

■ PSC 거더(3@30.000m) 입력자료

1. 횡분배

; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

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

*STRUCTYPE ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB
1, 1, 1, NO, NO, 9.806, 0, NO, NO

*REBAR-MATL-CODE ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE ; Nodes
; iNO, X, Y, Z
8, 12.145, 0, 0
9, 11.073, 0, 0
10, 8.573, 0, 0
11, 6.073, 0, 0
12, 3.573, 0, 0
13, 1.073, 0, 0
14, 0, 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 ; 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)
7, BEAM , 1, 1, 9, 8, 0
8, BEAM , 1, 1, 10, 9, 0
9, BEAM , 1, 1, 11, 10, 0
10, BEAM , 1, 1, 12, 11, 0
11, BEAM , 1, 1, 13, 12, 0
12, BEAM , 1, 1, 14, 13, 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 ; 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-2007 , 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, 255, 0, 0, 255, 77, 77, 192, 220, 192, 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, Ixx, Iyy, Izz ; 2nd line
; CyP, CyM, CzP, CzM, QyB, QzB, PERL_OUT, PERL_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, Ixx1, Iyy1, Izz1 ; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERL_OUT1, PERL_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, PERL_OUT2, PERL_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)
; 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_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_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
; 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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, DBUSER , slab , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 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, 255, 77, 77, 192, 220, 192, NO, 0.5

*DGN-SECT

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 ; 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, Ixx1, Iyy1, Izz1    ; 3rd line(STYPE=VALUE)
;      CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERL_OUT1, PERL_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, PERL_OUT2, PERL_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)
;      bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]          ; 3rd
line(STYPE=PSC-CMPW)
;      bUSERDEFMESHSIZE, MESHSIZE, 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_j, tw_j, B_j, Bf1_i, tf1_j, B2_j, Bf2_i, 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, EgD_Esb, 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
;      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, EgD_Esb, 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
;      bUSERDEFMESHSIZE, MESHSIZE, 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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, DBUSER      , slab      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 0, 0, 0, 0, 0, 0, 0, 0

*STLDCASE      : Static Load Cases
; LCNAME, LCTYPE, DESC
합성후 고정자중, D , 실하중(방호벽+중분대+포장)

*CONSTRAINT      : Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
11, 111100,
9 10 12 13, 011000,

*USE-STLD, 합성후 고정자중

*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
7, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -1.84, 0.715485, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
7, BEAM      , CONLoad, GZ, NO , NO, aDir[1], , , , 0.908582, -5.877, 0, 0, 0, 0, 0, 0, , NO, 0, 0, NO
8, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
9, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
10, BEAM     , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
11, BEAM     , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
12, BEAM     , CONLoad, GZ, NO , NO, aDir[1], , , , 0.178938, -8.367, 0, 0, 0, 0, 0, 0, , NO, 0, 0, NO
12, BEAM     , UNILoad, GZ, NO , NO, aDir[1], , , , 0.419385, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [합성후 고정자중] -----

*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, 합성후 고정자중, 163, 255, 160, 93, 255, 87, 163, 160, 255

*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR, bTPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO

*DGN=MATL      : Modify Steel(Concrete) Material
```

2. 합성전

; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

*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
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE ; Nodes
; iNO, X, Y, Z
101, 0, 5, 0
102, 0.4, 5, 0
103, 0.6, 5, 0
104, 4, 5, 0
105, 5.25, 5, 0
106, 10.1, 5, 0
107, 14.95, 5, 0
108, 19.8, 5, 0
109, 24.65, 5, 0
110, 25.9, 5, 0
111, 29.3, 5, 0
112, 29.5, 5, 0
113, 29.9, 5, 0
114, 30, 5, 0
115, 30.4, 5, 0
116, 30.6, 5, 0
117, 34, 5, 0
118, 35.25, 5, 0
119, 40.1, 5, 0
120, 44.95, 5, 0
121, 49.8, 5, 0
122, 54.65, 5, 0
123, 55.9, 5, 0
124, 59.3, 5, 0
125, 59.5, 5, 0

126, 59.9, 5, 0
127, 60, 5, 0
128, 60.4, 5, 0
129, 60.6, 5, 0
130, 64, 5, 0
131, 65.25, 5, 0
132, 70.1, 5, 0
133, 74.95, 5, 0
134, 79.8, 5, 0
135, 84.65, 5, 0
136, 85.9, 5, 0
137, 89.3, 5, 0
138, 89.5, 5, 0
139, 89.9, 5, 0
201, 0, 2.5, 0
202, 0.4, 2.5, 0
203, 0.6, 2.5, 0
204, 4, 2.5, 0
205, 5.25, 2.5, 0
206, 10.1, 2.5, 0
207, 14.95, 2.5, 0
208, 19.8, 2.5, 0
209, 24.65, 2.5, 0
210, 25.9, 2.5, 0
211, 29.3, 2.5, 0
212, 29.5, 2.5, 0
213, 29.9, 2.5, 0
214, 30, 2.5, 0
215, 30.4, 2.5, 0
216, 30.6, 2.5, 0
217, 34, 2.5, 0
218, 35.25, 2.5, 0
219, 40.1, 2.5, 0
220, 44.95, 2.5, 0
221, 49.8, 2.5, 0
222, 54.65, 2.5, 0
223, 55.9, 2.5, 0
224, 59.3, 2.5, 0
225, 59.5, 2.5, 0
226, 59.9, 2.5, 0
227, 60, 2.5, 0
228, 60.4, 2.5, 0
229, 60.6, 2.5, 0
230, 64, 2.5, 0
231, 65.25, 2.5, 0
232, 70.1, 2.5, 0

233, 74.95, 2.5, 0
234, 79.8, 2.5, 0
235, 84.65, 2.5, 0
236, 85.9, 2.5, 0
237, 89.3, 2.5, 0
238, 89.5, 2.5, 0
239, 89.9, 2.5, 0
301, 0, 0, 0
302, 0.4, 0, 0
303, 0.6, 0, 0
304, 4, 0, 0
305, 5.25, 0, 0
306, 10.1, 0, 0
307, 14.95, 0, 0
308, 19.8, 0, 0
309, 24.65, 0, 0
310, 25.9, 0, 0
311, 29.3, 0, 0
312, 29.5, 0, 0
313, 29.9, 0, 0
314, 30, 0, 0
315, 30.4, 0, 0
316, 30.6, 0, 0
317, 34, 0, 0
318, 35.25, 0, 0
319, 40.1, 0, 0
320, 44.95, 0, 0
321, 49.8, 0, 0
322, 54.65, 0, 0
323, 55.9, 0, 0
324, 59.3, 0, 0
325, 59.5, 0, 0
326, 59.9, 0, 0
327, 60, 0, 0
328, 60.4, 0, 0
329, 60.6, 0, 0
330, 64, 0, 0
331, 65.25, 0, 0
332, 70.1, 0, 0
333, 74.95, 0, 0
334, 79.8, 0, 0
335, 84.65, 0, 0
336, 85.9, 0, 0
337, 89.3, 0, 0
338, 89.5, 0, 0
339, 89.9, 0, 0

401, 0, -2.5, 0
402, 0.4, -2.5, 0
403, 0.6, -2.5, 0
404, 4, -2.5, 0
405, 5.25, -2.5, 0
406, 10.1, -2.5, 0
407, 14.95, -2.5, 0
408, 19.8, -2.5, 0
409, 24.65, -2.5, 0
410, 25.9, -2.5, 0
411, 29.3, -2.5, 0
412, 29.5, -2.5, 0
413, 29.9, -2.5, 0
414, 30, -2.5, 0
415, 30.4, -2.5, 0
416, 30.6, -2.5, 0
417, 34, -2.5, 0
418, 35.25, -2.5, 0
419, 40.1, -2.5, 0
420, 44.95, -2.5, 0
421, 49.8, -2.5, 0
422, 54.65, -2.5, 0
423, 55.9, -2.5, 0
424, 59.3, -2.5, 0
425, 59.5, -2.5, 0
426, 59.9, -2.5, 0
427, 60, -2.5, 0
428, 60.4, -2.5, 0
429, 60.6, -2.5, 0
430, 64, -2.5, 0
431, 65.25, -2.5, 0
432, 70.1, -2.5, 0
433, 74.95, -2.5, 0
434, 79.8, -2.5, 0
435, 84.65, -2.5, 0
436, 85.9, -2.5, 0
437, 89.3, -2.5, 0
438, 89.5, -2.5, 0
439, 89.9, -2.5, 0
501, 0, -5, 0
502, 0.4, -5, 0
503, 0.6, -5, 0
504, 4, -5, 0
505, 5.25, -5, 0
506, 10.1, -5, 0
507, 14.95, -5, 0

508, 19.8, -5, 0
509, 24.65, -5, 0
510, 25.9, -5, 0
511, 29.3, -5, 0
512, 29.5, -5, 0
513, 29.9, -5, 0
514, 30, -5, 0
515, 30.4, -5, 0
516, 30.6, -5, 0
517, 34, -5, 0
518, 35.25, -5, 0
519, 40.1, -5, 0
520, 44.95, -5, 0
521, 49.8, -5, 0
522, 54.65, -5, 0
523, 55.9, -5, 0
524, 59.3, -5, 0
525, 59.5, -5, 0
526, 59.9, -5, 0
527, 60, -5, 0
528, 60.4, -5, 0
529, 60.6, -5, 0
530, 64, -5, 0
531, 65.25, -5, 0
532, 70.1, -5, 0
533, 74.95, -5, 0
534, 79.8, -5, 0
535, 84.65, -5, 0
536, 85.9, -5, 0
537, 89.3, -5, 0
538, 89.5, -5, 0
539, 89.9, -5, 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, RPZ, iSUB, EXVAL ; Frame(Ref. Point)

101, BEAM , 1, 1, 101, 102, 0
102, BEAM , 1, 1, 102, 103, 0
103, BEAM , 1, 3, 103, 104, 0
104, BEAM , 1, 2, 104, 105, 0
105, BEAM , 1, 2, 105, 106, 0
106, BEAM , 1, 2, 106, 107, 0
107, BEAM , 1, 2, 107, 108, 0

108, BEAM , 1, 2, 108, 109, 0
109, BEAM , 1, 2, 109, 110, 0
110, BEAM , 1, 4, 110, 111, 0
111, BEAM , 1, 1, 111, 112, 0
112, BEAM , 1, 1, 112, 113, 0
113, BEAM , 1, 1, 114, 115, 0
114, BEAM , 1, 1, 115, 116, 0
115, BEAM , 1, 3, 116, 117, 0
116, BEAM , 1, 2, 117, 118, 0
117, BEAM , 1, 2, 118, 119, 0
118, BEAM , 1, 2, 119, 120, 0
119, BEAM , 1, 2, 120, 121, 0
120, BEAM , 1, 2, 121, 122, 0
121, BEAM , 1, 2, 122, 123, 0
122, BEAM , 1, 4, 123, 124, 0
123, BEAM , 1, 1, 124, 125, 0
124, BEAM , 1, 1, 125, 126, 0
125, BEAM , 1, 1, 127, 128, 0
126, BEAM , 1, 1, 128, 129, 0
127, BEAM , 1, 3, 129, 130, 0
128, BEAM , 1, 2, 130, 131, 0
129, BEAM , 1, 2, 131, 132, 0
130, BEAM , 1, 2, 132, 133, 0
131, BEAM , 1, 2, 133, 134, 0
132, BEAM , 1, 2, 134, 135, 0
133, BEAM , 1, 2, 135, 136, 0
134, BEAM , 1, 4, 136, 137, 0
135, BEAM , 1, 1, 137, 138, 0
136, BEAM , 1, 1, 138, 139, 0
201, BEAM , 1, 1, 201, 202, 0
202, BEAM , 1, 1, 202, 203, 0
203, BEAM , 1, 3, 203, 204, 0
204, BEAM , 1, 2, 204, 205, 0
205, BEAM , 1, 2, 205, 206, 0
206, BEAM , 1, 2, 206, 207, 0
207, BEAM , 1, 2, 207, 208, 0
208, BEAM , 1, 2, 208, 209, 0
209, BEAM , 1, 2, 209, 210, 0
210, BEAM , 1, 4, 210, 211, 0
211, BEAM , 1, 1, 211, 212, 0
212, BEAM , 1, 1, 212, 213, 0
213, BEAM , 1, 1, 214, 215, 0
214, BEAM , 1, 1, 215, 216, 0
215, BEAM , 1, 3, 216, 217, 0
216, BEAM , 1, 2, 217, 218, 0
217, BEAM , 1, 2, 218, 219, 0

218, BEAM	,	1,	2,	219,	220,	0
219, BEAM	,	1,	2,	220,	221,	0
220, BEAM	,	1,	2,	221,	222,	0
221, BEAM	,	1,	2,	222,	223,	0
222, BEAM	,	1,	4,	223,	224,	0
223, BEAM	,	1,	1,	224,	225,	0
224, BEAM	,	1,	1,	225,	226,	0
225, BEAM	,	1,	1,	227,	228,	0
226, BEAM	,	1,	1,	228,	229,	0
227, BEAM	,	1,	3,	229,	230,	0
228, BEAM	,	1,	2,	230,	231,	0
229, BEAM	,	1,	2,	231,	232,	0
230, BEAM	,	1,	2,	232,	233,	0
231, BEAM	,	1,	2,	233,	234,	0
232, BEAM	,	1,	2,	234,	235,	0
233, BEAM	,	1,	2,	235,	236,	0
234, BEAM	,	1,	4,	236,	237,	0
235, BEAM	,	1,	1,	237,	238,	0
236, BEAM	,	1,	1,	238,	239,	0
301, BEAM	,	1,	1,	301,	302,	0
302, BEAM	,	1,	1,	302,	303,	0
303, BEAM	,	1,	3,	303,	304,	0
304, BEAM	,	1,	2,	304,	305,	0
305, BEAM	,	1,	2,	305,	306,	0
306, BEAM	,	1,	2,	306,	307,	0
307, BEAM	,	1,	2,	307,	308,	0
308, BEAM	,	1,	2,	308,	309,	0
309, BEAM	,	1,	2,	309,	310,	0
310, BEAM	,	1,	4,	310,	311,	0
311, BEAM	,	1,	1,	311,	312,	0
312, BEAM	,	1,	1,	312,	313,	0
313, BEAM	,	1,	1,	314,	315,	0
314, BEAM	,	1,	1,	315,	316,	0
315, BEAM	,	1,	3,	316,	317,	0
316, BEAM	,	1,	2,	317,	318,	0
317, BEAM	,	1,	2,	318,	319,	0
318, BEAM	,	1,	2,	319,	320,	0
319, BEAM	,	1,	2,	320,	321,	0
320, BEAM	,	1,	2,	321,	322,	0
321, BEAM	,	1,	2,	322,	323,	0
322, BEAM	,	1,	4,	323,	324,	0
323, BEAM	,	1,	1,	324,	325,	0
324, BEAM	,	1,	1,	325,	326,	0
325, BEAM	,	1,	1,	327,	328,	0
326, BEAM	,	1,	1,	328,	329,	0
327, BEAM	,	1,	3,	329,	330,	0

328, BEAM	,	1,	2,	330,	331,	0
329, BEAM	,	1,	2,	331,	332,	0
330, BEAM	,	1,	2,	332,	333,	0
331, BEAM	,	1,	2,	333,	334,	0
332, BEAM	,	1,	2,	334,	335,	0
333, BEAM	,	1,	2,	335,	336,	0
334, BEAM	,	1,	4,	336,	337,	0
335, BEAM	,	1,	1,	337,	338,	0
336, BEAM	,	1,	1,	338,	339,	0
401, BEAM	,	1,	1,	401,	402,	0
402, BEAM	,	1,	1,	402,	403,	0
403, BEAM	,	1,	3,	403,	404,	0
404, BEAM	,	1,	2,	404,	405,	0
405, BEAM	,	1,	2,	405,	406,	0
406, BEAM	,	1,	2,	406,	407,	0
407, BEAM	,	1,	2,	407,	408,	0
408, BEAM	,	1,	2,	408,	409,	0
409, BEAM	,	1,	2,	409,	410,	0
410, BEAM	,	1,	4,	410,	411,	0
411, BEAM	,	1,	1,	411,	412,	0
412, BEAM	,	1,	1,	412,	413,	0
413, BEAM	,	1,	1,	414,	415,	0
414, BEAM	,	1,	1,	415,	416,	0
415, BEAM	,	1,	3,	416,	417,	0
416, BEAM	,	1,	2,	417,	418,	0
417, BEAM	,	1,	2,	418,	419,	0
418, BEAM	,	1,	2,	419,	420,	0
419, BEAM	,	1,	2,	420,	421,	0
420, BEAM	,	1,	2,	421,	422,	0
421, BEAM	,	1,	2,	422,	423,	0
422, BEAM	,	1,	4,	423,	424,	0
423, BEAM	,	1,	1,	424,	425,	0
424, BEAM	,	1,	1,	425,	426,	0
425, BEAM	,	1,	1,	427,	428,	0
426, BEAM	,	1,	1,	428,	429,	0
427, BEAM	,	1,	3,	429,	430,	0
428, BEAM	,	1,	2,	430,	431,	0
429, BEAM	,	1,	2,	431,	432,	0
430, BEAM	,	1,	2,	432,	433,	0
431, BEAM	,	1,	2,	433,	434,	0
432, BEAM	,	1,	2,	434,	435,	0
433, BEAM	,	1,	2,	435,	436,	0
434, BEAM	,	1,	4,	436,	437,	0
435, BEAM	,	1,	1,	437,	438,	0
436, BEAM	,	1,	1,	438,	439,	0
501, BEAM	,	1,	1,	501,	502,	0

