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: MIDAS/Civil Text(MCT) File.
: Date : 2018/2/2
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*VERSION
8.7.0

*UNIT : Unit System
: FORCE, LENGTH, HEAT, TEMPER
KN , M, J, C

*REBAR-MATL-CODE : Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KSCE-LSD15(RC), SD300, KSCE-LSD15(RC), SD300

*NODE : Nodes
: iNO, X, Y, Z
1, 0, 0, 0
2, 0.35, 0, 0
3, 0.55, 0, 0
4, 3.05, 0, 0
5, 4.825, 0, 0
6, 5.025, 0, 0
7, 5.15, 0, 0
8, 5.275, 0, 0
9, 5.475, 0, 0
10, 9.525, 0, 0
11, 9.725, 0, 0
12, 9.85, 0, 0
13, 9.975, 0, 0
14, 10.175, 0, 0
15, 14.225, 0, 0
16, 14.425, 0, 0
17, 14.55, 0, 0
18, 14.675, 0, 0
19, 14.875, 0, 0
20, 16.65, 0, 0
21, 19.15, 0, 0
22, 19.35, 0, 0
23, 19.7, 0, 0
24, 0, 1.65, 0
25, 0.35, 1.65, 0
26, 0.55, 1.65, 0
27, 3.05, 1.65, 0
28, 4.825, 1.65, 0
29, 5.025, 1.65, 0
30, 5.15, 1.65, 0
31, 5.275, 1.65, 0
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32, 5.475, 1.65, 0
33, 9.525, 1.65, 0
34, 9.725, 1.65, 0
35, 9.85, 1.65, 0
36, 9.975, 1.65, 0
37, 10.175, 1.65, 0
38, 14.225, 1.65, 0
39, 14.425, 1.65, 0
40, 14.55, 1.65, 0
41, 14.675, 1.65, 0
42, 14.875, 1.65, 0
43, 16.65, 1.65, 0
44, 19.15, 1.65, 0
45, 19.35, 1.65, 0
46, 19.7, 1.65, 0
47, 0, 3.3, 0
48, 0.35, 3.3, 0
49, 0.55, 3.3, 0
50, 3.05, 3.3, 0
51, 4.825, 3.3, 0
52, 5.025, 3.3, 0
53, 5.15, 3.3, 0
54, 5.275, 3.3, 0
55, 5.475, 3.3, 0
56, 9.525, 3.3, 0
57, 9.725, 3.3, 0
58, 9.85, 3.3, 0
59, 9.975, 3.3, 0
60, 10.175, 3.3, 0
61, 14.225, 3.3, 0
62, 14.425, 3.3, 0
63, 14.55, 3.3, 0
64, 14.675, 3.3, 0
65, 14.875, 3.3, 0
66, 16.65, 3.3, 0
67, 19.15, 3.3, 0
68, 19.35, 3.3, 0
69, 19.7, 3.3, 0
70, 0.35, 0, -1.7
71, 19.35, 0, -1.7
72, 0.35, 1.65, -1.7
73, 19.35, 1.65, -1.7
74, 0.35, 3.3, -1.7
75, 19.35, 3.3, -1.7

