46.4       46.4       0.0        0.0
     3 BZ+          D         1    J         0.0         0.0
823.1        0.0        0.0     3855.2    -3855.2
     3 BZ-       W-TR         1    I       -34.6         0.0
   0.0        0.0        0.0     -194.2      194.2
```

** MIN

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     3 AXL       W-TR         1    I       -34.6         0.0
  0.0        0.0        0.0     -194.2      194.2
     3 SHY       W-LO         1    J         0.0       -12.2
   0.0      -46.4       46.4       0.0        0.0
     4 SHZ          D         1    I         0.0         0.0
-770.9        0.0        0.0     3593.9    -3593.9
     3 BY+       W-LO         1    J         0.0       -12.2
   0.0      -46.4       46.4       0.0        0.0
     3 BY-       W-TR         1    I       -34.6         0.0
   0.0        0.0        0.0     -194.2      194.2
     3 BZ+       W-TR         1    I       -34.6         0.0
   0.0        0.0        0.0     -194.2      194.2
     3 BZ-          D         1    J         0.0         0.0
823.1        0.0        0.0     3855.2    -3855.2
```

[SECTION NAME : 기둥 , SECTION ID : 4 , SECTION SHAPE : SR]
[SECTION SIZE] D:3
** MAX

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     7 AXL       W-TR         1    J         0.0         0.0
-110.3        0.0        0.0    -2375.7     2375.7
     7 SHY          D         1    I     -1262.8         0.0
   0.0        0.0        0.0      414.0     -414.0
     7 SHZ          D         1    I     -1262.8         0.0
   0.0        0.0        0.0      414.0     -414.0
     7 BY+       W-TR         1    I         0.0         0.0
-104.6        0.0        0.0     -929.0      929.0
     7 BY-       W-LO         1    J         0.0       -31.4
   0.0     -461.8      461.8       0.0        0.0
     7 BZ+          D         1    I     -1262.8         0.0
   0.0        0.0        0.0      414.0     -414.0
     7 BZ-       W-TR         1    J         0.0         0.0
-110.3        0.0        0.0    -2375.7     2375.7
```

** MIN

```
  ELEM COM        LC            PT      AXIAL    SHEAR-y
 SHEAR-Z   (+y)-BENDING-(-y)    (+z)-BENDING-(-z)

------  ---  -----------------  ---  ---------
---------    ---------    ---------    ---------
--------- ---------
     7 AXL          D         1    J     -1427.9         0.0
   0.0        0.0        0.0      414.0     -414.0
     7 SHY       W-LO         1    J         0.0       -31.4
   0.0     -461.8      461.8       0.0        0.0
     7 SHZ       W-TR         1    J         0.0         0.0
-110.3        0.0        0.0    -2375.7     2375.7
     7 BY+       W-LO         1    J         0.0       -31.4
   0.0     -461.8      461.8       0.0        0.0
     7 BY-          D         1    J     -1427.9         0.0
   0.0        0.0        0.0      414.0     -414.0
     7 BZ+       W-TR         1    J         0.0         0.0
-110.3        0.0        0.0    -2375.7     2375.7
     7 BZ-          D         1    J     -1427.9         0.0
   0.0        0.0        0.0      414.0     -414.0
```