
MIDAS/Civil Text(MCT) File.
Date : 2016/1/12

*VERSION
8.1.5
*UNIT : Unit System
: FORCE, LENGTH, HEAT, TEMPER
KN, M, KOAL, C
*PROJINFO : Project Information
USER=kms
ADDRESS=ourbrain
*STRUCTYPE : Structure Type
: ISTYP, IMASS, ISMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTTRIGID
0, 1, 1, NO, NO, 9.806, 0, YES, YES, NO
*REBAR-MATL-CODE : Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE : Nodes
: INO, X, Y, Z
1, 704.669018932695, -538.603997237366, 0
2, 709.52796963034, -539.869556195194, 0
3, 714.404465834686, -541.065727640632, 0
4, 719.297516721382, -542.192268531186, 0
5, 724.206128102434, -543.248949972153, 0
6, 729.129302628212, -544.235557263131, 0
7, 734.066039990093, -545.151889941637, 0
8, 739.015337123704, -545.997761823843, 0
9, 743.976188412736, -546.773001042404, 0
10, 748.947585893261, -547.477450081377, 0
11, 753.928519458539, -548.110965808227, 0
12, 758.917977064253, -548.67341950291, 0
13, 763.914944934141, -549.164696884024, 0
14, 768.918407765976, -549.584698132033, 0
15, 773.927348937862, -549.93337909546, 0
16, 778.940750714794, -550.210545378656, 0
17, 783.957594455446, -550.416264215334, 0
18, 788.97686081914, -550.550452620875, 0
19, 793.997529972958, -550.613083330387, 0
20, 799.018581798964, -550.613083330387, 0
21, 804.038996101463, -550.523635301117, 0
22, 809.1312996125, -550.371355775314, 0
23, 812.059998494169, -550.245099331868, 0
24, 817.046372820087, -549.981664290976, 0
25, 822.0874897994, -549.64191140555, 0
26, 827.123215024375, -549.229887279043, 0
27, 832.152512442454, -548.7456766815, 0
28, 837.174347323541, -548.189379234644, 0
29, 842.187686472882, -547.561109391384, 0
30, 847.191498443644, -546.860996412261, 0
31, 852.184753749116, -546.089184338861, 0
32, 857.166425074524, -545.245831964175, 0
33, 862.135487488384, -544.331112799932, 0
34, 867.090918653379, -543.345215040897, 0
35, 872.03169903669, -542.288341526155, 0
36, 876.956812119757, -541.160709697376, 0
37, 881.865244607419, -539.962551554082, 0
38, 886.755986636387, -538.694113605912, 0
39, 705.8342522468099, -534.257477847329, 0
40, 710.638906846325, -535.50883564911, 0
41, 715.460937106939, -536.691470084599, 0
42, 720.299360318677, -537.805140083479, 0
43, 725.153190208704, -538.849618633267, 0
44, 730.021437363661, -539.82469282559, 0
45, 734.90310943135, -540.730163899582, 0
46, 739.797211323011, -541.5658472824, 0
47, 744.702745416171, -542.331572626851, 0
48, 749.618711757993, -543.027183846112, 0
49, 754.544108269112, -543.652539145549, 0
50, 759.477930947904, -544.207511051621, 0
51, 764.419174075135, -544.691986437862, 0
52, 769.366830418978, -545.105866547943, 0
53, 774.319891440321, -545.449067015804, 0
54, 779.277347498354, -545.721517882848, 0
55, 784.238188056376, -545.923163612203, 0
56, 789.201401887783, -546.053963100044, 0
57, 794.165977282197, -546.113889683969, 0
58, 799.130902251699, -546.102931148435, 0
59, 804.095164737111, -546.021089727252, 0
60, 808.936519824713, -545.874149595937, 0
61, 811.904601735715, -545.744700384655, 0
62, 816.968041299013, -545.478180721206, 0
63, 821.930866747294, -545.141044435591, 0
64, 826.888362157746, -544.73295523053, 0
65, 831.839513185545, -544.25399748198, 0
66, 836.783306783982, -543.704268311174, 0
67, 841.718731411174, -543.083880489798, 0
68, 846.64477723986, -542.392960954365, 0
69, 851.560436358366, -541.631651072762, 0
70, 856.46470298249, -540.800106615327, 0
71, 861.356573658461, -539.898497722977, 0
72, 866.235047468822, -538.927008872396, 0
73, 871.099126237228, -537.885838838288, 0
74, 875.947814732679, -536.775200652709, 0
75, 880.780120873152, -535.595321561475, 0
76, 885.595055928593, -534.346442977668, 0
*ELEMENT : Elements
: IEL, TYPE, IMAT, IPRO, IN1, IN2, ANGLE, ISUB, EXVAL, IOPT(EXVAL2) : Frame Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, ANGLE, ISUB, EXVAL, EXVAL2, bLMT : Comp/Tens Truss
: IEL, TYPE, IMAT, IPRO, IN1, IN2, IN3, IN4, ISUB, IWID : Planar Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, IN3, IN4, IN5, IN6, IN7, IN8 : Solid Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, REF, RPX, RPY, ISUB, EXVAL : Frame(Ref. Point)
1, BEAM, 1, 1, 2, 0
2, BEAM, 1, 2, 3, 0
3, BEAM, 1, 2, 3, 4, 0
4, BEAM, 1, 3, 4, 5, 0
5, BEAM, 1, 3, 5, 6, 0
6, BEAM, 1, 3, 6, 7, 0
7, BEAM, 1, 2, 7, 8, 0

8	BEAM	1	4	8	9	0
9	BEAM	1	5	9	10	0
10	BEAM	1	6	10	11	0
11	BEAM	1	7	11	12	0
12	BEAM	1	8	12	13	0
13	BEAM	1	9	13	14	0
14	BEAM	1	10	14	15	0
15	BEAM	1	11	15	16	0
16	BEAM	1	12	16	17	0
17	BEAM	1	13	17	18	0
18	BEAM	1	14	18	19	0
19	BEAM	1	15	19	20	0
20	BEAM	1	16	20	21	0
21	BEAM	1	17	21	22	0
22	BEAM	1	18	22	23	0
23	BEAM	1	19	23	24	0
24	BEAM	1	20	24	25	0
25	BEAM	1	21	25	26	0
26	BEAM	1	22	26	27	0
27	BEAM	1	23	27	28	0
28	BEAM	1	24	28	29	0
29	BEAM	1	25	29	30	0
30	BEAM	1	26	30	31	0
31	BEAM	1	27	31	32	0
32	BEAM	1	28	32	33	0
33	BEAM	1	29	33	34	0
34	BEAM	1	30	34	35	0
35	BEAM	1	31	35	36	0
36	BEAM	1	32	36	37	0
37	BEAM	1	33	37	38	0
38	BEAM	1	34	38	39	0
39	BEAM	1	35	39	40	0
40	BEAM	1	36	40	41	0
41	BEAM	1	37	41	42	0
42	BEAM	1	38	42	43	0
43	BEAM	1	39	43	44	0
44	BEAM	1	40	44	45	0
45	BEAM	1	41	45	46	0
46	BEAM	1	42	46	47	0
47	BEAM	1	43	47	48	0
48	BEAM	1	44	48	49	0
49	BEAM	1	45	49	50	0
50	BEAM	1	46	50	51	0
51	BEAM	1	47	51	52	0
52	BEAM	1	48	52	53	0
53	BEAM	1	49	53	54	0
54	BEAM	1	50	54	55	0
55	BEAM	1	51	55	56	0
56	BEAM	1	52	56	57	0
57	BEAM	1	53	57	58	0
58	BEAM	1	54	58	59	0
59	BEAM	1	55	59	60	0
60	BEAM	1	56	60	61	0
61	BEAM	1	57	61	62	0
62	BEAM	1	58	62	63	0
63	BEAM	1	59	63	64	0
64	BEAM	1	60	64	65	0
65	BEAM	1	61	65	66	0
66	BEAM	1	62	66	67	0
67	BEAM	1	63	67	68	0
68	BEAM	1	64	68	69	0
69	BEAM	1	65	69	70	0
70	BEAM	1	66	70	71	0
71	BEAM	1	67	71	72	0
72	BEAM	1	68	72	73	0
73	BEAM	1	69	73	74	0
74	BEAM	1	70	74	75	0
75	BEAM	1	71	75	76	0
76	BEAM	1	72	76	77	0
77	BEAM	1	73	77	78	0
78	BEAM	1	74	78	79	0
79	BEAM	1	75	79	80	0
80	BEAM	1	76	80	81	0
81	BEAM	1	77	81	82	0
82	BEAM	1	78	82	83	0
83	BEAM	1	79	83	84	0
84	BEAM	1	80	84	85	0
85	BEAM	1	81	85	86	0
86	BEAM	1	82	86	87	0
87	BEAM	1	83	87	88	0
88	BEAM	1	84	88	89	0
89	BEAM	1	85	89	90	0
90	BEAM	1	86	90	91	0
91	BEAM	1	87	91	92	0
92	BEAM	1	88	92	93	0
93	BEAM	1	89	93	94	0
94	BEAM	1	90	94	95	0
95	BEAM	1	91	95	96	0
96	BEAM	1	92	96	97	0
97	BEAM	1	93	97	98	0
98	BEAM	1	94	98	99	0
99	BEAM	1	95	99	100	0
100	BEAM	1	96	100	101	0
101	BEAM	1	97	101	102	0
102	BEAM	1	98	102	103	0
103	BEAM	1	99	103	104	0
104	BEAM	1	100	104	105	0
105	BEAM	1	101	105	106	0
106	BEAM	1	102	106	107	0
107	BEAM	1	103	107	108	0
108	BEAM	1	104	108	109	0
109	BEAM	1	105	109	110	0
110	BEAM	1	106	110	111	0
111	BEAM	1	107	111	112	0
112	BEAM	1	108	112		