*ELEMENT : Elements
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: 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, LCAXIS : Planar Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8 : Solid Element
1, BEAM, , 1, 1, 1, 2, 0, 0
2, BEAM, , 1, 1, 2, 3, 0, 0
3, BEAM, , 1, 4, 3, 4, 0, 0
4, BEAM, , 1, 2, 4, 5, 0, 0
5, BEAM, , 1, 3, 5, 6, 0, 0
6, BEAM, , 1, 1, 6, 7, 0, 0
7, BEAM, , 1, 1, 7, 8, 0, 0
8, BEAM, , 1, 4, 8, 9, 0, 0
9, BEAM, , 1, 2, 9, 10, 0, 0
10, BEAM, , 1, 3, 10, 11, 0, 0
11, BEAM, , 1, 1, 11, 12, 0, 0
12, BEAM, , 1, 1, 12, 13, 0, 0
13, BEAM, , 1, 4, 13, 14, 0, 0
14, BEAM, , 1, 2, 14, 15, 0, 0
15, BEAM, , 1, 3, 15, 16, 0, 0
16, BEAM, , 1, 1, 16, 17, 0, 0
17, BEAM, , 1, 1, 17, 18, 0, 0
18, BEAM, , 1, 4, 18, 19, 0, 0
19, BEAM, , 1, 2, 19, 20, 0, 0
20, BEAM, , 1, 3, 20, 21, 0, 0
21, BEAM, , 1, 1, 21, 22, 0, 0
22, BEAM, , 1, 1, 22, 23, 0, 0
23, BEAM, , 1, 1, 24, 25, 0, 0
24, BEAM, , 1, 1, 25, 26, 0, 0
25, BEAM, , 1, 4, 26, 27, 0, 0
26, BEAM, , 1, 2, 27, 28, 0, 0
27, BEAM, , 1, 3, 28, 29, 0, 0
28, BEAM, , 1, 1, 29, 30, 0, 0
29, BEAM, , 1, 1, 30, 31, 0, 0
30, BEAM, , 1, 4, 31, 32, 0, 0
31, BEAM, , 1, 2, 32, 33, 0, 0
32, BEAM, , 1, 3, 33, 34, 0, 0
33, BEAM, , 1, 1, 34, 35, 0, 0
34, BEAM, , 1, 1, 35, 36, 0, 0
35, BEAM, , 1, 4, 36, 37, 0, 0
36, BEAM, , 1, 2, 37, 38, 0, 0
37, BEAM, , 1, 3, 38, 39, 0, 0
38, BEAM, , 1, 1, 39, 40, 0, 0
39, BEAM, , 1, 1, 40, 41, 0, 0
40, BEAM, , 1, 4, 41, 42, 0, 0
41, BEAM, , 1, 2, 42, 43, 0, 0
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42, BEAM, , 1, 3, 43, 44, 0, 0
43, BEAM, , 1, 1, 44, 45, 0, 0
44, BEAM, , 1, 1, 45, 46, 0, 0
45, BEAM, , 1, 1, 47, 48, 0, 0
46, BEAM, , 1, 1, 48, 49, 0, 0
47, BEAM, , 1, 4, 49, 50, 0, 0
48, BEAM, , 1, 2, 50, 51, 0, 0
49, BEAM, , 1, 3, 51, 52, 0, 0
50, BEAM, , 1, 1, 52, 53, 0, 0
51, BEAM, , 1, 1, 53, 54, 0, 0
52, BEAM, , 1, 4, 54, 55, 0, 0
53, BEAM, , 1, 2, 55, 56, 0, 0
54, BEAM, , 1, 3, 56, 57, 0, 0
55, BEAM, , 1, 1, 57, 58, 0, 0
56, BEAM, , 1, 1, 58, 59, 0, 0
57, BEAM, , 1, 4, 59, 60, 0, 0
58, BEAM, , 1, 2, 60, 61, 0, 0
59, BEAM, , 1, 3, 61, 62, 0, 0
60, BEAM, , 1, 1, 62, 63, 0, 0
61, BEAM, , 1, 1, 63, 64, 0, 0
62, BEAM, , 1, 4, 64, 65, 0, 0
63, BEAM, , 1, 2, 65, 66, 0, 0
64, BEAM, , 1, 3, 66, 67, 0, 0
65, BEAM, , 1, 1, 67, 68, 0, 0
66, BEAM, , 1, 1, 68, 69, 0, 0
67, BEAM, , 2, 5, 48, 25, 0, 0
68, BEAM, , 2, 5, 25, 2, 0, 0
69, BEAM, , 2, 5, 53, 30, 0, 0
70, BEAM, , 2, 5, 30, 7, 0, 0
71, BEAM, , 2, 5, 58, 35, 0, 0
72, BEAM, , 2, 5, 35, 12, 0, 0
73, BEAM, , 2, 5, 63, 40, 0, 0
74, BEAM, , 2, 5, 40, 17, 0, 0
75, BEAM, , 2, 5, 68, 45, 0, 0
76, BEAM, , 2, 5, 45, 22, 0, 0