```

502, BEAM , 1, 1, 502, 503, 0
503, BEAM , 1, 3, 503, 504, 0
504, BEAM , 1, 2, 504, 505, 0
505, BEAM , 1, 2, 505, 506, 0
506, BEAM , 1, 2, 506, 507, 0
507, BEAM , 1, 2, 507, 508, 0
508, BEAM , 1, 2, 508, 509, 0
509, BEAM , 1, 2, 509, 510, 0
510, BEAM , 1, 4, 510, 511, 0
511, BEAM , 1, 1, 511, 512, 0
512, BEAM , 1, 1, 512, 513, 0
513, BEAM , 1, 1, 514, 515, 0
514, BEAM , 1, 1, 515, 516, 0
515, BEAM , 1, 3, 516, 517, 0
516, BEAM , 1, 2, 517, 518, 0
517, BEAM , 1, 2, 518, 519, 0
518, BEAM , 1, 2, 519, 520, 0
519, BEAM , 1, 2, 520, 521, 0
520, BEAM , 1, 2, 521, 522, 0
521, BEAM , 1, 2, 522, 523, 0
522, BEAM , 1, 4, 523, 524, 0
523, BEAM , 1, 1, 524, 525, 0
524, BEAM , 1, 1, 525, 526, 0
525, BEAM , 1, 1, 527, 528, 0
526, BEAM , 1, 1, 528, 529, 0
527, BEAM , 1, 3, 529, 530, 0
528, BEAM , 1, 2, 530, 531, 0
529, BEAM , 1, 2, 531, 532, 0
530, BEAM , 1, 2, 532, 533, 0
531, BEAM , 1, 2, 533, 534, 0
532, BEAM , 1, 2, 534, 535, 0
533, BEAM , 1, 2, 535, 536, 0
534, BEAM , 1, 4, 536, 537, 0
535, BEAM , 1, 1, 537, 538, 0
536, BEAM , 1, 1, 538, 539, 0

```

```

*GROUP ; Group
; NAME, NODE_LIST, ELEM_LIST
지점 , 102to502by100 112to512by100,

```

```

*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 ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C40 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , C40

```

```

*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, 255, 77, 77, 192, 220, 192, NO, 0.5

```

```

*SECT-PSCVALUE ; PSC Value, General Section, Composite PC, Composite General
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)

```

```

;      ...
;      LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn          ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
;      [PART1]          ; 2nd line
;      [PART2]          ; 3rd line
;      ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
;      [PART1]-I          ; 2nd line
;      [PART2]-I          ; next lines
;      ...
;      [PART1]-J          ; next lines
;      [PART2]-J          ; next lines
;      ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK]   : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT]     : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
;      : [STIFF1]
;      : [STIFF2]
;      : [STIFF3]
;      : [STIFF1]          ; [STIFF1] of Part Sum.
;      : [STIFF2]          ; [STIFF2] of Part Sum.
;      : [STIFF3]          ; [STIFF3] of Part Sum.
;      : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Outer Polygon(PLANE)
;      : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;      : ...
;      : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;      : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Vertex(General-LINE)
;      : LINE=(bI-Tapered), VII, VJ1, dTHIK1, iALIGN1          ; Line(General-LINE)
;      : ...
;      : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn          ; Line(General-LINE)
;      : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn          ; Line(General-LINE)
;      : ...
;      : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn          ; Line(General-LINE)
SECT= 1, VALUE          , END BM(BC)          , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE          , CEN BM(BC)          , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0

```

```

0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED          , END-CEN BM(BC)          , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED          , CEN-END BM(BC)          , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
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

```

*DGN-SECT-PSCVALUE ; Design Section of PSC Value

```

; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ          ; 1st line
;      [STIFF1]          ; 2nd line
;      [STIFF2]          ; 3rd line
;      [STIFF3]          ; 4th line
;      T1, T2, BT, HT          ; 5th line(PSC)
;      bSHEARCHK, [SCHK], [WT]          ; 6th line(PSC)
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc          ; 7th line(COMPOSITE-PC)
;      OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn          ; Outer Polygon(PLANE)
;      IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;      ...
;      IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;      VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn          ; Vertex(General-LINE)
;      LINE=VII, VJ1, dTHIK1, iALIGN1          ; Line(General-LINE)
;      ...
;      LINE=VIn, VJn, dTHIKn, iALIGNn          ; Line(General-LINE)
;      LOOP=COUNT1, LIX11, LIX12, ..., LIXn          ; Line(General-LINE)
;      ...
;      LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn          ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
;      [STIFF1-I]          ; 2nd line

```