*GROUP : Group
: NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
가르보 : 75to112, 0
G1 : 39to76, 38to74, 0

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1, 1to38, 1to37, 0
*MATERIAL : Material
IMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1] : STEEL, CONC, USER
IMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] : SRC
[DATA1] : 1, DB, NAME, CODE
[DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
[DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS : Orthotropic
[DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, STEEL, SM490 , 0, 0, , C, NO, 0.05, 1, KS-Civil(S), , SM490
*MATL-COLOR
IMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
*SECTION : Section
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] : 1st line - DB/USER
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, ICEL : 1st line - VALUE
AREA, ASy, ASz, lxx, lyy, lzz : 2nd line
CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz : 3rd line
Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz : 4th line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF : 1st line - SRC
D1, D2, [SRC] : 2nd line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2 : 1st line - COMBINED
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
ISEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE : 1st line - TAPERED
DB, NAME1, NAME2 : 2nd line(STYPE=DB)
[DIM1], [DIM2] : 2nd line(STYPE=USER)
D11, D12, D13, D14, D15, D16, D17, D18 : 2nd line(STYPE=VALUE)
AREA1, ASy1, ASz1, lxx1, lyy1, lzz1 : 3rd line(STYPE=VALUE)
CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 : 4th line(STYPE=VALUE)
Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2 : 5th line(STYPE=VALUE)
D21, D22, D23, D24, D25, D26, D27, D28 : 6th line(STYPE=VALUE)
AREA2, ASy2, ASz2, lxx2, lyy2, lzz2 : 7th line(STYPE=VALUE)
CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 : 8th line(STYPE=VALUE)
Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2 : 9th line(STYPE=VALUE)
OPT1, OPT2, [JOINT] : 2nd line(STYPE=PSC)
ELAST, DEN, POIS, POIC : 2nd line(STYPE=PSC-CMPW)
bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE : 3rd line(STYPE=PSC-CMPW)
bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] : 3rd line(STYPE=PSC-CMPW)
bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J] : 4th line(STYPE=PSC)
[SIZE-A]-I : 5th line(STYPE=PSC)
[SIZE-B]-I : 6th line(STYPE=PSC)
[SIZE-C]-I : 7th line(STYPE=PSC)
[SIZE-D]-I : 8th line(STYPE=PSC)
[SIZE-A]-J : 9th line(STYPE=PSC)
[SIZE-B]-J : 10th line(STYPE=PSC)
[SIZE-C]-J : 11th line(STYPE=PSC)
[SIZE-D]-J : 12th line(STYPE=PSC)
GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S : 2nd line(STYPE=CMP-B/I)
SW_I, Hw_I, tw_I, B_I, B1_I, t1_I, B2_I, B12_I, t12_I : 3rd line(STYPE=CMP-B/I)
SW_J, Hw_J, tw_J, B_J, B1_J, t1_J, B2_J, B12_J, t12_J : 4th line(STYPE=CMP-B/I)
N1, N2, Hr, Hr2, tr1, tr2 : 5th line(STYPE=CMP-B)
GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_I, SW_J : 2nd line(STYPE=CMP-CI/CT)
OPT1, OPT2, [JOINT] : 3rd line(STYPE=CMP-CI/CT)
[SIZE-A]-I : 4th line(STYPE=CMP-CI/CT)
[SIZE-B]-I : 5th line(STYPE=CMP-CI/CT)
[SIZE-C]-I : 6th line(STYPE=CMP-CI/CT)
[SIZE-D]-I : 7th line(STYPE=CMP-CI/CT)
[SIZE-A]-J : 8th line(STYPE=CMP-CI/CT)
[SIZE-B]-J : 9th line(STYPE=CMP-CI/CT)
[SIZE-C]-J : 10th line(STYPE=CMP-CI/CT)
[SIZE-D]-J : 11th line(STYPE=CMP-CI/CT)
ISEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2 : 1st line - CONSTRUCT
SHAPE, ...(same with other type data from shape) : Before (STYPE1)
SHAPE, ...(same with other type data from shape) : After (STYPE2)
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE : 1st line - COMPOSITE-SB
Hw, tw, B, B1, t1, B2, B12, t12 : 2nd line
N1, N2, Hr, Hr2, tr1, tr2 : 3rd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh : 4th line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE : 1st line - COMPOSITE-SI
Hw, tw, B, t1, B2, t12 : 2nd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh : 3rd line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE : 1st line - COMPOSITE-CI/CT
OPT1, OPT2, [JOINT] : 2nd line
[SIZE-A] : 3rd line
[SIZE-B] : 4th line
[SIZE-C] : 5th line
[SIZE-D] : 6th line
SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb : 7th line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE : 1st line - PSC
OPT1, OPT2, [JOINT] : 2nd line
bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE : 3rd line
bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] : 4th line
[SIZE-A] : 5th line
[SIZE-B] : 6th line
[SIZE-C] : 7th line
[SIZE-D] : 8th line
[DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
[DATA2] : CCSHAPE or ICEL or iN1, iN2
[SRCL] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, iN1, iN2
[DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
[OFFSET] : OFFSET, iCENT, iREF, iHORZ, iUSER, iVERT, iVUSER
[OFFSET2] : OFFSET, iCENT, iREF, iHORZ, iUSER, iUSERJ, iVERT, iVUSER, iUSERJ
[JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
[SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
[SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
[SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
[SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
[STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
[SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
[WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
[CMPWEB] : EFD, LRF, A, B, H, T
1, VALUE , 단위1 , CC, 0, 0, 0, 0, 0, 0, YES, B , BUILT, 2.3, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.282585, 0.06, 0.0552, 0.206695, 0.249081, 0.365527
1.256, 1.256, 1.15, 1.15, 2.07752, 2.2181, 9.576, 9.528, 1.256, 1.15
-1.256, 1.244, 1.244, -1.256, 1.15, 1.15, -1.15, -1.15, 0.0997211, 0.10578
2, VALUE , 단위2 , CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.287385, 0.06, 0.06, 0.232147, 0.296477, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
3, VALUE , 단위3 , CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.014, 0, 0, 0