*GROUP : Group
: NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
주거터 , 1to69, 1to66, 0
가로보 , 2to22by5 25to45by5 48to68by5, 67to76, 0
외측 , 47to49 51to69, 45to66, 0
내측 , 1to46, 1to44, 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],
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[DATA2] : SRC
: [DATA1] : 1, DB, NAME, CODE, USEELAST, ELAST
: [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, USEELAST, ELAST or 2, ELAST, POISN, THERMAL, DEN,
MASS
1, CONC , C35 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2012 , C35
, NO, 2.8802e+007
2, CONC , C24 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2012 , C24
, NO, 2.5791e+007
*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
2, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
*SECTION : Section
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1], [DATA2] : 1st
line - DB/USER
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, 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, bWE, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL :
1st line - SRC
: D1, D2, [SRC] : 2nd line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB, NAME1, NAME2, D1, D2 :
1st line - COMBINED
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22,
D23, D24
: iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, 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)
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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, bWE, 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, bWE, 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, bWE, SHAPE : 1st line -
COMPOSITE-SI
: Hw, tw, B, Bf1, B2, tf2 : 2nd line
: SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh : 3rd line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, 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, bWE, 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
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: 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, THERMAL : 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]-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, 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
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: bWE, [WARPING POINT]-i, [WARPING POINT]-j : 5th line
: [SIZE-A] : 6th line
: [SIZE-B] : 7th line
: [SIZE-C] : 8th line
: [SIZE-D] : 9th line
: [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
: [DATA2] : CCSHAPE 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, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
: [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
: [WARPING POINT] : nWarpingCheck, X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
1, COMPOSITE , PSC-Beam(End) , CT, 0, 0, 0, 0, 0, 0, YES, NO, CT
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
1.65, 1, 0, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1
2, COMPOSITE , PSC-Beam(Mid) , CT, 0, 0, 0, 0, 0, 0, YES, NO, CI
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
1.65, 1, 0, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1
3, TAPERED , PSC-Tapered , CT, 0, 0, 0, 0, 0, 0, 0, YES, NO, CPCL, 1, 1,
CMP-CI
1, 1.65, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1, YES, 1.65, 1.65
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
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0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0, 0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
4, TAPERED , PSC-Tapered2 , CT, 0, 0, 0, 0, 0, 0, 0, YES, NO, CPCl, 1, 1,
CMP-CI
1, 1.65, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1, YES, 1.65, 1.65
, , NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
5, DBUSER , Cross Beam , CT, 0, 1, 0, 0, 1, -0.2, YES, NO, SB , 2, 1.3, 0.25, 0,
0, 0, 0, 0, 0, 0, 0
*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
*COMP-GEN-SECT-PSC-DESIGN : Composite Section for PSC Design
: SECT, bCompPSC, (Z1, Z2, Z3, t1, t2, t3, TotT)-I, (Z1, Z2, Z3, t1, t2, t3, TotT)-J
1, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
2, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*DGN-SECT
: ISEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1], [DATA2] : 1st
line - DB/USER
: ISEC, TYPE, SNAME, [OFFSET], bSD, bWE, 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, bWE, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL :
1st line - SRC
: D1, D2, [SRC] : 2nd line
: ISEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB, NAME1, NAME2, D1, D2 :

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```

1st line - COMBINED
: ISEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22,
D23, D24
: ISEC, TYPE, SNAME, [OFFSET2], bSD, bWE, 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, THERMAL : 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]-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)

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```

: [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, 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, EgD Esb, Dgd Dsb, 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, bWE, 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, bWE, SHAPE : 1st line -
COMPOSITE-SB
: Hw, tw, B, Bf1, 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, bWE, 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, bWE, 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, EgD Esb, Dgd Dsb, Pgd, Psb : 7th line
: ISEC, TYPE, SNAME, [OFFSET], bSD, bWE, 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
: bWE, [WARPING POINT]-i, [WARPING POINT]-j : 5th line
: [SIZE-A] : 6th line
: [SIZE-B] : 7th line
: [SIZE-C] : 8th line
: [SIZE-D] : 9th 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, HUSER, iVERT, VUSER, VUSER]
: [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
: [WARPING POINT] : nWarpingCheck, X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
1, COMPOSITE , PSC-Beam(End) , CT, 0, 0, 0, 0, 0, YES, NO, CT
, NO, NO, NO, NO, NO, NO, NO, NO, NO

```