```

; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
; [PART1]-I ; 2nd line
; [PART2]-I ; next lines
; ...
; [PART1]-J ; next lines
; [PART2]-J ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)

```

```

; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 1, VALUE , END BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE , CEN BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED , END-CEN BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED , CEN-END BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0

```

*STLDCASE ; Static Load Cases
 ; LCNAME, LCTYPE, DESC
 PSC범 차중, D ,
 바닥관 차중, D ,

*CONSTRAINT ; Supports
 ; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
 102to502by100 115to515by100 128to528by100, 111100,
 112to512by100 125to525by100 138to538by100, 011000,

*USE-STLD, PSC범 차중

*CONLOAD ; Nodal Loads

; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP

105, 0, 0, -8.554, 0, 0, 0,
106, 0, 0, -8.554, 0, 0, 0,
107, 0, 0, -8.554, 0, 0, 0,
108, 0, 0, -8.554, 0, 0, 0,
109, 0, 0, -8.554, 0, 0, 0,
118, 0, 0, -8.554, 0, 0, 0,
119, 0, 0, -8.554, 0, 0, 0,
120, 0, 0, -8.554, 0, 0, 0,
121, 0, 0, -8.554, 0, 0, 0,
122, 0, 0, -8.554, 0, 0, 0,
131, 0, 0, -8.554, 0, 0, 0,
132, 0, 0, -8.554, 0, 0, 0,
133, 0, 0, -8.554, 0, 0, 0,
134, 0, 0, -8.554, 0, 0, 0,
135, 0, 0, -8.554, 0, 0, 0,
205, 0, 0, -8.554, 0, 0, 0,
206, 0, 0, -8.554, 0, 0, 0,
207, 0, 0, -8.554, 0, 0, 0,
208, 0, 0, -8.554, 0, 0, 0,
209, 0, 0, -8.554, 0, 0, 0,
218, 0, 0, -8.554, 0, 0, 0,
219, 0, 0, -8.554, 0, 0, 0,
220, 0, 0, -8.554, 0, 0, 0,
221, 0, 0, -8.554, 0, 0, 0,
222, 0, 0, -8.554, 0, 0, 0,
231, 0, 0, -8.554, 0, 0, 0,
232, 0, 0, -8.554, 0, 0, 0,
233, 0, 0, -8.554, 0, 0, 0,
234, 0, 0, -8.554, 0, 0, 0,
235, 0, 0, -8.554, 0, 0, 0,
305, 0, 0, -8.554, 0, 0, 0,
306, 0, 0, -8.554, 0, 0, 0,
307, 0, 0, -8.554, 0, 0, 0,
308, 0, 0, -8.554, 0, 0, 0,
309, 0, 0, -8.554, 0, 0, 0,
318, 0, 0, -8.554, 0, 0, 0,
319, 0, 0, -8.554, 0, 0, 0,
320, 0, 0, -8.554, 0, 0, 0,
321, 0, 0, -8.554, 0, 0, 0,
322, 0, 0, -8.554, 0, 0, 0,
331, 0, 0, -8.554, 0, 0, 0,
332, 0, 0, -8.554, 0, 0, 0,
333, 0, 0, -8.554, 0, 0, 0,
334, 0, 0, -8.554, 0, 0, 0,
335, 0, 0, -8.554, 0, 0, 0,

405, 0, 0, -8.554, 0, 0, 0,
406, 0, 0, -8.554, 0, 0, 0,
407, 0, 0, -8.554, 0, 0, 0,
408, 0, 0, -8.554, 0, 0, 0,
409, 0, 0, -8.554, 0, 0, 0,
418, 0, 0, -8.554, 0, 0, 0,
419, 0, 0, -8.554, 0, 0, 0,
420, 0, 0, -8.554, 0, 0, 0,
421, 0, 0, -8.554, 0, 0, 0,
422, 0, 0, -8.554, 0, 0, 0,
431, 0, 0, -8.554, 0, 0, 0,
432, 0, 0, -8.554, 0, 0, 0,
433, 0, 0, -8.554, 0, 0, 0,
434, 0, 0, -8.554, 0, 0, 0,
435, 0, 0, -8.554, 0, 0, 0,
505, 0, 0, -8.554, 0, 0, 0,
506, 0, 0, -8.554, 0, 0, 0,
507, 0, 0, -8.554, 0, 0, 0,
508, 0, 0, -8.554, 0, 0, 0,
509, 0, 0, -8.554, 0, 0, 0,
518, 0, 0, -8.554, 0, 0, 0,
519, 0, 0, -8.554, 0, 0, 0,
520, 0, 0, -8.554, 0, 0, 0,
521, 0, 0, -8.554, 0, 0, 0,
522, 0, 0, -8.554, 0, 0, 0,
531, 0, 0, -8.554, 0, 0, 0,
532, 0, 0, -8.554, 0, 0, 0,
533, 0, 0, -8.554, 0, 0, 0,
534, 0, 0, -8.554, 0, 0, 0,
535, 0, 0, -8.554, 0, 0, 0,

*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
101, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
102, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
103, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
104, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
105, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
106, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
107, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
108, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
109, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO

112, 0, 0, -24.371, 0, 0, 0,
115, 0, 0, -24.371, 0, 0, 0,
118, 0, 0, -12.185, 0, 0, 0,
119, 0, 0, -12.185, 0, 0, 0,
120, 0, 0, -12.185, 0, 0, 0,
121, 0, 0, -12.185, 0, 0, 0,
122, 0, 0, -12.185, 0, 0, 0,
125, 0, 0, -24.371, 0, 0, 0,
128, 0, 0, -24.371, 0, 0, 0,
131, 0, 0, -12.185, 0, 0, 0,
132, 0, 0, -12.185, 0, 0, 0,
133, 0, 0, -12.185, 0, 0, 0,
134, 0, 0, -12.185, 0, 0, 0,
135, 0, 0, -12.185, 0, 0, 0,
138, 0, 0, -6.403, 0, 0, 0,
202, 0, 0, -12.806, 0, 0, 0,
205, 0, 0, -24.371, 0, 0, 0,
206, 0, 0, -24.371, 0, 0, 0,
207, 0, 0, -24.371, 0, 0, 0,
208, 0, 0, -24.371, 0, 0, 0,
209, 0, 0, -24.371, 0, 0, 0,
212, 0, 0, -48.742, 0, 0, 0,
215, 0, 0, -48.742, 0, 0, 0,
218, 0, 0, -24.371, 0, 0, 0,
219, 0, 0, -24.371, 0, 0, 0,
220, 0, 0, -24.371, 0, 0, 0,
221, 0, 0, -24.371, 0, 0, 0,
222, 0, 0, -24.371, 0, 0, 0,
225, 0, 0, -48.742, 0, 0, 0,
228, 0, 0, -48.742, 0, 0, 0,
231, 0, 0, -24.371, 0, 0, 0,
232, 0, 0, -24.371, 0, 0, 0,
233, 0, 0, -24.371, 0, 0, 0,
234, 0, 0, -24.371, 0, 0, 0,
235, 0, 0, -24.371, 0, 0, 0,
238, 0, 0, -12.806, 0, 0, 0,
302, 0, 0, -12.806, 0, 0, 0,
305, 0, 0, -24.371, 0, 0, 0,
306, 0, 0, -24.371, 0, 0, 0,
307, 0, 0, -24.371, 0, 0, 0,
308, 0, 0, -24.371, 0, 0, 0,
309, 0, 0, -24.371, 0, 0, 0,
312, 0, 0, -48.742, 0, 0, 0,
315, 0, 0, -48.742, 0, 0, 0,
318, 0, 0, -24.371, 0, 0, 0,
319, 0, 0, -24.371, 0, 0, 0,

320, 0, 0, -24.371, 0, 0, 0,
321, 0, 0, -24.371, 0, 0, 0,
322, 0, 0, -24.371, 0, 0, 0,
325, 0, 0, -48.742, 0, 0, 0,
328, 0, 0, -48.742, 0, 0, 0,
331, 0, 0, -24.371, 0, 0, 0,
332, 0, 0, -24.371, 0, 0, 0,
333, 0, 0, -24.371, 0, 0, 0,
334, 0, 0, -24.371, 0, 0, 0,
335, 0, 0, -24.371, 0, 0, 0,
338, 0, 0, -12.806, 0, 0, 0,
402, 0, 0, -12.806, 0, 0, 0,
405, 0, 0, -24.371, 0, 0, 0,
406, 0, 0, -24.371, 0, 0, 0,
407, 0, 0, -24.371, 0, 0, 0,
408, 0, 0, -24.371, 0, 0, 0,
409, 0, 0, -24.371, 0, 0, 0,
412, 0, 0, -48.742, 0, 0, 0,
415, 0, 0, -48.742, 0, 0, 0,
418, 0, 0, -24.371, 0, 0, 0,
419, 0, 0, -24.371, 0, 0, 0,
420, 0, 0, -24.371, 0, 0, 0,
421, 0, 0, -24.371, 0, 0, 0,
422, 0, 0, -24.371, 0, 0, 0,
425, 0, 0, -48.742, 0, 0, 0,
428, 0, 0, -48.742, 0, 0, 0,
431, 0, 0, -24.371, 0, 0, 0,
432, 0, 0, -24.371, 0, 0, 0,
433, 0, 0, -24.371, 0, 0, 0,
434, 0, 0, -24.371, 0, 0, 0,
435, 0, 0, -24.371, 0, 0, 0,
438, 0, 0, -12.806, 0, 0, 0,
502, 0, 0, -6.403, 0, 0, 0,
505, 0, 0, -12.185, 0, 0, 0,
506, 0, 0, -12.185, 0, 0, 0,
507, 0, 0, -12.185, 0, 0, 0,
508, 0, 0, -12.185, 0, 0, 0,
509, 0, 0, -12.185, 0, 0, 0,
512, 0, 0, -24.371, 0, 0, 0,
515, 0, 0, -24.371, 0, 0, 0,
518, 0, 0, -12.185, 0, 0, 0,
519, 0, 0, -12.185, 0, 0, 0,
520, 0, 0, -12.185, 0, 0, 0,
521, 0, 0, -12.185, 0, 0, 0,
522, 0, 0, -12.185, 0, 0, 0,
525, 0, 0, -24.371, 0, 0, 0,