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0.292865, 0.065, 0.06, 0.242859, 0.317872, 0.376528
1.256, 1.256, 1.29925, 1.20075, 2.44507, 2.22293, 9.976, 9.924, 1.256, 1.20075
-1.256, 1.244, 1.244, -1.256, 1.29925, 1.29925, -1.20075, -1.20075, 0.117294, 0.114845
4, VALUE 단면4 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.295785, 0.06, 0.06, 0.232147, 0.326162, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
5, VALUE 단면5 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.287385, 0.06, 0.06, 0.232147, 0.324004, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
6, VALUE 단면6 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.016, 0, 0, 0
0.298345, 0.07, 0.06, 0.251585, 0.363207, 0.379956
1.256, 1.256, 1.34465, 1.15535, 2.5613, 2.11941, 9.976, 9.92, 1.256, 1.15535
-1.256, 1.244, 1.244, -1.256, 1.34465, 1.34465, -1.15535, -1.15535, 0.122643, 0.11791
7, VALUE 단면7 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
0.292865, 0.07, 0.06, 0.233148, 0.297996, 0.376528
1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
8, VALUE 단면8 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
0.301265, 0.07, 0.06, 0.233148, 0.328006, 0.376528
1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
9, VALUE 단면9 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.5, 2.5, 0.012, 0.022, 2.5, 0.012, 0, 0, 0
0.314785, 0.085, 0.06, 0.236545, 0.333134, 0.390242
1.256, 1.256, 1.03826, 1.46174, 2.87054, 1.88193, 9.976, 9.908, 1.256, 1.46174
-1.256, 1.244, 1.244, -1.256, 1.03826, 1.03826, -1.46174, -1.46174, 0.135567, 0.127105
10, VALUE 단면10 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.566, 2.5, 0.012, 0.03, 2.5, 0.02, 0, 0, 0
0.360209, 0.125, 0.061584, 0.283145, 0.446475, 0.420168
1.256, 1.256, 1.11498, 1.45102, 4.02603, 1.54719, 10.108, 10.008, 1.256, 1.45102
-1.256, 1.244, 1.244, -1.256, 1.11498, 1.11498, -1.45102, -1.45102, 0.190346, 0.153605
11, VALUE 단면11 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.678, 2.5, 0.014, 0.038, 2.5, 0.028, 0, 0, 0
0.417701, 0.165, 0.074984, 0.363419, 0.600187, 0.469322
1.257, 1.257, 1.20343, 1.47457, 4.69771, 1.48648, 10.328, 10.196, 1.257, 1.47457
-1.257, 1.243, 1.243, -1.257, 1.20343, 1.20343, -1.47457, -1.47457, 0.260452, 0.194545
12, VALUE 단면12 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.82, 2.5, 0.014, 0.038, 2.5, 0.036, 0, 0, 0
0.443345, 0.185, 0.07896, 0.401247, 0.748813, 0.48892
1.257, 1.257, 1.38408, 1.43592, 5.53749, 1.44305, 10.612, 10.464, 1.257, 1.43592
-1.257, 1.243, 1.243, -1.257, 1.38408, 1.38408, -1.43592, -1.43592, 0.30999, 0.211735
13, VALUE 단면13 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.036, 2.5, 0.028, 0, 0, 0
0.420985, 0.16, 0.084, 0.404782, 0.747042, 0.479741
1.257, 1.257, 1.38014, 1.61986, 5.28166, 1.59733, 10.972, 10.844, 1.257, 1.61986
-1.257, 1.243, 1.243, -1.257, 1.38014, 1.38014, -1.61986, -1.61986, 0.294249, 0.20276
14, VALUE 단면14 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.028, 2.5, 0.02, 0, 0, 0
0.377145, 0.12, 0.084, 0.38522, 0.626664, 0.452313
1.257, 1.257, 1.35597, 1.64403, 4.23666, 1.8723, 10.972, 10.876, 1.257, 1.64403
-1.257, 1.243, 1.243, -1.257, 1.35597, 1.35597, -1.64403, -1.64403, 0.236029, 0.17832
15, VALUE 단면15 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
0.333305, 0.08, 0.084, 0.333561, 0.502613, 0.424886
1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
-1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
16, VALUE 단면16 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
0.341705, 0.08, 0.084, 0.333561, 0.506139, 0.424886
1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
-1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
17, VALUE 단면17 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.02, 0, 0, 0
0.333305, 0.08, 0.084, 0.374112, 0.562713, 0.424886
1.257, 1.257, 1.67993, 1.32007, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.32007
-1.257, 1.243, 1.243, -1.257, 1.67993, 1.67993, -1.32007, -1.32007, 0.177492, 0.15388
18, VALUE 단면18 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.028, 0, 0, 0
0.382625, 0.125, 0.084, 0.406464, 0.685124, 0.455742
1.257, 1.257, 1.60538, 1.39462, 4.38537, 1.82831, 10.972, 10.872, 1.257, 1.39462
-1.257, 1.243, 1.243, -1.257, 1.60538, 1.60538, -1.39462, -1.39462, 0.244869, 0.181375
19, VALUE 단면19 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.034, 0, 0, 0
0.399065, 0.14, 0.084, 0.418609, 0.755459, 0.466027
1.257, 1.257, 1.69631, 1.30369, 4.71208, 1.71518, 10.972, 10.86, 1.257, 1.30369
-1.257, 1.243, 1.243, -1.257, 1.69631, 1.69631, -1.30369, -1.30369, 0.260764, 0.19054
20, VALUE 단면20 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
0.316865, 0.065, 0.084, 0.343502, 0.482038, 0.4146
1.257, 1.257, 1.54958, 1.45042, 2.83592, 2.80296, 10.972, 10.92, 1.257, 1.45042
-1.257, 1.243, 1.243, -1.257, 1.54958, 1.54958, -1.45042, -1.45042, 0.15877, 0.144715
21, VALUE 단면21 CC, 0, 0, 0, 0, 0, YES, B , BUILT, 2.8, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
0.311265, 0.065, 0.0784, 0.312789, 0.416181, 0.405752
1.257, 1.257, 1.44806, 1.35194, 2.57621, 2.6676, 10.572, 10.52, 1.257, 1.35194
-1.257, 1.243, 1.243, -1.257, 1.44806, 1.44806, -1.35194, -1.35194, 0.144222, 0.137715
22, VALUE CB CC, 0, 0, 0, 0, 0, YES, H , BUILT, 1.75, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0
0.0282, 0.006, 0.021, 1.3536e-006, 0.010978, 5.4252e-005
0.15, 0.15, 0.875, 0.875, 0.633084, 0.01125, 4.652, 0, 0.15, 0.875
-0.15, 0.15, 0.15, -0.15, 0.875, 0.875, -0.875, -0.875, 0.015194, 0.000602136

```

*SECT-COLOR

: ISEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT

```

1, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
2, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
3, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
4, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
5, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
6, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
7, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
8, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
9, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
10, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
11, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
12, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
13, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
14, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
15, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
16, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
17, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
18, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
19, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
20, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
21, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
22, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5

```

*DGN-SECT

```

: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st line - DB/USER
: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, DT, ..., D8, ICLE ; 1st line - VALUE
: AREA, ASy, ASz, lxx, lyy, lzz ; 2nd line
: CyP, CyM, CzP, CyB, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz ; 3rd line
: Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz ; 4th line