```
0, 0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
1.65, 1, 0, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1
2, COMPOSITE , PSC-Beam(Mid) , CT, 0, 0, 0, 0, 0, 0, YES, NO, CI
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
1.65, 1, 0, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1
3, TAPERED , PSC-Tapered , CT, 0, 0, 0, 0, 0, 0, 0, YES, NO, CPCI, 1, 1,
CMP-CI
1, 1.65, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1, YES, 1.65, 1.65
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0, 0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
4, TAPERED , PSC-Tapered2 , CT, 0, 0, 0, 0, 0, 0, 0, YES, NO, CPCI, 1, 1,
CMP-CI
1, 1.65, 1.65, 0.2, 0, 1.11675, 1, 0.18, 0.18, 1, YES, 1.65, 1.65
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
0, 0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0.15, 0.043, 0, 0, 0.907, 0.2, 0, 0, 0.2
0.3, 0.45, 0, 0, 0.3001, 0, 0
0, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
5, DBUSER , Cross Beam , CT, 0, 1, 0, 0, 1, -0.2, YES, NO, SB , 2, 1.3, 0.25, 0,
0, 0, 0, 0, 0, 0
*STLDCASE : Static Load Cases
: LCNAME, LCTYPE, DESC
Beam 자중, USER,
합성후 고정하중, USER,
균중하중, USER,
풍하중(O), USER,
풍하중(X), USER,
```

```
0, 0, NO,
8, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
9, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
10, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
11, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
12, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
13, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
14, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
15, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
16, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
17, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
18, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
19, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
20, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
21, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
22, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
23, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
24, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
25, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
26, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
27, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
28, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
29, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
```

```
시제동하중, USER,
*CONSTRAINT : Supports
: NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
71 73 75, 111000,
70 72 74, 011000,
*ELASTICLINK
: iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy, DRz,
GROUP : GEN
: iNO, iNODE1, iNODE2, LINK, ANGLE, bSHEAR, DRy, DRz, GROUP
: RIGID
: iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, bSHEAR, DRy, DRz, GROUP
: TENS,COMP
: iNO, iNODE1, iNODE2, LINK, ANGLE, (UN)SYM, NUM, DIST1, FORCE1 ... DIST10, FORCE10,
DIR, bSHEAR, DRENDI, GROUP : MULTI LINEAR
1, 74, 48, RIGID, 0, NO, 0.5, 0.5,
2, 72, 25, RIGID, 0, NO, 0.5, 0.5,
3, 70, 2, RIGID, 0, NO, 0.5, 0.5,
4, 75, 68, RIGID, 0, NO, 0.5, 0.5,
5, 73, 45, RIGID, 0, NO, 0.5, 0.5,
6, 71, 22, RIGID, 0, NO, 0.5, 0.5,
*USE-STLD, Beam 자중
: *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
: End of data for load case [Beam 자중] -----
*USE-STLD, 합성후 고정하중
*BEAMLOAD : Element Beam Loads
: ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
: ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
: [VALUE] : D1, P1, D2, P2, D3, P3, D4, P4
: [ECCEN] : bECCEN, ECCDIR, I-END, J-END, bJ-END, bJ-END
: [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END,
bADDITIONAL_J-END
1, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
2, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
3, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
4, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
5, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
6, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
7, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -11.532, 1, -11.532, 0, 0, 0, 0, , NO,
0, 0, NO,
8, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
9, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
10, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
11, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
12, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
13, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
14, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
15, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
16, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
17, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
18, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
19, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
20, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
21, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
22, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
23, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
24, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
25, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
26, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
27, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
28, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
29, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
30, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
31, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
32, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
33, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
34, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
35, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
36, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
37, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
38, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
39, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
40, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
41, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
42, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
43, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
44, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -21.682, 1, -21.682, 0, 0, 0, 0, , NO,
0, 0, NO,
45, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
46, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
47, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
48, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
49, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
50, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
51, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
0, 0, NO,
52, LINE , UNILoad, GZ, NO , NO, aDir[1], , , 0, -14.755, 1, -14.755, 0, 0, 0, 0, , NO,
```

[illegible]

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0, NO,
50, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
51, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
52, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
53, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
54, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
55, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
56, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
57, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
58, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
59, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
60, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
61, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
62, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
63, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
64, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
65, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
66, LINE , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -1.624, 1, -1.624, 0, 0, 0, 0, , NO, 0,
0, NO,
: End of data for load case [균중하중] -----
*USE-STLD, 풍하중(O)

*BEAMLOAD : Element Beam Loads
: ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
: ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
: [VALUE] : D1, P1, D2, P2, D3, P3, D4, P4
: [ECCEN] : bECCEN, ECCDIR, I-END, J-END, bJ-END
: [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END,
bADDITIONAL_J-END
45, LINE , UNIMOMENT, GX, NO , NO, aDir[1], . . . , 0, -15.83, 1, -15.83, 0, 0, 0, 0, , NO,