```

: 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

101, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
102, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
103, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
104, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
105, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
106, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
107, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
108, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
109, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
110, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
111, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
112, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
113, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
114, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
115, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
116, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
117, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
118, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
119, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
120, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
121, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
122, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
123, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
124, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
125, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
126, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
127, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
128, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
129, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
130, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
131, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
132, BEAM    , UNILoad, GZ, NO , NO, aDir[1], , , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO

```

[illegible]

527, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
528, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
529, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
530, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
531, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
532, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
533, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
534, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
535, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
536, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [바닥판 자중] -----

*MVLDCODE ; Moving Load Code
; CODE=CODE
CODE=NONE

*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, 바닥판 자중, 0, 192, 128, 255, 128, 0, 160, 192, 255
ST, PSC빔 자중, 160, 192, 255, 0, 192, 192, 192, 72, 0

*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRs, bCRBAR, bTPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO

*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
; [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 , C40 , 1, KS01-Civil(RC), ,C40 , , , , 0, 0, 28000, NO, 0, 0

*ENDDATA

3. 합성후

; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

*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
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE ; Nodes
; iNO, X, Y, Z
101, 0, 5, 0
102, 0.4, 5, 0
103, 0.6, 5, 0
104, 4, 5, 0
105, 5.25, 5, 0
106, 10.1, 5, 0
107, 14.95, 5, 0
108, 19.8, 5, 0
109, 24.65, 5, 0
110, 25.9, 5, 0
111, 29.3, 5, 0
112, 29.5, 5, 0
113, 29.9, 5, 0
114, 30, 5, 0
115, 30.4, 5, 0
116, 30.6, 5, 0
117, 34, 5, 0
118, 35.25, 5, 0
119, 40.1, 5, 0
120, 44.95, 5, 0
121, 49.8, 5, 0
122, 54.65, 5, 0
123, 55.9, 5, 0
124, 59.3, 5, 0
125, 59.5, 5, 0

126, 59.9, 5, 0
127, 60, 5, 0
128, 60.4, 5, 0
129, 60.6, 5, 0
130, 64, 5, 0
131, 65.25, 5, 0
132, 70.1, 5, 0
133, 74.95, 5, 0
134, 79.8, 5, 0
135, 84.65, 5, 0
136, 85.9, 5, 0
137, 89.3, 5, 0
138, 89.5, 5, 0
139, 89.9, 5, 0
201, 0, 2.5, 0
202, 0.4, 2.5, 0
203, 0.6, 2.5, 0
204, 4, 2.5, 0
205, 5.25, 2.5, 0
206, 10.1, 2.5, 0
207, 14.95, 2.5, 0
208, 19.8, 2.5, 0
209, 24.65, 2.5, 0
210, 25.9, 2.5, 0
211, 29.3, 2.5, 0
212, 29.5, 2.5, 0
213, 29.9, 2.5, 0
214, 30, 2.5, 0
215, 30.4, 2.5, 0
216, 30.6, 2.5, 0
217, 34, 2.5, 0
218, 35.25, 2.5, 0
219, 40.1, 2.5, 0
220, 44.95, 2.5, 0
221, 49.8, 2.5, 0
222, 54.65, 2.5, 0
223, 55.9, 2.5, 0
224, 59.3, 2.5, 0
225, 59.5, 2.5, 0
226, 59.9, 2.5, 0
227, 60, 2.5, 0
228, 60.4, 2.5, 0
229, 60.6, 2.5, 0
230, 64, 2.5, 0
231, 65.25, 2.5, 0
232, 70.1, 2.5, 0

233, 74.95, 2.5, 0
234, 79.8, 2.5, 0
235, 84.65, 2.5, 0
236, 85.9, 2.5, 0
237, 89.3, 2.5, 0
238, 89.5, 2.5, 0
239, 89.9, 2.5, 0
301, 0, 0, 0
302, 0.4, 0, 0
303, 0.6, 0, 0
304, 4, 0, 0
305, 5.25, 0, 0
306, 10.1, 0, 0
307, 14.95, 0, 0
308, 19.8, 0, 0
309, 24.65, 0, 0
310, 25.9, 0, 0
311, 29.3, 0, 0
312, 29.5, 0, 0
313, 29.9, 0, 0
314, 30, 0, 0
315, 30.4, 0, 0
316, 30.6, 0, 0
317, 34, 0, 0
318, 35.25, 0, 0
319, 40.1, 0, 0
320, 44.95, 0, 0
321, 49.8, 0, 0
322, 54.65, 0, 0
323, 55.9, 0, 0
324, 59.3, 0, 0
325, 59.5, 0, 0
326, 59.9, 0, 0
327, 60, 0, 0
328, 60.4, 0, 0
329, 60.6, 0, 0
330, 64, 0, 0
331, 65.25, 0, 0
332, 70.1, 0, 0
333, 74.95, 0, 0
334, 79.8, 0, 0
335, 84.65, 0, 0
336, 85.9, 0, 0
337, 89.3, 0, 0
338, 89.5, 0, 0
339, 89.9, 0, 0

401, 0, -2.5, 0
402, 0.4, -2.5, 0
403, 0.6, -2.5, 0
404, 4, -2.5, 0
405, 5.25, -2.5, 0
406, 10.1, -2.5, 0
407, 14.95, -2.5, 0
408, 19.8, -2.5, 0
409, 24.65, -2.5, 0
410, 25.9, -2.5, 0
411, 29.3, -2.5, 0
412, 29.5, -2.5, 0
413, 29.9, -2.5, 0
414, 30, -2.5, 0
415, 30.4, -2.5, 0
416, 30.6, -2.5, 0
417, 34, -2.5, 0
418, 35.25, -2.5, 0
419, 40.1, -2.5, 0
420, 44.95, -2.5, 0
421, 49.8, -2.5, 0
422, 54.65, -2.5, 0
423, 55.9, -2.5, 0
424, 59.3, -2.5, 0
425, 59.5, -2.5, 0
426, 59.9, -2.5, 0
427, 60, -2.5, 0
428, 60.4, -2.5, 0
429, 60.6, -2.5, 0
430, 64, -2.5, 0
431, 65.25, -2.5, 0
432, 70.1, -2.5, 0
433, 74.95, -2.5, 0
434, 79.8, -2.5, 0
435, 84.65, -2.5, 0
436, 85.9, -2.5, 0
437, 89.3, -2.5, 0
438, 89.5, -2.5, 0
439, 89.9, -2.5, 0
501, 0, -5, 0
502, 0.4, -5, 0
503, 0.6, -5, 0
504, 4, -5, 0
505, 5.25, -5, 0
506, 10.1, -5, 0
507, 14.95, -5, 0

508, 19.8, -5, 0
509, 24.65, -5, 0
510, 25.9, -5, 0
511, 29.3, -5, 0
512, 29.5, -5, 0
513, 29.9, -5, 0
514, 30, -5, 0
515, 30.4, -5, 0
516, 30.6, -5, 0
517, 34, -5, 0
518, 35.25, -5, 0
519, 40.1, -5, 0
520, 44.95, -5, 0
521, 49.8, -5, 0
522, 54.65, -5, 0
523, 55.9, -5, 0
524, 59.3, -5, 0
525, 59.5, -5, 0
526, 59.9, -5, 0
527, 60, -5, 0
528, 60.4, -5, 0
529, 60.6, -5, 0
530, 64, -5, 0
531, 65.25, -5, 0
532, 70.1, -5, 0
533, 74.95, -5, 0
534, 79.8, -5, 0
535, 84.65, -5, 0
536, 85.9, -5, 0
537, 89.3, -5, 0
538, 89.5, -5, 0
539, 89.9, -5, 0
1001, 0.4, 5, -1.461
1002, 0.4, 2.5, -1.461
1003, 0.4, 0, -1.461
1004, 0.4, -2.5, -1.461
1005, 0.4, -5, -1.461
1006, 29.5, 5, -1.461
1007, 29.5, 2.5, -1.461
1008, 29.5, 0, -1.461
1009, 29.5, -2.5, -1.461
1010, 29.5, -5, -1.461
1011, 30.4, 5, -1.461
1012, 30.4, 2.5, -1.461
1013, 30.4, 0, -1.461
1014, 30.4, -2.5, -1.461

1015, 30.4, -5, -1.461
1016, 59.5, 5, -1.461
1017, 59.5, 2.5, -1.461
1018, 59.5, 0, -1.461
1019, 59.5, -2.5, -1.461
1020, 59.5, -5, -1.461
1021, 60.4, 5, -1.461
1022, 60.4, 2.5, -1.461
1023, 60.4, 0, -1.461
1024, 60.4, -2.5, -1.461
1025, 60.4, -5, -1.461
1026, 89.5, 5, -1.461
1027, 89.5, 2.5, -1.461
1028, 89.5, 0, -1.461
1029, 89.5, -2.5, -1.461
1030, 89.5, -5, -1.461
2001, 0.4, 5, -1.861
2002, 0.4, 2.5, -1.861
2003, 0.4, 0, -1.861
2004, 0.4, -2.5, -1.861
2005, 0.4, -5, -1.861
2006, 29.5, 5, -1.861
2007, 29.5, 2.5, -1.861
2008, 29.5, 0, -1.861
2009, 29.5, -2.5, -1.861
2010, 29.5, -5, -1.861
2011, 30.4, 5, -1.861
2012, 30.4, 2.5, -1.861
2013, 30.4, 0, -1.861
2014, 30.4, -2.5, -1.861
2015, 30.4, -5, -1.861
2016, 59.5, 5, -1.861
2017, 59.5, 2.5, -1.861
2018, 59.5, 0, -1.861
2019, 59.5, -2.5, -1.861
2020, 59.5, -5, -1.861
2021, 60.4, 5, -1.861
2022, 60.4, 2.5, -1.861
2023, 60.4, 0, -1.861
2024, 60.4, -2.5, -1.861
2025, 60.4, -5, -1.861
2026, 89.5, 5, -1.861
2027, 89.5, 2.5, -1.861
2028, 89.5, 0, -1.861
2029, 89.5, -2.5, -1.861
2030, 89.5, -5, -1.861

*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, RPZ, iSUB, EXVAL ; Frame(Ref. Point)
1, BEAM , 2, 5, 202, 102, 0
2, BEAM , 2, 5, 302, 202, 0
3, BEAM , 2, 5, 402, 302, 0
4, BEAM , 2, 5, 502, 402, 0
5, BEAM , 2, 7, 205, 105, 0
6, BEAM , 2, 7, 305, 205, 0
7, BEAM , 2, 7, 405, 305, 0
8, BEAM , 2, 7, 505, 405, 0
9, BEAM , 2, 7, 206, 106, 0
10, BEAM , 2, 7, 306, 206, 0
11, BEAM , 2, 7, 406, 306, 0
12, BEAM , 2, 7, 506, 406, 0
13, BEAM , 2, 7, 207, 107, 0
14, BEAM , 2, 7, 307, 207, 0