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ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF          : 1st line - SRC
D1, D2, [SRC]                                                                : 2nd line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2      : 1st line - COMBINED
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
ISEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE
DB, NAME1, NAME2                                                            : 1st line - TAPERED
[DIM1], [DIM2]                                                              : 2nd line(STYPE=DB)
D11, D12, D13, D14, D15, D16, D17, D18                                     : 2nd line(STYPE=USER)
AREA1, ASy1, ASz1, lxx1, lyy1, lzz1                                         : 2nd line(STYPE=VALUE)
CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1           : 3rd line(STYPE=VALUE)
Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2                         : 4th line(STYPE=VALUE)
D21, D22, D23, D24, D25, D26, D27, D28                                       : 5th line(STYPE=VALUE)
AREA2, ASy2, ASz2, lxx2, lyy2, lzz2                                         : 6th line(STYPE=VALUE)
CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2         : 7th line(STYPE=VALUE)
Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2                         : 8th line(STYPE=VALUE)
OPT1, OPT2, [JOINT]                                                         : 9th line(STYPE=PSC)
ELAST, DEN, POIS, POIC                                                       : 2nd line(STYPE=PSC-CMPW)
bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE     : 3rd line(STYPE=PSC)
bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]                           : 3rd line(STYPE=PSC-CMPW)
bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J]          : 4th line(STYPE=PSC)
[SIZE-A]                                                                    : 5th line(STYPE=PSC)
[SIZE-B]                                                                    : 6th line(STYPE=PSC)
[SIZE-C]                                                                    : 7th line(STYPE=PSC)
[SIZE-D]                                                                    : 8th line(STYPE=PSC)
[SIZE-A]                                                                    : 9th line(STYPE=PSC)
[SIZE-B]                                                                    : 10th line(STYPE=PSC)
[SIZE-C]                                                                    : 11th line(STYPE=PSC)
[SIZE-D]                                                                    : 12th line(STYPE=PSC)
GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S          : 2nd line(STYPE=CMP-B/I)
SW_I, HW_I, tw_I, B_I, Bf1_I, tf1_I, B2_I, Bf2_I, tf2_I                    : 3rd line(STYPE=CMP-B/I)
SW_J, HW_J, tw_J, B_J, Bf1_J, tf1_J, B2_J, Bf2_J, tf2_J                    : 4th line(STYPE=CMP-B/I)
N1, N2, Hr, Hr2, tr1, tr2                                                  : 5th line(STYPE=CMP-B)
GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_I, SW_J          : 2nd line(STYPE=CMP-CI/CT)
OPT1, OPT2, [JOINT]                                                         : 3rd line(STYPE=CMP-CI/CT)
[SIZE-A]                                                                    : 4th line(STYPE=CMP-CI/CT)
[SIZE-B]                                                                    : 5th line(STYPE=CMP-CI/CT)
[SIZE-C]                                                                    : 6th line(STYPE=CMP-CI/CT)
[SIZE-D]                                                                    : 7th line(STYPE=CMP-CI/CT)
[SIZE-A]                                                                    : 8th line(STYPE=CMP-CI/CT)
[SIZE-B]                                                                    : 9th line(STYPE=CMP-CI/CT)
[SIZE-C]                                                                    : 10th line(STYPE=CMP-CI/CT)
[SIZE-D]                                                                    : 11th line(STYPE=CMP-CI/CT)
ISEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2                          : 1st line - CONSTRUCT
SHAPE, ... (same with other type data from shape)                         : Before (STYPE1)
SHAPE, ... (same with other type data from shape)                         : After (STYPE2)
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    : 1st line - COMPOSITE-SB
Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                         : 2nd line
N1, N2, Hr, Hr2, tr1, tr2                                                  : 3rd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh           : 4th line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    : 1st line - COMPOSITE-SI
Hw, tw, B, tf1, B2, tf2                                                    : 2nd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh           : 3rd line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    : 1st line - COMPOSITE-CI/CT
OPT1, OPT2, [JOINT]                                                         : 2nd line
[SIZE-A]                                                                    : 3rd line
[SIZE-B]                                                                    : 4th line
[SIZE-C]                                                                    : 5th line
[SIZE-D]                                                                    : 6th line
SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb                        : 7th line
ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    : 1st line - PSC
OPT1, OPT2, [JOINT]                                                         : 2nd line
bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                          : 3rd line
bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF]                      : 4th line
[SIZE-A]                                                                    : 5th line
[SIZE-B]                                                                    : 6th line
[SIZE-C]                                                                    : 7th line
[SIZE-D]                                                                    : 8th line
[DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
[DATA2] : CSHAPE or ICEL or IN1, IN2
[SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, IN1, IN2
[DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
[OFFSET] : OFFSET, ICENT, IREF, IHORZ, HUSER, IVERT, VUSER
[OFFSET2] : OFFSET, ICENT, IREF, IHORZ, HUSERI, HUSERJ, IVERT, VUSERI, VUSERJ
[JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCELL2)
[SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCELL2)
[SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCELL2)
[SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCELL2)
[SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCELL2)
[STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
[SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
[WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
[CMPWEB] : EFD, LRF, A, B, H, T
1, VALUE, 단면1, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.3, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.282585, 0.06, 0.0552, 0.206695, 0.249081, 0.365527
1.256, 1.256, 1.15, 1.15, 2.07752, 2.2181, 9.576, 9.528, 1.256, 1.15
-1.256, 1.244, 1.244, -1.256, 1.15, 1.15, -1.15, -1.15, 0.0997211, 0.10578
2, VALUE, 단면2, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.287385, 0.06, 0.06, 0.232147, 0.296477, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
3, VALUE, 단면3, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.014, 0, 0, 0
0.292865, 0.065, 0.06, 0.242859, 0.317872, 0.376528
1.256, 1.256, 1.29925, 1.20075, 2.44507, 2.22293, 9.976, 9.924, 1.256, 1.20075
-1.256, 1.244, 1.244, -1.256, 1.29925, 1.29925, -1.20075, -1.20075, 0.117294, 0.114845
4, VALUE, 단면4, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.295785, 0.06, 0.06, 0.232147, 0.326162, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
5, VALUE, 단면5, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
0.287385, 0.06, 0.06, 0.232147, 0.324004, 0.373099
1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
6, VALUE, 단면6, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.016, 0, 0, 0
0.298345, 0.07, 0.06, 0.251585, 0.363207, 0.379956
1.256, 1.256, 1.34465, 1.15535, 2.5613, 2.11941, 9.976, 9.92, 1.256, 1.15535
-1.256, 1.244, 1.244, -1.256, 1.34465, 1.34465, -1.15535, -1.15535, 0.122643, 0.11791
7, VALUE, 단면7, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
0.292865, 0.07, 0.06, 0.233148, 0.297996, 0.376528
1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25

