

MIDAS/Civil

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PROJECT TITLE :

MIDAS	Company		Client	
Author			File Name	신계1교-황분배

; MIDAS/Civil Text(MCT) File.
; Date : 2015/11/14

*VERSION
8.4.5

*UNIT ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, C

*STRUCTYPE ; Structure Type
; ISTYP, IMASS, ISMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTIGRID
1, 1, 1, NO, NO, 9.806, 0, NO, NO, 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, 0, 0, 0
2, 0.45, 0, 0
3, 0.85, 0, 0
4, 1, 0, 0
5, 3, 0, 0
6, 3.15, 0, 0
7, 3.456, 0, 0
8, 4.408, 0, 0
9, 4.55, 0, 0
10, 4.75, 0, 0
11, 4.95, 0, 0
12, 5.135, 0, 0
13, 6.208, 0, 0
14, 6.35, 0, 0
15, 6.5, 0, 0
16, 8.5, 0, 0
17, 8.65, 0, 0
18, 8.956, 0, 0
19, 9.908, 0, 0
20, 10, 0, 0
21, 10.05, 0, 0
22, 10.25, 0, 0
23, 10.45, 0, 0
24, 10.5, 0, 0
25, 10.635, 0, 0

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26, 11.708, 0, 0
27, 11.85, 0, 0
28, 12, 0, 0
29, 14, 0, 0
30, 14.15, 0, 0
31, 14.456, 0, 0
32, 15.408, 0, 0
33, 15.55, 0, 0
34, 15.75, 0, 0
35, 15.95, 0, 0
36, 16.135, 0, 0
37, 17.208, 0, 0
38, 17.35, 0, 0
39, 17.5, 0, 0
40, 19.5, 0, 0
41, 19.65, 0, 0
42, 20.05, 0, 0
43, 20.5, 0, 0
44, 20.5, 0, 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, LCAXIS ; 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, RPZ, iSUB, EXVAL ; Frame(Ref. Point)
1, BEAM , 1, 1, 1, 2, 0, 0
2, BEAM , 1, 2, 3, 4, 0, 0
3, BEAM , 1, 2, 4, 5, 0, 0
4, BEAM , 1, 2, 5, 6, 0, 0
5, BEAM , 1, 3, 6, 7, 0, 0
6, BEAM , 1, 10, 7, 8, 0, 0
7, BEAM , 1, 4, 8, 9, 0, 0
8, BEAM , 1, 5, 9, 10, 0, 0
9, BEAM , 1, 5, 10, 11, 0, 0
10, BEAM , 1, 7, 11, 12, 0, 0
11, BEAM , 1, 10, 12, 13, 0, 0
12, BEAM , 1, 1, 13, 14, 0, 0
13, BEAM , 1, 2, 14, 15, 0, 0
15, BEAM , 1, 2, 16, 17, 0, 0
16, BEAM , 1, 3, 17, 18, 0, 0
20, BEAM , 1, 2, 15, 16, 0, 0
42, BEAM , 1, 1, 2, 3, 0, 0
43, BEAM , 1, 10, 18, 19, 0, 0
44, BEAM , 1, 4, 19, 20, 0, 0
45, BEAM , 1, 5, 21, 22, 0, 0
46, BEAM , 1, 5, 22, 23, 0, 0

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47, BEAM , 1, 7, 23, 24, 0, 0
48, BEAM , 1, 10, 25, 26, 0, 0
49, BEAM , 1, 1, 26, 27, 0, 0
50, BEAM , 1, 2, 27, 28, 0, 0
51, BEAM , 1, 2, 29, 30, 0, 0
52, BEAM , 1, 3, 30, 31, 0, 0
53, BEAM , 1, 2, 28, 29, 0, 0
54, BEAM , 1, 10, 31, 32, 0, 0
55, BEAM , 1, 4, 32, 33, 0, 0
56, BEAM , 1, 5, 33, 34, 0, 0
57, BEAM , 1, 5, 34, 35, 0, 0
58, BEAM , 1, 7, 35, 36, 0, 0
59, BEAM , 1, 10, 36, 37, 0, 0
60, BEAM , 1, 1, 37, 38, 0, 0
61, BEAM , 1, 2, 38, 39, 0, 0
62, BEAM , 1, 2, 40, 41, 0, 0
63, BEAM , 1, 3, 41, 42, 0, 0
64, BEAM , 1, 2, 39, 40, 0, 0
65, BEAM , 1, 3, 42, 44, 0, 0
66, BEAM , 1, 4, 20, 21, 0, 0
67, BEAM , 1, 7, 24, 25, 0, 0