15, BEAM , 2, 7, 407, 307, 0
16, BEAM , 2, 7, 507, 407, 0
17, BEAM , 2, 7, 208, 108, 0
18, BEAM , 2, 7, 308, 208, 0
19, BEAM , 2, 7, 408, 308, 0
20, BEAM , 2, 7, 508, 408, 0
21, BEAM , 2, 7, 209, 109, 0
22, BEAM , 2, 7, 309, 209, 0
23, BEAM , 2, 7, 409, 309, 0
24, BEAM , 2, 7, 509, 409, 0
25, BEAM , 2, 6, 212, 112, 0
26, BEAM , 2, 6, 312, 212, 0
27, BEAM , 2, 6, 412, 312, 0
28, BEAM , 2, 6, 512, 412, 0
29, BEAM , 2, 6, 215, 115, 0
30, BEAM , 2, 6, 315, 215, 0
31, BEAM , 2, 6, 415, 315, 0
32, BEAM , 2, 6, 515, 415, 0
33, BEAM , 2, 7, 218, 118, 0
34, BEAM , 2, 7, 318, 218, 0
35, BEAM , 2, 7, 418, 318, 0
36, BEAM , 2, 7, 518, 418, 0
37, BEAM , 2, 7, 219, 119, 0
38, BEAM , 2, 7, 319, 219, 0
39, BEAM , 2, 7, 419, 319, 0

40, BEAM	,	2,	7,	519,	419,	0
41, BEAM	,	2,	7,	220,	120,	0
42, BEAM	,	2,	7,	320,	220,	0
43, BEAM	,	2,	7,	420,	320,	0
44, BEAM	,	2,	7,	520,	420,	0
45, BEAM	,	2,	7,	221,	121,	0
46, BEAM	,	2,	7,	321,	221,	0
47, BEAM	,	2,	7,	421,	321,	0
48, BEAM	,	2,	7,	521,	421,	0
49, BEAM	,	2,	7,	222,	122,	0
50, BEAM	,	2,	7,	322,	222,	0
51, BEAM	,	2,	7,	422,	322,	0
52, BEAM	,	2,	7,	522,	422,	0
53, BEAM	,	2,	6,	225,	125,	0
54, BEAM	,	2,	6,	325,	225,	0
55, BEAM	,	2,	6,	425,	325,	0
56, BEAM	,	2,	6,	525,	425,	0
57, BEAM	,	2,	6,	228,	128,	0
58, BEAM	,	2,	6,	328,	228,	0
59, BEAM	,	2,	6,	428,	328,	0
60, BEAM	,	2,	6,	528,	428,	0
61, BEAM	,	2,	7,	231,	131,	0
62, BEAM	,	2,	7,	331,	231,	0
63, BEAM	,	2,	7,	431,	331,	0
64, BEAM	,	2,	7,	531,	431,	0
65, BEAM	,	2,	7,	232,	132,	0
66, BEAM	,	2,	7,	332,	232,	0
67, BEAM	,	2,	7,	432,	332,	0
68, BEAM	,	2,	7,	532,	432,	0
69, BEAM	,	2,	7,	233,	133,	0
70, BEAM	,	2,	7,	333,	233,	0
71, BEAM	,	2,	7,	433,	333,	0
72, BEAM	,	2,	7,	533,	433,	0
73, BEAM	,	2,	7,	234,	134,	0
74, BEAM	,	2,	7,	334,	234,	0
75, BEAM	,	2,	7,	434,	334,	0
76, BEAM	,	2,	7,	534,	434,	0
77, BEAM	,	2,	7,	235,	135,	0
78, BEAM	,	2,	7,	335,	235,	0
79, BEAM	,	2,	7,	435,	335,	0
80, BEAM	,	2,	7,	535,	435,	0
81, BEAM	,	2,	5,	238,	138,	0
82, BEAM	,	2,	5,	338,	238,	0
83, BEAM	,	2,	5,	438,	338,	0
84, BEAM	,	2,	5,	538,	438,	0
101, BEAM	,	1,	1,	101,	102,	0

102, BEAM	,	1,	1,	102,	103,	0
103, BEAM	,	1,	3,	103,	104,	0
104, BEAM	,	1,	2,	104,	105,	0
105, BEAM	,	1,	2,	105,	106,	0
106, BEAM	,	1,	2,	106,	107,	0
107, BEAM	,	1,	2,	107,	108,	0
108, BEAM	,	1,	2,	108,	109,	0
109, BEAM	,	1,	2,	109,	110,	0
110, BEAM	,	1,	4,	110,	111,	0
111, BEAM	,	1,	1,	111,	112,	0
112, BEAM	,	1,	1,	112,	113,	0
113, BEAM	,	1,	1,	113,	114,	0
114, BEAM	,	1,	1,	114,	115,	0
115, BEAM	,	1,	1,	115,	116,	0
116, BEAM	,	1,	3,	116,	117,	0
117, BEAM	,	1,	2,	117,	118,	0
118, BEAM	,	1,	2,	118,	119,	0
119, BEAM	,	1,	2,	119,	120,	0
120, BEAM	,	1,	2,	120,	121,	0
121, BEAM	,	1,	2,	121,	122,	0
122, BEAM	,	1,	2,	122,	123,	0
123, BEAM	,	1,	4,	123,	124,	0
124, BEAM	,	1,	1,	124,	125,	0
125, BEAM	,	1,	1,	125,	126,	0
126, BEAM	,	1,	1,	126,	127,	0
127, BEAM	,	1,	1,	127,	128,	0
128, BEAM	,	1,	1,	128,	129,	0
129, BEAM	,	1,	3,	129,	130,	0
130, BEAM	,	1,	2,	130,	131,	0
131, BEAM	,	1,	2,	131,	132,	0
132, BEAM	,	1,	2,	132,	133,	0
133, BEAM	,	1,	2,	133,	134,	0
134, BEAM	,	1,	2,	134,	135,	0
135, BEAM	,	1,	2,	135,	136,	0
136, BEAM	,	1,	4,	136,	137,	0
137, BEAM	,	1,	1,	137,	138,	0
138, BEAM	,	1,	1,	138,	139,	0
201, BEAM	,	1,	8,	201,	202,	0
202, BEAM	,	1,	8,	202,	203,	0
203, BEAM	,	1,	10,	203,	204,	0
204, BEAM	,	1,	9,	204,	205,	0
205, BEAM	,	1,	9,	205,	206,	0
206, BEAM	,	1,	9,	206,	207,	0
207, BEAM	,	1,	9,	207,	208,	0
208, BEAM	,	1,	9,	208,	209,	0
209, BEAM	,	1,	9,	209,	210,	0

210, BEAM	,	1,	11,	210,	211,	0
211, BEAM	,	1,	8,	211,	212,	0
212, BEAM	,	1,	8,	212,	213,	0
213, BEAM	,	1,	8,	213,	214,	0
214, BEAM	,	1,	8,	214,	215,	0
215, BEAM	,	1,	8,	215,	216,	0
216, BEAM	,	1,	10,	216,	217,	0
217, BEAM	,	1,	9,	217,	218,	0
218, BEAM	,	1,	9,	218,	219,	0
219, BEAM	,	1,	9,	219,	220,	0
220, BEAM	,	1,	9,	220,	221,	0
221, BEAM	,	1,	9,	221,	222,	0
222, BEAM	,	1,	9,	222,	223,	0
223, BEAM	,	1,	11,	223,	224,	0
224, BEAM	,	1,	8,	224,	225,	0
225, BEAM	,	1,	8,	225,	226,	0
226, BEAM	,	1,	8,	226,	227,	0
227, BEAM	,	1,	8,	227,	228,	0
228, BEAM	,	1,	8,	228,	229,	0
229, BEAM	,	1,	10,	229,	230,	0
230, BEAM	,	1,	9,	230,	231,	0
231, BEAM	,	1,	9,	231,	232,	0
232, BEAM	,	1,	9,	232,	233,	0
233, BEAM	,	1,	9,	233,	234,	0
234, BEAM	,	1,	9,	234,	235,	0
235, BEAM	,	1,	9,	235,	236,	0
236, BEAM	,	1,	11,	236,	237,	0
237, BEAM	,	1,	8,	237,	238,	0
238, BEAM	,	1,	8,	238,	239,	0
301, BEAM	,	1,	8,	301,	302,	0
302, BEAM	,	1,	8,	302,	303,	0
303, BEAM	,	1,	10,	303,	304,	0
304, BEAM	,	1,	9,	304,	305,	0
305, BEAM	,	1,	9,	305,	306,	0
306, BEAM	,	1,	9,	306,	307,	0
307, BEAM	,	1,	9,	307,	308,	0
308, BEAM	,	1,	9,	308,	309,	0
309, BEAM	,	1,	9,	309,	310,	0
310, BEAM	,	1,	11,	310,	311,	0
311, BEAM	,	1,	8,	311,	312,	0
312, BEAM	,	1,	8,	312,	313,	0
313, BEAM	,	1,	8,	313,	314,	0
314, BEAM	,	1,	8,	314,	315,	0
315, BEAM	,	1,	8,	315,	316,	0
316, BEAM	,	1,	10,	316,	317,	0
317, BEAM	,	1,	9,	317,	318,	0

318, BEAM	,	1,	9,	318,	319,	0
319, BEAM	,	1,	9,	319,	320,	0
320, BEAM	,	1,	9,	320,	321,	0
321, BEAM	,	1,	9,	321,	322,	0
322, BEAM	,	1,	9,	322,	323,	0
323, BEAM	,	1,	11,	323,	324,	0
324, BEAM	,	1,	8,	324,	325,	0
325, BEAM	,	1,	8,	325,	326,	0
326, BEAM	,	1,	8,	326,	327,	0
327, BEAM	,	1,	8,	327,	328,	0
328, BEAM	,	1,	8,	328,	329,	0
329, BEAM	,	1,	10,	329,	330,	0
330, BEAM	,	1,	9,	330,	331,	0
331, BEAM	,	1,	9,	331,	332,	0
332, BEAM	,	1,	9,	332,	333,	0
333, BEAM	,	1,	9,	333,	334,	0
334, BEAM	,	1,	9,	334,	335,	0
335, BEAM	,	1,	9,	335,	336,	0
336, BEAM	,	1,	11,	336,	337,	0
337, BEAM	,	1,	8,	337,	338,	0
338, BEAM	,	1,	8,	338,	339,	0
401, BEAM	,	1,	8,	401,	402,	0
402, BEAM	,	1,	8,	402,	403,	0
403, BEAM	,	1,	10,	403,	404,	0
404, BEAM	,	1,	9,	404,	405,	0
405, BEAM	,	1,	9,	405,	406,	0
406, BEAM	,	1,	9,	406,	407,	0
407, BEAM	,	1,	9,	407,	408,	0
408, BEAM	,	1,	9,	408,	409,	0
409, BEAM	,	1,	9,	409,	410,	0
410, BEAM	,	1,	11,	410,	411,	0
411, BEAM	,	1,	8,	411,	412,	0
412, BEAM	,	1,	8,	412,	413,	0
413, BEAM	,	1,	8,	413,	414,	0
414, BEAM	,	1,	8,	414,	415,	0
415, BEAM	,	1,	8,	415,	416,	0
416, BEAM	,	1,	10,	416,	417,	0
417, BEAM	,	1,	9,	417,	418,	0
418, BEAM	,	1,	9,	418,	419,	0
419, BEAM	,	1,	9,	419,	420,	0
420, BEAM	,	1,	9,	420,	421,	0
421, BEAM	,	1,	9,	421,	422,	0
422, BEAM	,	1,	9,	422,	423,	0
423, BEAM	,	1,	11,	423,	424,	0
424, BEAM	,	1,	8,	424,	425,	0
425, BEAM	,	1,	8,	425,	426,	0

426, BEAM , 1, 8, 426, 427, 0
427, BEAM , 1, 8, 427, 428, 0
428, BEAM , 1, 8, 428, 429, 0
429, BEAM , 1, 10, 429, 430, 0
430, BEAM , 1, 9, 430, 431, 0
431, BEAM , 1, 9, 431, 432, 0
432, BEAM , 1, 9, 432, 433, 0
433, BEAM , 1, 9, 433, 434, 0
434, BEAM , 1, 9, 434, 435, 0
435, BEAM , 1, 9, 435, 436, 0
436, BEAM , 1, 11, 436, 437, 0
437, BEAM , 1, 8, 437, 438, 0
438, BEAM , 1, 8, 438, 439, 0
501, BEAM , 1, 1, 501, 502, 0
502, BEAM , 1, 1, 502, 503, 0
503, BEAM , 1, 3, 503, 504, 0
504, BEAM , 1, 2, 504, 505, 0
505, BEAM , 1, 2, 505, 506, 0
506, BEAM , 1, 2, 506, 507, 0
507, BEAM , 1, 2, 507, 508, 0
508, BEAM , 1, 2, 508, 509, 0
509, BEAM , 1, 2, 509, 510, 0
510, BEAM , 1, 4, 510, 511, 0
511, BEAM , 1, 1, 511, 512, 0
512, BEAM , 1, 1, 512, 513, 0
513, BEAM , 1, 1, 513, 514, 0
514, BEAM , 1, 1, 514, 515, 0
515, BEAM , 1, 1, 515, 516, 0
516, BEAM , 1, 3, 516, 517, 0
517, BEAM , 1, 2, 517, 518, 0
518, BEAM , 1, 2, 518, 519, 0
519, BEAM , 1, 2, 519, 520, 0
520, BEAM , 1, 2, 520, 521, 0
521, BEAM , 1, 2, 521, 522, 0
522, BEAM , 1, 2, 522, 523, 0
523, BEAM , 1, 4, 523, 524, 0
524, BEAM , 1, 1, 524, 525, 0
525, BEAM , 1, 1, 525, 526, 0
526, BEAM , 1, 1, 526, 527, 0
527, BEAM , 1, 1, 527, 528, 0
528, BEAM , 1, 1, 528, 529, 0
529, BEAM , 1, 3, 529, 530, 0
530, BEAM , 1, 2, 530, 531, 0
531, BEAM , 1, 2, 531, 532, 0
532, BEAM , 1, 2, 532, 533, 0
533, BEAM , 1, 2, 533, 534, 0

534, BEAM , 1, 2, 534, 535, 0
535, BEAM , 1, 2, 535, 536, 0
536, BEAM , 1, 4, 536, 537, 0
537, BEAM , 1, 1, 537, 538, 0
538, BEAM , 1, 1, 538, 539, 0

*GROUP ; Group
; NAME, NODE_LIST, ELEM_LIST

지간 중앙 , ,
교대 단부 지점, 102to502by100,
연속지점부 , ,
중간가로보 지점, ,
중앙단면 , 104to504by100,
내측거더 중앙단면, 204 304 404,
외측거더 중앙단면, 104 504,
가로보1 , ,
가로보2 , ,
가로보3 , ,
가로보4 , ,

*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 ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C40 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , C40
2, CONC , C27 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , C27

*MATL-COLOR
; iMAT, W_R, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 255, 77, 77, 192, 220, 192, NO, 0.5
2, 255, 0, 0, 255, 77, 77, 192, 220, 192, NO, 0.5

*SECT-PSCVALUE ; PSC Value, General Section, Composite PC, Composite General
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)