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-1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
8, VALUE, 단면8, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
0.301265, 0.07, 0.06, 0.233148, 0.328006, 0.376528
1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
9, VALUE, 단면9, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.5, 2.5, 0.012, 0.022, 2.5, 0.012, 0, 0, 0
0.314785, 0.085, 0.06, 0.236545, 0.333134, 0.390242
1.256, 1.256, 1.03826, 1.46174, 2.87054, 1.88193, 9.976, 9.908, 1.256, 1.46174
10, VALUE, 단면10, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.566, 2.5, 0.012, 0.03, 2.5, 0.02, 0, 0, 0
-1.256, 1.244, 1.244, -1.256, 1.03826, 1.03826, -1.46174, -1.46174, 0.135567, 0.127105
0.360209, 0.125, 0.061584, 0.283145, 0.446475, 0.420168
1.256, 1.256, 1.11498, 1.45102, 4.02603, 1.54719, 10.108, 10.008, 1.256, 1.45102
11, VALUE, 단면11, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.678, 2.5, 0.014, 0.038, 2.5, 0.028, 0, 0, 0
-1.256, 1.244, 1.244, -1.256, 1.11498, 1.11498, -1.45102, -1.45102, 0.190346, 0.153605
0.417701, 0.165, 0.074984, 0.363419, 0.600187, 0.469322
1.257, 1.257, 1.20343, 1.47457, 4.69771, 1.48648, 10.328, 10.196, 1.257, 1.47457
12, VALUE, 단면12, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.82, 2.5, 0.014, 0.038, 2.5, 0.036, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.20343, 1.20343, -1.47457, -1.47457, 0.260452, 0.194545
0.443345, 0.185, 0.07896, 0.401247, 0.748813, 0.48892
1.257, 1.257, 1.38408, 1.43592, 5.53749, 1.44305, 10.612, 10.464, 1.257, 1.43592
13, VALUE, 단면13, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.036, 2.5, 0.028, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.38408, 1.38408, -1.43592, -1.43592, 0.30999, 0.211735
0.420985, 0.16, 0.084, 0.404782, 0.747042, 0.479741
1.257, 1.257, 1.38014, 1.61986, 5.28166, 1.59733, 10.972, 10.844, 1.257, 1.61986
14, VALUE, 단면14, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.028, 2.5, 0.02, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.38014, 1.38014, -1.61986, -1.61986, 0.294249, 0.20276
0.377145, 0.12, 0.084, 0.38522, 0.626664, 0.452313
1.257, 1.257, 1.35597, 1.64403, 4.23666, 1.8723, 10.972, 10.876, 1.257, 1.64403
15, VALUE, 단면15, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.35597, 1.35597, -1.64403, -1.64403, 0.236029, 0.17832
0.333305, 0.08, 0.084, 0.333561, 0.502613, 0.424886
1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
16, VALUE, 단면16, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
0.341705, 0.08, 0.084, 0.333561, 0.506139, 0.424886
1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
17, VALUE, 단면17, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.02, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
0.333305, 0.08, 0.084, 0.374112, 0.562713, 0.424886
1.257, 1.257, 1.67993, 1.32007, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.32007
18, VALUE, 단면18, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.028, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.67993, 1.67993, -1.32007, -1.32007, 0.177492, 0.15388
0.382625, 0.125, 0.084, 0.406464, 0.685124, 0.455742
1.257, 1.257, 1.60538, 1.39462, 4.38537, 1.82831, 10.972, 10.872, 1.257, 1.39462
19, VALUE, 단면19, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.034, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.60538, 1.60538, -1.39462, -1.39462, 0.244869, 0.181375
0.399065, 0.14, 0.084, 0.418609, 0.755459, 0.466027
1.257, 1.257, 1.69631, 1.30369, 4.71208, 1.71518, 10.972, 10.86, 1.257, 1.30369
20, VALUE, 단면20, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.69631, 1.69631, -1.30369, -1.30369, 0.260764, 0.19054
0.316865, 0.065, 0.084, 0.343502, 0.482038, 0.4146
1.257, 1.257, 1.54958, 1.45042, 2.83592, 2.80296, 10.972, 10.92, 1.257, 1.45042
21, VALUE, 단면21, CC, 0, 0, 0, 0, 0, 0, YES, B, BUILT, 2.8, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
-1.257, 1.243, 1.243, -1.257, 1.54958, 1.54958, -1.45042, -1.45042, 0.15877, 0.144715
0.311265, 0.065, 0.0784, 0.312789, 0.416181, 0.405752
1.257, 1.257, 1.44806, 1.35194, 2.57621, 2.6676, 10.572, 10.52, 1.257, 1.35194
22, VALUE, CB, CC, 0, 0, 0, 0, 0, 0, YES, H, BUILT, 1.75, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0
0.0282, 0.006, 0.021, 1.3536e-006, 0.0109478, 5.4252e-005
0.15, 0.15, 0.875, 0.875, 0.633084, 0.01125, 4.652, 0, 0.15, 0.875
-0.15, 0.15, 0.15, -0.15, 0.875, 0.875, -0.875, -0.875, 0.015194, 0.000602136
*STLDCASE : Static Load Cases
: LCNAME, LCTYPE, DESC
고정하중, USER,
T1 : USER,
T2 : USER,
T3 : USER,
T4 : USER,
*CONSTRAINT : Supports
: NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
61, 101000,
23, 111000,
39 49 76, 001000,
1 11 38, 011000,
*OFFSET : Beam End Offsets
: ELEM_LIST, TYPE, RGDxi, RGDYi, RGDZi, RGDxi, RGDYi, RGDZi, GROUP : TYPE=GLOBAL
: ELEM_LIST, TYPE, RGDj, RGDj, GROUP : TYPE=ELEMENT
75, ELEMENT, 1, 25, 1, 25,
76, ELEMENT, 1, 25, 1, 25,
77, ELEMENT, 1, 25, 1, 25,
78, ELEMENT, 1, 25, 1, 25,
79, ELEMENT, 1, 25, 1, 25,
80, ELEMENT, 1, 25, 1, 25,
81, ELEMENT, 1, 25, 1, 25,
82, ELEMENT, 1, 25, 1, 25,
83, ELEMENT, 1, 25, 1, 25,
84, ELEMENT, 1, 25, 1, 25,
85, ELEMENT, 1, 25, 1, 25,
86, ELEMENT, 1, 25, 1, 25,
87, ELEMENT, 1, 25, 1, 25,
88, ELEMENT, 1, 25, 1, 25,
89, ELEMENT, 1, 25, 1, 25,
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92, ELEMENT, 1, 25, 1, 25,
93, ELEMENT, 1, 25, 1, 25,
94, ELEMENT, 1, 25, 1, 25,
95, ELEMENT, 1, 25, 1, 25,
96, ELEMENT, 1, 25, 1, 25,
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99, ELEMENT, 1, 25, 1, 25,
100, ELEMENT, 1, 25, 1, 25,
101, ELEMENT, 1, 25, 1, 25,
102, ELEMENT, 1, 25, 1, 25,
103, ELEMENT, 1, 25, 1, 25,
104, ELEMENT, 1, 25, 1, 25,
105, ELEMENT, 1, 25, 1, 25,
106, ELEMENT, 1, 25, 1, 25,

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[illegible]

[illegible]

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53, 1, 10, YES, 0, 0, YES, 0,
54, 1, 10, YES, 0, 0, YES, 0,
55, 1, 10, YES, 0, 0, YES, 0,
56, 1, 10, YES, 0, 0, YES, 0,
57, 1, 10, YES, 0, 0, YES, 0,
58, 1, 10, YES, 0, 0, YES, 0,
59, 1, 10, YES, 0, 0, YES, 0,
60, 1, 10, YES, 0, 0, YES, 0,
61, 1, 10, YES, 0, 0, YES, 0,
62, 1, 10, YES, 0, 0, YES, 0,
63, 1, 10, YES, 0, 0, YES, 0,
64, 1, 10, YES, 0, 0, YES, 0,
65, 1, 10, YES, 0, 0, YES, 0,
66, 1, 10, YES, 0, 0, YES, 0,
67, 1, 10, YES, 0, 0, YES, 0,
68, 1, 10, YES, 0, 0, YES, 0,
69, 1, 10, YES, 0, 0, YES, 0,
70, 1, 10, YES, 0, 0, YES, 0,
71, 1, 10, YES, 0, 0, YES, 0,
72, 1, 10, YES, 0, 0, YES, 0,
73, 1, 10, YES, 0, 0, YES, 0,
74, 1, 10, YES, 0, 0, YES, 0,
: End of data for load case [T1] -----
*USE-STLD, T2
*THEGRAD, : Temperature Gradient
: ELEM_LIST, IETYP, TZ, bUSEHZ, HZ, TY, bUSEHY, HY, GROUP
: ELEM_LIST, IETYP, TZ, bUSEHZ, HZ, GROUP
1, 1, -10, YES, 0, 0, YES, 0,
2, 1, -10, YES, 0, 0, YES, 0,
3, 1, -10, YES, 0, 0, YES, 0,
4, 1, -10, YES, 0, 0, YES, 0,
5, 1, -10, YES, 0, 0, YES, 0,
6, 1, -10, YES, 0, 0, YES, 0,
7, 1, -10, YES, 0, 0, YES, 0,
8, 1, -10, YES, 0, 0, YES, 0,
9, 1, -10, YES, 0, 0, YES, 0,
10, 1, -10, YES, 0, 0, YES, 0,
11, 1, -10, YES, 0, 0, YES, 0,
12, 1, -10, YES, 0, 0, YES, 0,
13, 1, -10, YES, 0, 0, YES, 0,
14, 1, -10, YES, 0, 0, YES, 0,
15, 1, -10, YES, 0, 0, YES, 0,
16, 1, -10, YES, 0, 0, YES, 0,
17, 1, -10, YES, 0, 0, YES, 0,
18, 1, -10, YES, 0, 0, YES, 0,
19, 1, -10, YES, 0, 0, YES, 0,
20, 1, -10, YES, 0, 0, YES, 0,
21, 1, -10, YES, 0, 0, YES, 0,
22, 1, -10, YES, 0, 0, YES, 0,
23, 1, -10, YES, 0, 0, YES, 0,
24, 1, -10, YES, 0, 0, YES, 0,
25, 1, -10, YES, 0, 0, YES, 0,
26, 1, -10, YES, 0, 0, YES, 0,
27, 1, -10, YES, 0, 0, YES, 0,
28, 1, -10, YES, 0, 0, YES, 0,
29, 1, -10, YES, 0, 0, YES, 0,
30, 1, -10, YES, 0, 0, YES, 0,
31, 1, -10, YES, 0, 0, YES, 0,
32, 1, -10, YES, 0, 0, YES, 0,
33, 1, -10, YES, 0, 0, YES, 0,
34, 1, -10, YES, 0, 0, YES, 0,
35, 1, -10, YES, 0, 0, YES, 0,
36, 1, -10, YES, 0, 0, YES, 0,
37, 1, -10, YES, 0, 0, YES, 0,
38, 1, -10, YES, 0, 0, YES, 0,
39, 1, -10, YES, 0, 0, YES, 0,
40, 1, -10, YES, 0, 0, YES, 0,
41, 1, -10, YES, 0, 0, YES, 0,
42, 1, -10, YES, 0, 0, YES, 0,
43, 1, -10, YES, 0, 0, YES, 0,
44, 1, -10, YES, 0, 0, YES, 0,
45, 1, -10, YES, 0, 0, YES, 0,
46, 1, -10, YES, 0, 0, YES, 0,
47, 1, -10, YES, 0, 0, YES, 0,
48, 1, -10, YES, 0, 0, YES, 0,
49, 1, -10, YES, 0, 0, YES, 0,
50, 1, -10, YES, 0, 0, YES, 0,
51, 1, -10, YES, 0, 0, YES, 0,
52, 1, -10, YES, 0, 0, YES, 0,
53, 1, -10, YES, 0, 0, YES, 0,
54, 1, -10, YES, 0, 0, YES, 0,
55, 1, -10, YES, 0, 0, YES, 0,
56, 1, -10, YES, 0, 0, YES, 0,
57, 1, -10, YES, 0, 0, YES, 0,
58, 1, -10, YES, 0, 0, YES, 0,
59, 1, -10, YES, 0, 0, YES, 0,
60, 1, -10, YES, 0, 0, YES, 0,
61, 1, -10, YES, 0, 0, YES, 0,
62, 1, -10, YES, 0, 0, YES, 0,
63, 1, -10, YES, 0, 0, YES, 0,
64, 1, -10, YES, 0, 0, YES, 0,
65, 1, -10, YES, 0, 0, YES, 0,
66, 1, -10, YES, 0, 0, YES, 0,
67, 1, -10, YES, 0, 0, YES, 0,
68, 1, -10, YES, 0, 0, YES, 0,
69, 1, -10, YES, 0, 0, YES, 0,
70, 1, -10, YES, 0, 0, YES, 0,
71, 1, -10, YES, 0, 0, YES, 0,
72, 1, -10, YES, 0, 0, YES, 0,
73, 1, -10, YES, 0, 0, YES, 0,
74, 1, -10, YES, 0, 0, YES, 0,
: End of data for load case [T2] -----
*USE-STLD, T3
*ELTEMPER, : Element Temperatures
: ELEM_LIST, TEMPER, GROUP
1, 10,
2, 10,
3, 10,
4, 10,