*MATERIAL ; Material
; IMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1] ; STEEL, CONC, USE
R
; 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, CONC , C27 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2012 , C27

*MATL-COLOR
; IMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
1, 128, 128, 128, 192, 192, 192, 128, 128, 128, YES, 0.09

*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, Ixx, Iyy, Izz ; 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, THERMAL ; 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

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; 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, Ixx1, Iyy1, Izz1 ; 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, Ixx2, Iyy2, Izz2 ; 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], Wl, 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 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, 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

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; 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
; [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, iVERT, VUSER, iVERT, VUSER
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCH), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCELL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCH), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCELL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCH), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCELL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCH), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCELL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCH), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCELL2)
; [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [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, TAPERED , 250to300 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.3, 1, 0, 0, 0, 0, 0, 0
2, TAPERED , 300to346 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.3, 1, 0, 0, 0, 0, 0, 0, 0.346, 1, 0, 0, 0, 0, 0, 0
3, TAPERED , 346to250 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.346, 1, 0, 0, 0, 0, 0, 0, 0.25, 1, 0, 0, 0, 0, 0, 0
4, TAPERED , 250to319 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.319, 1, 0, 0, 0, 0, 0, 0
5, TAPERED , 319to327 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.319, 1, 0, 0, 0, 0, 0, 0, 0.327, 1, 0, 0, 0, 0, 0, 0
6, TAPERED , 250to327 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.327, 1, 0, 0, 0, 0, 0, 0
7, TAPERED , 327to250 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.327, 1, 0, 0, 0, 0, 0, 0, 0.25, 1, 0, 0, 0, 0, 0, 0
8, DBUSER , 327 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.327, 1, 0, 0, 0, 0, 0, 0, 0
10, DBUSER , 250 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 0, 0, 0, 0, 0, 0, 0
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11, DBUSER , 300 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.3, 1, 0, 0, 0, 0, 0, 0, 0
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*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
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
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*COMP-GEN-SECT-PSC-DESIGN ; Composite Section for PSC Design
; ELEM, (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
2, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
3, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
4, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
6, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
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*DGN-SECT
; ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st line - DB/USER
; ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., DB, iCEL ; 1st line - VALUE
; AREA, ASy, ASz, Ixx, Iyy, Izz ; 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, THERMAL ; 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, D1, D12, D13, D14, D15, D21, D22, D23, D24 ; 2nd line
; 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, Ixx1, Iyy1, Izz1 ; 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, Ixx2, Iyy2, Izz2 ; 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-CMPWB)
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; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], Wl, Wj, bSYM, bSIDEHOLE ; 3rd line(STYPE=PSC)
; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] ; 3rd line(STYPE=PSC-CMPWB)
; 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-S ; 2nd line(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 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_j, 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, 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, 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, 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
```

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```
; [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
; [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, iVERT, VUSER, iVERT, VUSER
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCH), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCELL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCH), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCELL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCH), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCELL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCH), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCELL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCH), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCELL2)
; [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [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, TAPERED , 250to300 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.3, 1, 0, 0, 0, 0, 0, 0
2, TAPERED , 300to346 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.3, 1, 0, 0, 0, 0, 0, 0, 0.346, 1, 0, 0, 0, 0, 0, 0
3, TAPERED , 346to250 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.346, 1, 0, 0, 0, 0, 0, 0, 0.25, 1, 0, 0, 0, 0, 0, 0
4, TAPERED , 250to319 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.319, 1, 0, 0, 0, 0, 0, 0
5, TAPERED , 319to327 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.319, 1, 0, 0, 0, 0, 0, 0, 0.327, 1, 0, 0, 0, 0, 0, 0
6, TAPERED , 250to327 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.25, 1, 0, 0, 0, 0, 0, 0, 0.327, 1, 0, 0, 0, 0, 0, 0
7, TAPERED , 327to250 , CT, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
0.327, 1, 0, 0, 0, 0, 0, 0, 0.25, 1, 0, 0, 0, 0, 0, 0
8, DBUSER , 327 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.327, 1, 0, 0, 0, 0, 0, 0, 0
10, DBUSER , 250 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 0, 0, 0, 0, 0, 0, 0
11, DBUSER , 300 , CT, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.3, 1, 0, 0, 0, 0, 0, 0, 0
```

```
*TS-GROUP ; Tapered Section Group
; NAME, ELEM_LIST, ZVAR, ZEXP, ZFROM, ZDIST, YVAR, YEXP, YFROM, YDIST, iSCM
1, 2to4 13 15 20 50 51 53 61 62 64, LINEAR, , , , LINEAR, , , , 0
2, 8 9, LINEAR, , , , LINEAR, , , , 0
4, 1 42, LINEAR, , , , LINEAR, , , , 0
5, 63 65, LINEAR, , , , LINEAR, , , , 0
6, 44 66, LINEAR, , , , LINEAR, , , , 0
7, 47 67, LINEAR, , , , LINEAR, , , , 0
```