```

; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line - COMPOSITE-GEN(TAPERED)
; [PART1-I] ; 2nd line
; [PART2-I] ; next lines
; ...
; [PART1-J] ; next lines
; [PART2-J] ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz

```

```

; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 1, VALUE , END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE , CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED , END-CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED , CEN-END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 8, VALUE , END BM(AC)-Inside , CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0

```

```

0, 0, 0, 0, 0, 0, 0, 0
SECT= 9, VALUE , CEN BM(AC)-Inside , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 10, TAPERED , END-CEN BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 11, TAPERED , CEN-END BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0

*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 ; 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, 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 ; 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
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

```



```

; 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
; 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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

```

```

5, DBUSER , END CROSS BM , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.7, 0.4, 0, 0, 0, 0, 0, 0
6, DBUSER , CON CROSS BM , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.6, 0, 0, 0, 0, 0, 0
7, DBUSER , CEN CROSS BM , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.3, 0, 0, 0, 0, 0, 0

```

```

*DGN-SECT-PSCVALUE ; Design Section of PSC Value
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=V11, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line

```

```

; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
; [PART1-I] ; 2nd line
; [PART2-I] ; next lines
; ...
; [PART1-J] ; next lines
; [PART2-J] ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)

```

```

; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 1, VALUE , END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE , CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED , END-CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED , CEN-END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 8, VALUE , END BM(AC)-Inside , CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 9, VALUE , CEN BM(AC)-Inside , CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 10, TAPERED , END-CEN BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 11, TAPERED , CEN-END BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137

```

0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0

*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
합성후 고정하중, D , "합성후 고정하중(포장, 방호벽, 증분대)"

*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
2001to2030, 111111,

*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
2, 2005, 1005, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
3, 2004, 1004, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
4, 2003, 1003, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
5, 2002, 1002, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
6, 2001, 1001, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
8, 2010, 1010, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
9, 2009, 1009, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
10, 2008, 1008, GEN , 0, 600000, 1e+011, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
11, 2007, 1007, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
12, 2006, 1006, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
14, 2015, 1015, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
15, 2014, 1014, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
16, 2013, 1013, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
17, 2012, 1012, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
18, 2011, 1011, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
20, 2020, 1020, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
21, 2019, 1019, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
22, 2018, 1018, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
23, 2017, 1017, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
24, 2016, 1016, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
26, 2025, 1025, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
27, 2024, 1024, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
28, 2023, 1023, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,

29, 2022, 1022, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
30, 2021, 1021, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
32, 2030, 1030, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
33, 2029, 1029, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
34, 2028, 1028, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
35, 2027, 1027, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
36, 2026, 1026, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,

*OFFSET ; Beam End Offsets
; ELEM_LIST, TYPE, RGDxi, RGDYi, RGDZi, RGDxj, RGDYj, RGDZj, GROUP ; TYPE=GLOBAL
; ELEM_LIST, TYPE, RGDj, RGDj, GROUP ; TYPE=ELEMENT
1, ELEMENT, 0.33, 0.33,
2, ELEMENT, 0.33, 0.33,
3, ELEMENT, 0.33, 0.33,
4, ELEMENT, 0.33, 0.33,
5, ELEMENT, 0.33, 0.33,
6, ELEMENT, 0.33, 0.33,
7, ELEMENT, 0.33, 0.33,
8, ELEMENT, 0.33, 0.33,
9, ELEMENT, 0.33, 0.33,
10, ELEMENT, 0.33, 0.33,
11, ELEMENT, 0.33, 0.33,
12, ELEMENT, 0.33, 0.33,
13, ELEMENT, 0.33, 0.33,
14, ELEMENT, 0.33, 0.33,
15, ELEMENT, 0.33, 0.33,
16, ELEMENT, 0.33, 0.33,
17, ELEMENT, 0.33, 0.33,
18, ELEMENT, 0.33, 0.33,
19, ELEMENT, 0.33, 0.33,
20, ELEMENT, 0.33, 0.33,
21, ELEMENT, 0.33, 0.33,
22, ELEMENT, 0.33, 0.33,
23, ELEMENT, 0.33, 0.33,
24, ELEMENT, 0.33, 0.33,
25, ELEMENT, 0.33, 0.33,
26, ELEMENT, 0.33, 0.33,
27, ELEMENT, 0.33, 0.33,
28, ELEMENT, 0.33, 0.33,
29, ELEMENT, 0.33, 0.33,
30, ELEMENT, 0.33, 0.33,
31, ELEMENT, 0.33, 0.33,
32, ELEMENT, 0.33, 0.33,
33, ELEMENT, 0.33, 0.33,
34, ELEMENT, 0.33, 0.33,
35, ELEMENT, 0.33, 0.33,

36, ELEMENT, 0.33, 0.33,
37, ELEMENT, 0.33, 0.33,
38, ELEMENT, 0.33, 0.33,
39, ELEMENT, 0.33, 0.33,
40, ELEMENT, 0.33, 0.33,
41, ELEMENT, 0.33, 0.33,
42, ELEMENT, 0.33, 0.33,
43, ELEMENT, 0.33, 0.33,
44, ELEMENT, 0.33, 0.33,
45, ELEMENT, 0.33, 0.33,
46, ELEMENT, 0.33, 0.33,
47, ELEMENT, 0.33, 0.33,
48, ELEMENT, 0.33, 0.33,
49, ELEMENT, 0.33, 0.33,
50, ELEMENT, 0.33, 0.33,
51, ELEMENT, 0.33, 0.33,
52, ELEMENT, 0.33, 0.33,
53, ELEMENT, 0.33, 0.33,
54, ELEMENT, 0.33, 0.33,
55, ELEMENT, 0.33, 0.33,
56, ELEMENT, 0.33, 0.33,
57, ELEMENT, 0.33, 0.33,
58, ELEMENT, 0.33, 0.33,
59, ELEMENT, 0.33, 0.33,
60, ELEMENT, 0.33, 0.33,
61, ELEMENT, 0.33, 0.33,
62, ELEMENT, 0.33, 0.33,
63, ELEMENT, 0.33, 0.33,
64, ELEMENT, 0.33, 0.33,
65, ELEMENT, 0.33, 0.33,
66, ELEMENT, 0.33, 0.33,
67, ELEMENT, 0.33, 0.33,
68, ELEMENT, 0.33, 0.33,
69, ELEMENT, 0.33, 0.33,
70, ELEMENT, 0.33, 0.33,
71, ELEMENT, 0.33, 0.33,
72, ELEMENT, 0.33, 0.33,
73, ELEMENT, 0.33, 0.33,
74, ELEMENT, 0.33, 0.33,
75, ELEMENT, 0.33, 0.33,
76, ELEMENT, 0.33, 0.33,
77, ELEMENT, 0.33, 0.33,
78, ELEMENT, 0.33, 0.33,
79, ELEMENT, 0.33, 0.33,
80, ELEMENT, 0.33, 0.33,
81, ELEMENT, 0.33, 0.33,

82, ELEMENT, 0.33, 0.33,
83, ELEMENT, 0.33, 0.33,
84, ELEMENT, 0.33, 0.33,

*RIGIDLINK ; Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
102, 111111, 1001,
112, 111111, 1006,
115, 111111, 1011,
125, 111111, 1016,
128, 111111, 1021,
138, 111111, 1026,
202, 111111, 1002,
212, 111111, 1007,
215, 111111, 1012,
225, 111111, 1017,
228, 111111, 1022,
238, 111111, 1027,
302, 111111, 1003,
312, 111111, 1008,
315, 111111, 1013,
325, 111111, 1018,
328, 111111, 1023,
338, 111111, 1028,
402, 111111, 1004,
412, 111111, 1009,
415, 111111, 1014,
425, 111111, 1019,
428, 111111, 1024,
438, 111111, 1029,
502, 111111, 1005,
512, 111111, 1010,
515, 111111, 1015,
525, 111111, 1020,
528, 111111, 1025,
538, 111111, 1030,

*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
; [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
101, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -15.265, 1, -15.265, 0, 0, 0, 0, , NO, 0, 0, NO

534, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
535, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
536, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
537, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
538, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [합성후 고정하중] -----

*MVLDCODE ; 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=L1(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8

501, -0.733, 0.217, NO, 502, -0.733, 0.217, YES
503, -0.733, 0.217, NO, 504, -0.733, 0.217, NO
505, -0.733, 0.217, NO, 506, -0.733, 0.217, NO
507, -0.733, 0.217, NO, 508, -0.733, 0.217, NO
509, -0.733, 0.217, NO, 510, -0.733, 0.217, NO
511, -0.733, 0.217, NO, 512, -0.733, 0.217, NO
513, -0.733, 0.217, NO, 514, -0.733, 0.217, NO
515, -0.733, 0.217, YES, 516, -0.733, 0.217, NO
517, -0.733, 0.217, NO, 518, -0.733, 0.217, NO
519, -0.733, 0.217, NO, 520, -0.733, 0.217, NO
521, -0.733, 0.217, NO, 522, -0.733, 0.217, NO
523, -0.733, 0.217, NO, 524, -0.733, 0.217, NO
525, -0.733, 0.217, NO, 526, -0.733, 0.217, NO
527, -0.733, 0.217, NO, 528, -0.733, 0.217, YES
529, -0.733, 0.217, NO, 530, -0.733, 0.217, NO
531, -0.733, 0.217, NO, 532, -0.733, 0.217, NO
533, -0.733, 0.217, NO, 534, -0.733, 0.217, NO
535, -0.733, 0.217, NO, 536, -0.733, 0.217, NO
537, -0.733, 0.217, NO, 538, -0.733, 0.217, NO

NAME=L1(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8

101, 0.877, 0.217, NO, 102, 0.877, 0.217, YES
103, 0.877, 0.217, NO, 104, 0.877, 0.217, NO
105, 0.877, 0.217, NO, 106, 0.877, 0.217, NO
107, 0.877, 0.217, NO, 108, 0.877, 0.217, NO
109, 0.877, 0.217, NO, 110, 0.877, 0.217, NO
111, 0.877, 0.217, NO, 112, 0.877, 0.217, NO
113, 0.877, 0.217, NO, 114, 0.877, 0.217, NO
115, 0.877, 0.217, YES, 116, 0.877, 0.217, NO
117, 0.877, 0.217, NO, 118, 0.877, 0.217, NO
119, 0.877, 0.217, NO, 120, 0.877, 0.217, NO

121, 0.877, 0.217, NO, 122, 0.877, 0.217, NO
123, 0.877, 0.217, NO, 124, 0.877, 0.217, NO
125, 0.877, 0.217, NO, 126, 0.877, 0.217, NO
127, 0.877, 0.217, NO, 128, 0.877, 0.217, YES
129, 0.877, 0.217, NO, 130, 0.877, 0.217, NO
131, 0.877, 0.217, NO, 132, 0.877, 0.217, NO
133, 0.877, 0.217, NO, 134, 0.877, 0.217, NO
135, 0.877, 0.217, NO, 136, 0.877, 0.217, NO
137, 0.877, 0.217, NO, 138, 0.877, 0.217, NO
NAME=L2(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8
301, 0.667, 0.217, NO, 302, 0.667, 0.217, YES
303, 0.667, 0.217, NO, 304, 0.667, 0.217, NO
305, 0.667, 0.217, NO, 306, 0.667, 0.217, NO
307, 0.667, 0.217, NO, 308, 0.667, 0.217, NO
309, 0.667, 0.217, NO, 310, 0.667, 0.217, NO
311, 0.667, 0.217, NO, 312, 0.667, 0.217, NO
313, 0.667, 0.217, NO, 314, 0.667, 0.217, NO
315, 0.667, 0.217, YES, 316, 0.667, 0.217, NO
317, 0.667, 0.217, NO, 318, 0.667, 0.217, NO
319, 0.667, 0.217, NO, 320, 0.667, 0.217, NO
321, 0.667, 0.217, NO, 322, 0.667, 0.217, NO
323, 0.667, 0.217, NO, 324, 0.667, 0.217, NO
325, 0.667, 0.217, NO, 326, 0.667, 0.217, NO
327, 0.667, 0.217, NO, 328, 0.667, 0.217, YES
329, 0.667, 0.217, NO, 330, 0.667, 0.217, NO
331, 0.667, 0.217, NO, 332, 0.667, 0.217, NO
333, 0.667, 0.217, NO, 334, 0.667, 0.217, NO
335, 0.667, 0.217, NO, 336, 0.667, 0.217, NO
337, 0.667, 0.217, NO, 338, 0.667, 0.217, NO
NAME=L2(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8
301, -0.523, 0.217, NO, 302, -0.523, 0.217, YES
303, -0.523, 0.217, NO, 304, -0.523, 0.217, NO
305, -0.523, 0.217, NO, 306, -0.523, 0.217, NO
307, -0.523, 0.217, NO, 308, -0.523, 0.217, NO
309, -0.523, 0.217, NO, 310, -0.523, 0.217, NO
311, -0.523, 0.217, NO, 312, -0.523, 0.217, NO
313, -0.523, 0.217, NO, 314, -0.523, 0.217, NO
315, -0.523, 0.217, YES, 316, -0.523, 0.217, NO
317, -0.523, 0.217, NO, 318, -0.523, 0.217, NO
319, -0.523, 0.217, NO, 320, -0.523, 0.217, NO
321, -0.523, 0.217, NO, 322, -0.523, 0.217, NO
323, -0.523, 0.217, NO, 324, -0.523, 0.217, NO
325, -0.523, 0.217, NO, 326, -0.523, 0.217, NO
327, -0.523, 0.217, NO, 328, -0.523, 0.217, YES
329, -0.523, 0.217, NO, 330, -0.523, 0.217, NO
331, -0.523, 0.217, NO, 332, -0.523, 0.217, NO