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5, 10.
6, 10.
7, 10.
8, 10.
9, 10.
10, 10.
11, 10.
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43, 10.
44, 10.
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62, 10.
63, 10.
64, 10.
65, 10.
66, 10.
67, 10.
68, 10.
69, 10.
70, 10.
71, 10.
72, 10.
73, 10.
74, 10.
; End of data for load case [T3] -----
*USE-STLD, T4
*ELTEMPER, ; Element Temperatures
; ELEM_LIST, TEMPER, GROUP
1, -10.
2, -10.
3, -10.
4, -10.
5, -10.
6, -10.
7, -10.
8, -10.
9, -10.
10, -10.
11, -10.
12, -10.
13, -10.
14, -10.
15, -10.
16, -10.
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18, -10.
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20, -10.
21, -10.
22, -10.
23, -10.
24, -10.
25, -10.
26, -10.
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29, -10.
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31, -10.
32, -10.
33, -10.
34, -10.
35, -10.

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36, -10,
37, -10,
38, -10,
39, -10,
40, -10,
41, -10,
42, -10,
43, -10,
44, -10,
45, -10,
46, -10,
47, -10,
48, -10,
49, -10,
50, -10,
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52, -10,
53, -10,
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61, -10,
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63, -10,
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67, -10,
68, -10,
69, -10,
70, -10,
71, -10,
72, -10,
73, -10,
74, -10,
; End of data for load case [T4] -----
*MLDCODE : Moving Load Code
; CODE=CODE
; CODE=KOREA
*LINELANE : Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW, WS : line 1
; IELEM1, ECC1, FACT1, bSPAN1 : from line 2
;
NAME=1차선(G1), LANE, 0, 0, BOTH, 3, 1.8
38, -0.6, 0.168, YES, 39, -0.6, 0.168, NO, 40, -0.6, 0.168, NO
41, -0.6, 0.168, NO, 42, -0.6, 0.168, NO, 43, -0.6, 0.168, NO
44, -0.6, 0.168, NO, 45, -0.6, 0.168, NO, 46, -0.6, 0.16, YES
47, -0.6, 0.16, NO, 48, -0.6, 0.16, NO, 49, -0.6, 0.16, NO
50, -0.6, 0.16, NO, 51, -0.6, 0.153, YES, 52, -0.6, 0.153, NO
53, -0.6, 0.153, NO, 54, -0.6, 0.153, NO, 55, -0.6, 0.153, NO
56, -0.6, 0.153, NO, 57, -0.6, 0.141, YES, 58, -0.6, 0.141, NO
59, -0.6, 0.141, NO, 60, -0.6, 0.141, NO, 61, -0.6, 0.141, NO
62, -0.6, 0.141, NO, 63, -0.6, 0.131, YES, 64, -0.6, 0.131, NO
65, -0.6, 0.131, NO, 66, -0.6, 0.131, NO, 67, -0.6, 0.131, NO
68, -0.6, 0.131, NO, 69, -0.6, 0.131, NO, 70, -0.6, 0.131, NO
71, -0.6, 0.131, NO, 72, -0.6, 0.131, NO, 73, -0.6, 0.131, NO
74, -0.6, 0.131, NO
NAME=1차선(G2), LANE, 0, 0, BOTH, 3, 1.8
1, 0.6, 0.168, YES, 2, 0.6, 0.168, NO, 3, 0.6, 0.168, NO
4, 0.6, 0.168, NO, 5, 0.6, 0.168, NO, 6, 0.6, 0.168, NO
7, 0.6, 0.168, NO, 8, 0.6, 0.168, NO, 9, 0.6, 0.16, YES
10, 0.6, 0.16, NO, 11, 0.6, 0.16, NO, 12, 0.6, 0.16, NO
13, 0.6, 0.16, NO, 14, 0.6, 0.153, YES, 15, 0.6, 0.153, NO
16, 0.6, 0.153, NO, 17, 0.6, 0.153, NO, 18, 0.6, 0.153, NO
19, 0.6, 0.153, NO, 20, 0.6, 0.141, YES, 21, 0.6, 0.141, NO
22, 0.6, 0.141, NO, 23, 0.6, 0.141, NO, 24, 0.6, 0.141, NO
25, 0.6, 0.141, NO, 26, 0.6, 0.131, YES, 27, 0.6, 0.131, NO
28, 0.6, 0.131, NO, 29, 0.6, 0.131, NO, 30, 0.6, 0.131, NO
31, 0.6, 0.131, NO, 32, 0.6, 0.131, NO, 33, 0.6, 0.131, NO
34, 0.6, 0.131, NO, 35, 0.6, 0.131, NO, 36, 0.6, 0.131, NO
37, 0.6, 0.131, NO
NAME=2차선(G1), CROSS, 가로보, 0, 0, BOTH, 3, 1.8
38, 2.4, 0.168, YES, 39, 2.4, 0.168, NO, 40, 2.4, 0.168, NO
41, 2.4, 0.168, NO, 42, 2.4, 0.168, NO, 43, 2.4, 0.168, NO
44, 2.4, 0.168, NO, 45, 2.4, 0.168, NO, 46, 2.4, 0.16, YES
47, 2.4, 0.16, NO, 48, 2.4, 0.16, NO, 49, 2.4, 0.16, NO
50, 2.4, 0.16, NO, 51, 2.4, 0.153, YES, 52, 2.4, 0.153, NO
53, 2.4, 0.153, NO, 54, 2.4, 0.153, NO, 55, 2.4, 0.153, NO
56, 2.4, 0.153, NO, 57, 2.4, 0.141, YES, 58, 2.4, 0.141, NO
59, 2.4, 0.141, NO, 60, 2.4, 0.141, NO, 61, 2.4, 0.141, NO
62, 2.4, 0.141, NO, 63, 2.4, 0.131, YES, 64, 2.4, 0.131, NO
65, 2.4, 0.131, NO, 66, 2.4, 0.131, NO, 67, 2.4, 0.131, NO
68, 2.4, 0.131, NO, 69, 2.4, 0.131, NO, 70, 2.4, 0.131, NO
71, 2.4, 0.131, NO, 72, 2.4, 0.131, NO, 73, 2.4, 0.131, NO
74, 2.4, 0.131, NO
NAME=2차선(G2), CROSS, 가로보, 0, 0, BOTH, 3, 1.8
1, -2.4, 0.168, YES, 2, -2.4, 0.168, NO, 3, -2.4, 0.168, NO
4, -2.4, 0.168, NO, 5, -2.4, 0.168, NO, 6, -2.4, 0.168, NO
7, -2.4, 0.168, NO, 8, -2.4, 0.168, NO, 9, -2.4, 0.16, YES
10, -2.4, 0.16, NO, 11, -2.4, 0.16, NO, 12, -2.4, 0.16, NO
13, -2.4, 0.16, NO, 14, -2.4, 0.153, YES, 15, -2.4, 0.153, NO
16, -2.4, 0.153, NO, 17, -2.4, 0.153, NO, 18, -2.4, 0.153, NO
19, -2.4, 0.153, NO, 20, -2.4, 0.141, YES, 21, -2.4, 0.141, NO
22, -2.4, 0.141, NO, 23, -2.4, 0.141, NO, 24, -2.4, 0.141, NO
25, -2.4, 0.141, NO, 26, -2.4, 0.131, YES, 27, -2.4, 0.131, NO
28, -2.4, 0.131, NO, 29, -2.4, 0.131, NO, 30, -2.4, 0.131, NO
31, -2.4, 0.131, NO, 32, -2.4, 0.131, NO, 33, -2.4, 0.131, NO
34, -2.4, 0.131, NO, 35, -2.4, 0.131, NO, 36, -2.4, 0.131, NO
37, -2.4, 0.131, NO
*VEHICLE : Vehicles
; if Moving Load Code is China
; NAME=NAME, 1, TYPE-NAME, CODE : standard
; NAME=NAME, 2, LTYPE, [TRUCK/LANE] or [TRAIN/SUBWAY] or [CROWD] : user: line 1
; LOAD1, DIST1, LOAD2, DIST2, ... : user: from line 2
; [TRUCK/LANE] : 1, P, Qm, Qq : truck(JTG)
; [TRUCK/LANE] : 2, P, Qm, Qq : lane load1