```

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: ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
: ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
: [VALUE]      : D1, P1, D2, P2, D3, P3, D4, P4
: [ECCEN]      : bECCEN, ECCDIR, I-END, J-END, bJ-END
: [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END
bADDITIONAL_J-END
45, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
45, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
46, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
46, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
47, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
47, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
48, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
48, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
49, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
49, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
50, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
50, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
51, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
51, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
52, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
52, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
53, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
53, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,
54, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], , , , 0, -19.668, 1, -19.668, 0, 0, 0, 0, ,
NO, 0, 0, NO,
54, LINE      , UNILOAD, GY, NO , NO, aDir[1], , , , 0, -18.45, 1, -18.45, 0, 0, 0, 0, , NO, 0,
0, NO,

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[illegible]

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66, LINE      , UNIMOMENT, GX, NO , NO, aDir[1], . . . , 0, -19.668, 1, -19.668, 0, 0, 0, 0, .
NO, 0, 0, 0, NO.
66, LINE      , UNILoad, GY, NO , NO, aDir[1], . . . , 0, -18.45, 1, -18.45, 0, 0, 0, 0, . , NO, 0,
0, NO,
: End of data for load case [풍하중(X)] -----
*USE-STLD, 시제동하중
*BEAMLOAD      : Element Beam Loads
: ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
: ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
: [VALUE]      : D1, P1, D2, P2, D3, P3, D4, P4
: [ECCEN]      : bECCEN, ECCDIR, I-END, J-END, bJ-END
: [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END,
bADDITIONAL_J-END
1, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
2, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
3, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
4, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
5, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
6, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
7, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
8, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
9, LINE      , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
10, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
11, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
12, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
13, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
14, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
15, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
16, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO,
```

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17, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
18, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
19, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
20, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
21, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
22, LINE     , UNILoad, GX, NO , YES, 1, LY, 1.352, 1.352, NO, 0, -22.484, 1, -22.484, 0, 0,
0, 0, . , NO, 0, 0, NO.
: End of data for load case [시제동하중] -----
*MVLDCODE      : Moving Load Code
: CODE=CODE
CODE=KOREA
*LINELANE      : Traffic Line Lanes
: NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW, WS, bLANEOPT, ALLOWWIDTH
: line 1
: iELEM1, ECC1, FACT1, bSPAN1, ECCVL... : from line 2
NAME=외선순환, CROSS, 가로보, 0, 0, BOTH, 3, 1.435, NO, 0
22, 1.352, 0.16, YES, 0, 21, 1.352, 0.16, NO, 0
20, 1.352, 0.16, NO, 0, 19, 1.352, 0.16, NO, 0
18, 1.352, 0.16, NO, 0, 17, 1.352, 0.16, NO, 0
16, 1.352, 0.16, NO, 0, 15, 1.352, 0.16, NO, 0
14, 1.352, 0.16, NO, 0, 13, 1.352, 0.16, NO, 0
12, 1.352, 0.16, NO, 0, 11, 1.352, 0.16, NO, 0
10, 1.352, 0.16, NO, 0, 9, 1.352, 0.16, NO, 0
8, 1.352, 0.16, NO, 0, 7, 1.352, 0.16, NO, 0
6, 1.352, 0.16, NO, 0, 5, 1.352, 0.16, NO, 0
4, 1.352, 0.16, NO, 0, 3, 1.352, 0.16, NO, 0
2, 1.352, 0.16, NO, 0, 1, 1.352, 0.16, NO, 0
*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
: [TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2 : lane
```