```

333, -0.523, 0.217, NO, 334, -0.523, 0.217, NO
335, -0.523, 0.217, NO, 336, -0.523, 0.217, NO
337, -0.523, 0.217, NO, 338, -0.523, 0.217, NO
NAME=L3(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8
201, -0.433, 0.217, NO, 202, -0.433, 0.217, YES
203, -0.433, 0.217, NO, 204, -0.433, 0.217, NO
205, -0.433, 0.217, NO, 206, -0.433, 0.217, NO
207, -0.433, 0.217, NO, 208, -0.433, 0.217, NO
209, -0.433, 0.217, NO, 210, -0.433, 0.217, NO
211, -0.433, 0.217, NO, 212, -0.433, 0.217, NO
213, -0.433, 0.217, NO, 214, -0.433, 0.217, NO
215, -0.433, 0.217, YES, 216, -0.433, 0.217, NO
217, -0.433, 0.217, NO, 218, -0.433, 0.217, NO
219, -0.433, 0.217, NO, 220, -0.433, 0.217, NO
221, -0.433, 0.217, NO, 222, -0.433, 0.217, NO
223, -0.433, 0.217, NO, 224, -0.433, 0.217, NO
225, -0.433, 0.217, NO, 226, -0.433, 0.217, NO
227, -0.433, 0.217, NO, 228, -0.433, 0.217, YES
229, -0.433, 0.217, NO, 230, -0.433, 0.217, NO
231, -0.433, 0.217, NO, 232, -0.433, 0.217, NO
233, -0.433, 0.217, NO, 234, -0.433, 0.217, NO
235, -0.433, 0.217, NO, 236, -0.433, 0.217, NO
237, -0.433, 0.217, NO, 238, -0.433, 0.217, NO
NAME=L3(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8
401, 0.577, 0.217, NO, 402, 0.577, 0.217, YES
403, 0.577, 0.217, NO, 404, 0.577, 0.217, NO
405, 0.577, 0.217, NO, 406, 0.577, 0.217, NO
407, 0.577, 0.217, NO, 408, 0.577, 0.217, NO
409, 0.577, 0.217, NO, 410, 0.577, 0.217, NO
411, 0.577, 0.217, NO, 412, 0.577, 0.217, NO
413, 0.577, 0.217, NO, 414, 0.577, 0.217, NO
415, 0.577, 0.217, YES, 416, 0.577, 0.217, NO
417, 0.577, 0.217, NO, 418, 0.577, 0.217, NO
419, 0.577, 0.217, NO, 420, 0.577, 0.217, NO
421, 0.577, 0.217, NO, 422, 0.577, 0.217, NO
423, 0.577, 0.217, NO, 424, 0.577, 0.217, NO
425, 0.577, 0.217, NO, 426, 0.577, 0.217, NO
427, 0.577, 0.217, NO, 428, 0.577, 0.217, YES
429, 0.577, 0.217, NO, 430, 0.577, 0.217, NO
431, 0.577, 0.217, NO, 432, 0.577, 0.217, NO
433, 0.577, 0.217, NO, 434, 0.577, 0.217, NO
435, 0.577, 0.217, NO, 436, 0.577, 0.217, NO
437, 0.577, 0.217, NO, 438, 0.577, 0.217, NO

```

```

*LSUPPORT ; Lane Supports - Negative Moments at Interior Piers
; iTYPE, ELEM_LIST, POSITION ; (When iTYPE=0)

```

```

; iTYPE, GRUP-NAME ; (When iTYPE=1)
0, 115to515by100 128to528by100, END-I
0, 111to511by100 124to524by100, END-J

*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 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 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, L ; 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, INT, bPHI1, PHI1, bPHI2, PHI2 ; user(Type 4)
; [VEHICLE1] ; user(Type 4): line 2
; [VEHICLE2] ; user(Type 4): line 3

```

```
; [VEHICLE3] ; user(Type 4): 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 AASHTO LRFD 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, KS2005
NAME=DL-24, 1, DL-24, 0, KS2005
```

```
*VCLASS ; Vehicle Classes
; NAME=NAME ; line 1
; VLOAD1, VLOAD2, ... ; from line 2
NAME=DB24
DB-24
NAME=DL24
DL-24
```

```
*MVLDCASE ; 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, ... ; 3nd line
; ... ; ...
; TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1, LANEn2, ... ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN, SCALE, DESC ; Permit
NAME=MOVING, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 설계활하중(부제력)
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
VC, DL24, 1, 1, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
VC, DB24, 1, 1, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
VC, DL24, 1, 1, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
NAME=DB하중-1차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 1, L1(좌측 기준)
NAME=DB하중-2차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 2, 2, L1(좌측 기준), L2(좌측 기준)
NAME=DB하중-3차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
```

```
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 3, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
NAME=DL하중-1차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 1, 1, L1(좌측 기준)
NAME=DL하중-2차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 2, 2, L1(좌측 기준), L2(좌측 기준)
NAME=DL하중-3차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 3, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
NAME=DB하중-1차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 1, L1(우측 기준)
NAME=DB하중-2차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 2, 2, L1(우측 기준), L2(우측 기준)
NAME=DB하중-3차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 1, 1, L1(우측 기준)
NAME=DL하중-2차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 2, 2, L1(우측 기준), L2(우측 기준)
NAME=DL하중-3차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 3, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
```