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[TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2 ; lane load2
[TRUCK/LANE] : 4, dW, dD ; crawler type
[TRUCK/LANE] : 5 ; GC type load
[TRAIN/SUBWAY] : ITYPE, W1, D1, W2, D2 ; train-type1,3
[TRAIN/SUBWAY] : ITYPE, DD, FD, BD, MAINCOUNT ; train-type2
[TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, D3, P4, dD, Po, n, IFR ; subway
[CROWD] : 1, dW1 ; crowd-type1
[CROWD] : 2, dW1, dL1, dW2, dL2, WIDTH ; crowd-type2
if Moving Load Type is India
NAME=NAME, 1, TYPE=NAME, CODE ; standard
NAME=NAME, 2, bWTB, P, D, Pb, Db, dD1, dD2, NDIST ; user: line 1
NAME=NAME, 2, bWTB, dD1, dD2, NDIST ; user: line 1
LOAD1, DIST1, LOAD2, DIST2, ... ; user: from line 2
if Moving Load Code is CANADA
NAME=NAME, 1, TYPE=NAME, DLA, CODE, [DYNA] ; standard
NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST, [DYNA] ; user: line 1
LOAD1, DIST1, LOAD2, DIST2, ... ; user: from line 2
[DYNA] : nDYNA, FACT1AXLE, FACT2AXLE, FACT3AXLE ; Dynamic Load Allowance
if Moving Load Code is BS
NAME=NAME, 1, TYPE=NAME, CODE, UNITNUM ; standard
NAME=nLane, FACTOR1, FACTOR2, FACTOR3, FACTOR4 ; HA, HA & HB, HA & HB(Auto)
NAME=NAME, 2, ISTYPE, W1, W2, W3, L, Pa, Pb, D1, D2, d, UNITNUM ; user(BS 5400)
NAME=NAME, 2, ISTYPE, [BD37/01-HA], [BD37/01-HB] ; user(BS BD37/01)
NAME=NAME, 2, ISTYPE, W, ; user(Pedestrian)
[BS-DATA-HA] : W1, W2, W3, EXP, L1, L2, Pa
[BS-DATA-HB] : Pb, D1, D2, d, UNITNUM
if Moving Load Code is EUROCODE
NAME=NAME, 1, ITYPE, TYPE=NAME, PSY1, PSY2, PHI, [AF7] ; standard (LM1, FLM1)
NAME=NAME, 1, ITYPE, TYPE=NAME, bDF, bU, PHI, PSY, ADJ, IN ; standard (others)
NAME=NAME, 2, 1, [AF7] ; user(Type 1)
[LOAD7] : D, PHI, TPSY, UPSY ; user(Type 1): line 2
NAME=NAME, 2, 2, ALP, TPSY, W, BET, LPSY, P1, D1, P2, D2, ... ; user(Type 2)
NAME=NAME, 2, 3 ; user(Type 3)
[LOADCASE1] ; user(Type 3): line 2
[LOADCASE2] ; user(Type 3): line 3
[LOADCASE3] ; user(Type 3): line 4
NAME=NAME, 2, 4, WS, V, AN, MINS, MAXS, DYF, UI, F, P1, D1, P2, D2, ... ; user(Type 4)
NAME=NAME, 2, 5, INT, bPHI1, PHI1, bPHI2, PHI2 ; user(Type 5)
[VEHICLE1] ; user(Type 5): line 2
[VEHICLE2] ; user(Type 5): line 3
[VEHICLE3] ; user(Type 5): line 4
[AF7] : TF1, TF2, TF3, UF1, UF2, UF3, UF4 ; adjustment factor
[LOAD7] : TL1, TL2, TL3, UL1, UL2, UL3, UL4 ; tandem/udl loads
[LOADCASE] : bUSE, N, bDF, bUI, PHI, P1, L1, P2, L2, ... ; load case
[VEHICLE] : bUSE, N, P1, L1, P2, L2, ... ; vehicle
if Moving Load Code is RUSSIA
NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC ; standard (SK)
NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC ; standard (SK FATIGUE)
NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC ; standard (AK)
NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC ; standard (N14)
NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC ; standard (N11)
NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC ; standard (SUBWAY TRAINS)
NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC ; standard (TRAMCARS)
NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC ; standard (NK-80)
NAME=NAME, 1, ITYPE, W, D, nDYNAFAC, dDYNAFAC ; standard (NG-60)
NAME=NAME, 1, ITYPE, BRIDGETYPE, W ; standard (UNIFORM LOAD)
NAME=NAME, 1, ITYPE, BRIDGETYPE, W ; standard (UNIFORM LOAD(W/O OTHER LOADS))
NAME=NAME, 1, ITYPE, BRIDGETYPE, P ; standard (CONCENTRATED LOAD (W/O OTHER LOADS))
NAME=NAME, 2, ITYPE, W, nDYNAFAC, dDYNAFAC ; user (Type 1)
NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC ; user (Type 2)
NAME=NAME, 2, ITYPE, Variable, nDYNAFAC, dDYNAFAC ; user (Type 3)
NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC ; user (Type 4)
NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC ; user (Type 5)
NAME=NAME, 2, ITYPE, W, D, nDYNAFAC, dDYNAFAC ; user (Type 6)
NAME=NAME, 2, ITYPE, P, W ; user (Type 7)
if Moving Load Code is KSCE-LSD12
NAME=NAME, 1, TYPE=NAME, nLANETYPE, dDYNAFAC, CODE ; standard
NAME=NAME, 2, W1 ; user: line 1
LOAD1, DIST1, LOAD2, DIST2, ... ; user: from line 2
if Moving Load Code is AASHTO LRFD, CANADA and Load Type is Permit Truck
NAME=NAME, 3, AXLE-TYPE=NUM, IMP-FACTOR ; user(Permit Truck)
AXLE-TYPE=NAME1, bEDWL1, bSV1, P1, D1, P2, D2, ..., Pn, Dn ; user(from line 2)
AXLE-TYPE=NAMEn, bEDWLn, bSVn, P1, D1, P2, D2, ..., Pn, Dn
AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2, SPACING2, bVS2 ... ; line 2+AXLE-TYPE=NUM
if Moving Load Code is not one of those specified above.
NAME=NAME, 1, TYPE=NAME, DLA, CODE ; standard
NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST ; user: line 1
LOAD1, DIST1, LOAD2, DIST2, ... ; user: from line 2
NAME=DB-24, 1, DB-24, 0, KS-RB
NAME=DL-24, 1, DL-24, 0, KS-RB
*MLDCASE : Moving Load Cases
NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC ; 1st line
nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4 ; 2st line
TYPE1, VCLASS1, SCALE1, IMIN1, IMAX1, LANE11, LANE12, ... ; 3rd line
; ... ; n+1th line
TYPEEn, VCLASSn, SCALEn, IMINn, IMAXn, LANEn1, LANEn2, ...
NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN, SCALE, DESC ; Permit
NAME=MV, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT,
1, 1, 1, 1, 0.5, 0.25
VL, DB-24, 1, 1, 2, 1차선(G1), 2차선(G1)
VL, DB-24, 1, 1, 2, 1차선(G2), 2차선(G2)
VL, DL-24, 1, 1, 2, 1차선(G1), 2차선(G1)
VL, DL-24, 1, 1, 2, 1차선(G2), 2차선(G2)
*SM-GROUP : Settlement Group
: GRNAME, DISPLACEMENT, NODE_LIST
A1, 0.01, 1 39
P1, 0.01, 11 49
P2, 0.01, 23 61
A2, 0.01, 38 76
*SMLDCASE : Settlement Load Cases
: NAME=NAME, iSMIN, iSMAX, SCALE, DESC ; line 1
: GRNAME1, GRNAME2, ... ; from line 2
NAME=SM, 1, 4, 1,
A1, P1, P2, A2
*LOADCOMB : Combinations
: NAME=NAME, KIND, ACTIVE, bES, ITYPE, DESC, iSERV-TYPE, nLCOMTYPE ; line 1
: ANAL1, LCNAME1, FACT1, ... ; from line 2
NAME=T, GEN, ACTIVE, 0, 1, , 0, 0