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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, ADDDATA, AL, CA, LL
: 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], [BS-DATA-LF]
user(HA)
: NAME=NAME, 2, iSTYPE, [BS-DATA-HB]
user(HB)
: NAME=NAME, 2, iSTYPE, [BD37/01-HA2], [BS-DATA-HB2], [BS-DATA-LF]
```

```
user(HA&HB)
: NAME=NAME, 2, iSTYPE, [BD37/01-HA], [BD37/01-HB], [BS-DATA-LF]
user(HA&HB(AUTO))
: NAME=NAME, 2, iSTYPE, W, L
user(Pedestrian)
: NAME=NAME, 2, iSTYPE, V, AN, MINS, MAXS, P1, D1, P2, D2, ...
user(Special Vehicle)
: [BS-DATA-HA] : W1, W2, W3, EXP, EXP2, L1, L2, Pa
: [BS-DATA-HA2] : W1, W2, W3, EXP, EXP2, L1, L2
: [BS-DATA-HB] : Pb, D1, D2, d, UNITNUM
: [BS-DATA-HB2] : Pb, D1, D2, d, dd, UNITNUM
: [BS-DATA-LF] : nLT, LF1, LF2, LF3, LF4
: 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
```

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: [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, bFATI, nLOADFAC, dLOADFAC
: standard (SK)
: NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
: standard (SK FATIGUE)
: NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, dDYNAFAC_UDL

: bFATI, nLOADFAC, dLOADFAC, dLOADFAC_UDL, s1[3], s1_UDL[3]
: standard (AK)
: NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, nLOADFAC, dLOADFAC,

: bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
: standard (N14)
: NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, nLOADFAC, dLOADFAC,

: bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
: standard (N11)
: NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR

: bFATI, nLOADFAC, dLOADFAC,
: standard (SUBWAY TRAINS)
: NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC, dDYNAFAC, dEMPTYCAR

: bFATI, nLOADFAC, dLOADFAC,
: standard (TRAMCARS)
: NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
: standard (NK-80)
: NAME=NAME, 1, iTYPE, W, D, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
: standard (NG-60)
: NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI, nLOADFAC, dLOADFAC
: standard (UNIFORM LOAD)
: NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI, nLOADFAC, dLOADFAC
: 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, dDYNAFAC_UDL

: bFATI, nLOADFAC, dLOADFAC, dLOADFAC_UDL, s1[3], s1_UDL[3]
: user (Type 1)
: NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR

: bFATI, nLOADFAC, dLOADFAC,

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user (Type 2)
: NAME=NAME, 2, iTYPE, Variable, nDYNAFAC, dDYNAFAC, dEMPTYCAR
: bFATI, nLOADFAC, dLOADFAC,
: user (Type 3)
: NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, nLOADFAC, dLOADFAC

: bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
: user (Type 4)
: NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, nLOADFAC, dLOADFAC

: bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
: user (Type 5)
: NAME=NAME, 2, iTYPE, W, D, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
: user (Type 6)
: NAME=NAME, 2, iTYPE, P, W, bFATI, nLOADFAC, dLOADFAC
: user (Type 7)
: if Moving Load Code is KSCE-LSD15
: NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC, CODE, nLANELOAD, L,
CONVERTDIST : standard
: NAME=NAME, 2, 8, L1, W1, W2, EXP, dDYNAFAC, nLANELOAD, L, CONVERTDIST