*STLDCASE ; Static Load Cases

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LCNAME, LCTYPE, DESC
Deck , D ,
2nd , D ,

*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
22, 101000,
4to40by12 5 10 15 29 34 39, 001000,

*USE-STLD, Deck

; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,

; End of data for load case [Deck] -----

*USE-STLD, 2nd

*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, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0.0666667, -25, 0.577778, -25, 0.733333, -7.5, 1, -3.125, , NO,
0, 0, NO,
2, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
3, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
4, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
5, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
6, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
7, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
8, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
9, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
10, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
11, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
12, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
13, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
15, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
16, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
20, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
42, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
43, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
44, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
45, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -7.5, 1, -7.5, 0, 0, 0, , NO, 0, 0, NO,
46, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -7.5, 1, -7.5, 0, 0, 0, , NO, 0, 0, NO,

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47, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -7.5, 1, -7.5, 0, 0, 0, , NO, 0, 0, NO,
48, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
49, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
50, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
51, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
52, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
53, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
54, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
55, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
56, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
57, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
58, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
59, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
60, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
61, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
62, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
63, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
64, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,
65, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.125, 0.266667, -7.5, 0.422222, -25, 0.955556, -25, , NO, 0
, 0, NO,
66, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -7.5, 1, -7.5, 0, 0, 0, , NO, 0, 0, NO,
67, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, , NO, 0, 0, NO,

; End of data for load case [2nd] -----

*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, Deck, 163, 160, 255, 148, 87, 255, 163, 160, 255
ST, 2nd, 192, 192, 192, 255, 255, 87, 146, 0, 255

*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), FY5
1, CONC , C27 , 1, KS01-Civil(RC), , C27 , NO, 1, , , 0, 0, 18900, NO, 0, 0,
, , 0, NO, 1, , , 0, 0, 0

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*SECTION MANAGER-GROUP & PART ; Section Manager - Group & Part
; SECT = NO, bSAMEJ ; 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
SECT=5, YES
0, 0, 0, 0
SECT=6, YES
0, 0, 0, 0

*SECTION MANAGER-STIFFENER ; Section Manager - Stiffener
; SECT = NO, bSAMEJ ; line 1
; STFNISIZE, STFNJSIZE ; line 2
; -----
; LOOP UTIL (STFNISIZE, STFNJSIZE) ;
; 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

*ENDDATA

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