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      ST, T1, 1, ST, T2, 1, ST, T3, 1, ST, T4, 1
*LC-COLOR      : Diagram Color for Load Case
: ANAL, LCNAME, IR1(ALL), IG1(ALL), IB1(ALL), IR2(MIN), IG2(MIN), IB2(MIN), IR3(MAX), IG2(MAX), IB2(MAX)
ST, 고려하중, 0, 128, 192, 192, 128, 0, 255, 255, 87
SM, SM, 0, 157, 192, 255, 87, 128, 192, 128, 0
ST, T1, 192, 0, 128, 192, 192, 128, 192, 255, 87, 128
MV, MV, 78, 0, 255, 93, 255, 87, 128, 192, 0
ST, T2, 0, 128, 192, 255, 87, 87, 210, 210, 210
ST, T3, 255, 87, 128, 0, 128, 128, 192, 192, 0
ST, T4, 148, 0, 255, 255, 255, 87, 85, 0, 192
CB, T, 148, 87, 255, 0, 157, 192, 0, 157, 192
*DGN-MATL      : Modify Steel(Concrete) Material
: IMAT, TYPE, MNAME, [DATA1], [R-DATA], FCI, bSERV, SHORT, LONG : STEEL
: IMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT, LONG : CONC
: IMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA] : SRC
: IMAT, TYPE, MNAME, [DATA5] : STEEL(None) & KSCE-ASD05
[DATA1] : 1, DB, CODE, NAME or 2, ELAST, POISN, FU, FY1, FY2, FY3, FY4
: FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
[DATA2] : 1, DB, CODE, NAME or 2, FC, CHK, LAMBDA
[DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1, FY2, FY3, FY4
: FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
[DATA4] : 1, DB, CODE, NAME or 2, FC
[DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5, AL6, AL7, AL8, AL9, AL10
: MIN1, MIN2, MIN3
[R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
: 1, STEEL, SM490 : KS-Civil(S), .SM490
*SECTION MANAGER-GROUP & PART : Section Manager - Group & Part
: SECT = NO, bSAMEJ : line 1
: GRPDJSIZE, GRPDJSIZE, PARTJSIZE, PARTJSIZE : line 2
: LOOP UTIL (GRPDJSIZE, GRPDJSIZE) : line n
: GROUPID, GROUPNAME, GROUPTYPE : line n
: LOOP UTIL (PARTJSIZE, PARTJSIZE) : line n
: PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER : line n
: LINESIZE, LINEINDEX[i]..... : line n
: SECT=1, YES
0, 0, 0, 0
: SECT=2, YES
0, 0, 0, 0
: SECT=3, YES
0, 0, 0, 0
: SECT=4, YES
0, 0, 0, 0
: SECT=5, YES
0, 0, 0, 0
: SECT=6, YES
0, 0, 0, 0
: SECT=7, YES
0, 0, 0, 0
: SECT=8, YES
0, 0, 0, 0
: SECT=9, YES
0, 0, 0, 0
: SECT=10, YES
0, 0, 0, 0
: SECT=11, YES
0, 0, 0, 0
: SECT=12, YES
0, 0, 0, 0
: SECT=13, YES
0, 0, 0, 0
: SECT=14, YES
0, 0, 0, 0
: SECT=15, YES
0, 0, 0, 0
: SECT=16, YES
0, 0, 0, 0
: SECT=17, YES
0, 0, 0, 0
: SECT=18, YES
0, 0, 0, 0
: SECT=19, YES
0, 0, 0, 0
: SECT=20, YES
0, 0, 0, 0
: SECT=21, YES
0, 0, 0, 0
: SECT=22, YES
0, 0, 0, 0
*SECTION MANAGER-STIFFENER : Section Manager - Stiffener
: SECT = NO, bSAMEJ : line 1
: STFNJSIZE, STFNJSIZE : line 2
: LOOP UTIL (STFNJSIZE, STFNJSIZE) : line n
: TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC : line n
: STIFFTYPE, dSIZE(0 ~ 20) : line n
: LINESIZE, LINEINDEX[i]..... : line n
: SECT=1, YES
0, 0
: SECT=2, YES
0, 0
: SECT=3, YES
0, 0
: SECT=4, YES
0, 0
: SECT=5, YES
0, 0
: SECT=6, YES
0, 0
: SECT=7, YES
0, 0
: SECT=8, YES
0, 0
: SECT=9, YES
0, 0
: SECT=10, YES
0, 0

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0, 0  
SECT=11, YES  
0, 0  
SECT=12, YES  
0, 0  
SECT=13, YES  
0, 0  
SECT=14, YES  
0, 0  
SECT=15, YES  
0, 0  
SECT=16, YES  
0, 0  
SECT=17, YES  
0, 0  
SECT=18, YES  
0, 0  
SECT=19, YES  
0, 0  
SECT=20, YES  
0, 0  
SECT=21, YES  
0, 0  
SECT=22, YES  
0, 0  
*ENDDATA
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※ 자세한 입력자료 및 출력자료는 CD참조