: user: line 1 (Type 1)
: NAME=NAME, 2, 1, W1, W2, D1, D2, 0, 0, 0, NO
: user: line 1 (Type 2)
: NAME=NAME, 2, 6, LOADNUM, DIST, W, L, 0, 0, 0, NO
: user: line 1 (Type 3)
: LOAD1, DIST1, (DIST2_1), LOAD2, DIST2, (DIST2_2), ... : user:
from line 2
: if Moving Load Code is South Africa
: NAME=NAME, 1, TYPE-NAME, CODE, bINCREL, dINCREL
: standard NA
: NAME=NAME, 1, TYPE-NAME, CODE, UNITNUM
: standard NB
: NAME=NAME, 1, TYPE-NAME, CODE, OPPOSITE
: standard NC
: NAME=NAME, 2, TYPE, W1, L, W2, W3, PA, bINCREL, dINCREL
: user NA
: NAME=NAME, 2, TYPE, PB, UNITNUM, DELTA, D1, D2
: user NB
: NAME=NAME, 2, TYPE, P, OPPOSITE, NUM1, NUM2, NUM3 [DIST1], [DIST2], [DIST3]
: user NC
: if 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)

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: ...
: 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=EL-18, 1, EL-18, 0, KS-TR
*MVLDCase : Moving Load Cases
: NAME=NAME, nLCTYPE, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC,
LCOM, SERIAL : 1st line
: nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4
: 2st line
: TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11, LANE12, ...
: 3rd line
: ...
: ...
: TYPEEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1, LANEn2, ...
: n+1th line
: NAME=NAME, nLCTYPE, VEHICLE, REFLANE, ECCEN, SCALE, DESC
: Permit
: NAME=NAME, nLCTYPE, DESC, bOPTIM, SUBLANEW, MINSPACING, MARGIN, LANE, MINNUM,
MAXNUM, SERIAL : Traffic Lane Optimization
: TYPE1, VCLASS1, SCALE1...
: Traffic Lane Optimization 1st line
: ...
: Traffic Lane Optimization ...
: TYPEEn, VCLASSn, SCALEn...
: Traffic Lane Optimization n+1th line
NAME=외선순환, 0, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 1
1, 1, 1, 1, 0.5, 0.25
VL, EL-18, 1, 1, 1, 외선순환
*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, Beam 자중, 0, 128, 57, 78, 0, 255, 192, 72, 0
ST, 합성후 고정하중, 93, 255, 87, 0, 128, 57, 212, 160, 255
ST, 균중하중, 192, 72, 0, 192, 128, 0, 210, 210, 210
MV, 외선순환, 210, 210, 210, 192, 128, 0, 0, 128, 255
ST, 풍하중(O), 192, 192, 0, 192, 0, 128, 148, 87, 255
ST, 풍하중(X), 0, 157, 192, 192, 0, 192, 0, 157, 192

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ST, 시제동하중, 0, 128, 57, 255, 160, 255, 0, 192, 192
*DGN-MATL : Modify Steel(Concrete) Material
: iMAT, TYPE, MNAME, [DATA1] : 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, CONC , C35 , 1, KS01-Civil(RC), ,C35 , NO, 1, , , , 0,
0, 24500, NO, 0, 0, , , 0, NO, 1, , , , 0, 0, 0
2, CONC , C24 , 1, KS01-Civil(RC), ,C24 , NO, 1, , , , 0,
0, 16800, NO, 0, 0, , , 0, NO, 1, , , , 0, 0, 0
*SECTION MANAGER-GROUP & PART : Section Manager - Group & Part
: SECT = NO, bSAME] : line 1
: GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE : line 2
: :
: LOOP UTIL (GRPDISIZE, GRPDJSIZE) :
: GROUPID, GROUPNAME, GROUPTYPE : line n
: :
: LOOP UTIL (PARTISIZE, PARTJSIZE) :
: 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
*SECTION MANAGER-STIFFENER : Section Manager - Stiffener
: SECT = NO, bSAME] : line 1
: STFNISIZE, STFNJSIZE : line 2
: :
: LOOP UTIL (STFNISIZE, STFNJSIZE) :

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;      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
•ENDDATA
```