```
*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)
MV, DB하중-1차선(좌측), 0, 192, 192, 163, 255, 160, 192, 0, 192
MV, DB하중-2차선(좌측), 0, 128, 255, 255, 160, 255, 255, 87, 128
MV, DB하중-3차선(좌측), 0, 192, 192, 146, 0, 255, 255, 192, 160
ST, 합성후 고정하중, 160, 192, 255, 0, 192, 192, 192, 72, 0
MV, MOVING, 255, 192, 87, 192, 0, 192, 192, 0, 192
MV, DL하중-1차선(좌측), 192, 72, 0, 255, 255, 255, 255, 192, 87
MV, DL하중-2차선(좌측), 210, 210, 210, 0, 128, 192, 255, 255, 255
MV, DL하중-3차선(좌측), 85, 192, 0, 0, 128, 57, 255, 0, 192
MV, DB하중-1차선(우측), 192, 0, 128, 255, 128, 0, 163, 160, 255
MV, DB하중-2차선(우측), 255, 192, 160, 0, 192, 128, 93, 255, 87
MV, DB하중-3차선(우측), 192, 192, 192, 0, 192, 192, 255, 128, 0
MV, DL하중-1차선(우측), 210, 210, 210, 212, 160, 255, 163, 160, 255
MV, DL하중-2차선(우측), 192, 0, 128, 160, 192, 255, 255, 0, 128
```

MV, DL하중-3차선(우측), 93, 255, 87, 0, 128, 192, 212, 160, 255

```
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRRS, bCRBAR, bTPPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO

*MOVE-CTRL      ; Moving Load Analysis Control
; METHOD, POINT, iIGP, iIGPN/DIST, PLATE, bSTRCALC, FRAME, bCSTRCALC, bREAC, bRG, RGN,
bDISP, bDG, DGN, bFM, bFG, FGN
EXACT, ALL, 0, 3, NODAL, NO, AXIAL, NO,   YES, NO, ,   YES, NO, ,   YES, NO,

*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
; [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 , C40          , 1, KS01-Civil(RC),          ,C40          , , , , 0, 0, 28000, NO, 0, 0
2, CONC , C27          , 1, KS01-Civil(RC),          ,C27          , , , , 0, 0, 18900, NO, 0, 0

*ENDDATA
```

■ PSC 거더(2@30.000m) 입력자료

1. 횡분배

```
-----
; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

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

*STRUCTYPE      ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB
1, 1, 1, NO, NO, 9.806, 0, NO, NO

*REBAR-MATL-CODE      ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE      ; Nodes
; iNO, X, Y, Z
8, 12.145, 0, 0
9, 11.073, 0, 0
10, 8.573, 0, 0
11, 6.073, 0, 0
12, 3.573, 0, 0
13, 1.073, 0, 0
14, 0, 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          ; 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)
7, BEAM , 1, 1, 9, 8, 0
8, BEAM , 1, 1, 10, 9, 0
9, BEAM , 1, 1, 11, 10, 0
10, BEAM , 1, 1, 12, 11, 0
11, BEAM , 1, 1, 13, 12, 0
12, BEAM , 1, 1, 14, 13, 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      ; 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-2007    , 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, 255,   0,   0, 255, 77, 77, 192, 220, 192, 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, 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        ; 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, 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                ; 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_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_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
;      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, EgDsb, 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, 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, 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, DBUSER , slab , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 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, 255, 77, 77, 192, 220, 192, NO, 0.5

```

*DGN-SECT

```

; 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, PERL_OUT, PERL_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, Ixx1, Iyy1, Izz1 ; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERL_OUT1, PERL_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, PERL_OUT2, PERL_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)
; 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_j, 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, EgDsb, 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=COMP-CI/CT)
; [SIZE-C]-j ; 10th
line(STYPE=COMP-CI/CT)
; [SIZE-D]-j ; 11th
line(STYPE=COMP-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] : 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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, DBUSER , slab , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.25, 1, 0, 0, 0, 0, 0, 0, 0

*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
합성후 고정자중, D , 실하중(방호벽+중분대+포장)

*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
11, 111100,
9 10 12 13, 011000,

*USE-STLD, 합성후 고정자중

*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
7, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -1.84, 0.715485, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
7, BEAM , CONLOAD, GZ, NO , NO, aDir[1], , , 0.908582, -5.877, 0, 0, 0, 0, 0, 0, , NO, 0, 0, NO
8, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
9, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
10, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
11, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO
12, BEAM , CONLOAD, GZ, NO , NO, aDir[1], , , 0.178938, -8.367, 0, 0, 0, 0, 0, 0, , NO, 0, 0, NO
12, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0.419385, -1.84, 1, -1.84, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [합성후 고정자중] -----

*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, 합성후 고정자중, 163, 255, 160, 93, 255, 87, 163, 160, 255

*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRs, bCRBAR, bTPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO

*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
; [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 , C27                , 1, KS01-Civil(RC),                ,C27                , , , , 0, 0, 18900, NO, 0, 0

*ENDDATA
```

2. 합성전

```
-----
; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

*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
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE      ; Nodes
; iNO, X, Y, Z
101, 0, 5, 0
102, 0.4, 5, 0
103, 0.6, 5, 0
104, 4, 5, 0
105, 5.25, 5, 0
106, 10.1, 5, 0
107, 14.95, 5, 0
108, 19.8, 5, 0
109, 24.65, 5, 0
110, 25.9, 5, 0
111, 29.3, 5, 0
112, 29.5, 5, 0
113, 29.9, 5, 0
114, 30, 5, 0
115, 30.4, 5, 0
116, 30.6, 5, 0
117, 34, 5, 0
118, 35.25, 5, 0
119, 40.1, 5, 0
120, 44.95, 5, 0
121, 49.8, 5, 0
122, 54.65, 5, 0
123, 55.9, 5, 0
124, 59.3, 5, 0
125, 59.5, 5, 0
```

126, 59.9, 5, 0
201, 0, 2.5, 0
202, 0.4, 2.5, 0
203, 0.6, 2.5, 0
204, 4, 2.5, 0
205, 5.25, 2.5, 0
206, 10.1, 2.5, 0
207, 14.95, 2.5, 0
208, 19.8, 2.5, 0
209, 24.65, 2.5, 0
210, 25.9, 2.5, 0
211, 29.3, 2.5, 0
212, 29.5, 2.5, 0
213, 29.9, 2.5, 0
214, 30, 2.5, 0
215, 30.4, 2.5, 0
216, 30.6, 2.5, 0
217, 34, 2.5, 0
218, 35.25, 2.5, 0
219, 40.1, 2.5, 0
220, 44.95, 2.5, 0
221, 49.8, 2.5, 0
222, 54.65, 2.5, 0
223, 55.9, 2.5, 0
224, 59.3, 2.5, 0
225, 59.5, 2.5, 0
226, 59.9, 2.5, 0
301, 0, 0, 0
302, 0.4, 0, 0
303, 0.6, 0, 0
304, 4, 0, 0
305, 5.25, 0, 0
306, 10.1, 0, 0
307, 14.95, 0, 0
308, 19.8, 0, 0
309, 24.65, 0, 0
310, 25.9, 0, 0
311, 29.3, 0, 0
312, 29.5, 0, 0
313, 29.9, 0, 0
314, 30, 0, 0
315, 30.4, 0, 0
316, 30.6, 0, 0
317, 34, 0, 0
318, 35.25, 0, 0
319, 40.1, 0, 0

320, 44.95, 0, 0
321, 49.8, 0, 0
322, 54.65, 0, 0
323, 55.9, 0, 0
324, 59.3, 0, 0
325, 59.5, 0, 0
326, 59.9, 0, 0
401, 0, -2.5, 0
402, 0.4, -2.5, 0
403, 0.6, -2.5, 0
404, 4, -2.5, 0
405, 5.25, -2.5, 0
406, 10.1, -2.5, 0
407, 14.95, -2.5, 0
408, 19.8, -2.5, 0
409, 24.65, -2.5, 0
410, 25.9, -2.5, 0
411, 29.3, -2.5, 0
412, 29.5, -2.5, 0
413, 29.9, -2.5, 0
414, 30, -2.5, 0
415, 30.4, -2.5, 0
416, 30.6, -2.5, 0
417, 34, -2.5, 0
418, 35.25, -2.5, 0
419, 40.1, -2.5, 0
420, 44.95, -2.5, 0
421, 49.8, -2.5, 0
422, 54.65, -2.5, 0
423, 55.9, -2.5, 0
424, 59.3, -2.5, 0
425, 59.5, -2.5, 0
426, 59.9, -2.5, 0
501, 0, -5, 0
502, 0.4, -5, 0
503, 0.6, -5, 0
504, 4, -5, 0
505, 5.25, -5, 0
506, 10.1, -5, 0
507, 14.95, -5, 0
508, 19.8, -5, 0
509, 24.65, -5, 0
510, 25.9, -5, 0
511, 29.3, -5, 0
512, 29.5, -5, 0
513, 29.9, -5, 0

514, 30, -5, 0
515, 30.4, -5, 0
516, 30.6, -5, 0
517, 34, -5, 0
518, 35.25, -5, 0
519, 40.1, -5, 0
520, 44.95, -5, 0
521, 49.8, -5, 0
522, 54.65, -5, 0
523, 55.9, -5, 0
524, 59.3, -5, 0
525, 59.5, -5, 0
526, 59.9, -5, 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, RPZ, iSUB, EXVAL ; Frame(Ref. Point)

101, BEAM , 1, 1, 101, 102, 0
102, BEAM , 1, 1, 102, 103, 0
103, BEAM , 1, 3, 103, 104, 0
104, BEAM , 1, 2, 104, 105, 0
105, BEAM , 1, 2, 105, 106, 0
106, BEAM , 1, 2, 106, 107, 0
107, BEAM , 1, 2, 107, 108, 0
108, BEAM , 1, 2, 108, 109, 0
109, BEAM , 1, 2, 109, 110, 0
110, BEAM , 1, 4, 110, 111, 0
111, BEAM , 1, 1, 111, 112, 0
112, BEAM , 1, 1, 112, 113, 0
113, BEAM , 1, 1, 114, 115, 0
114, BEAM , 1, 1, 115, 116, 0
115, BEAM , 1, 3, 116, 117, 0
116, BEAM , 1, 2, 117, 118, 0
117, BEAM , 1, 2, 118, 119, 0
118, BEAM , 1, 2, 119, 120, 0
119, BEAM , 1, 2, 120, 121, 0
120, BEAM , 1, 2, 121, 122, 0
121, BEAM , 1, 2, 122, 123, 0
122, BEAM , 1, 4, 123, 124, 0
123, BEAM , 1, 1, 124, 125, 0
124, BEAM , 1, 1, 125, 126, 0
201, BEAM , 1, 1, 201, 202, 0
202, BEAM , 1, 1, 202, 203, 0

203, BEAM , 1, 3, 203, 204, 0
204, BEAM , 1, 2, 204, 205, 0
205, BEAM , 1, 2, 205, 206, 0
206, BEAM , 1, 2, 206, 207, 0
207, BEAM , 1, 2, 207, 208, 0
208, BEAM , 1, 2, 208, 209, 0
209, BEAM , 1, 2, 209, 210, 0
210, BEAM , 1, 4, 210, 211, 0
211, BEAM , 1, 1, 211, 212, 0
212, BEAM , 1, 1, 212, 213, 0
213, BEAM , 1, 1, 214, 215, 0
214, BEAM , 1, 1, 215, 216, 0
215, BEAM , 1, 3, 216, 217, 0
216, BEAM , 1, 2, 217, 218, 0
217, BEAM , 1, 2, 218, 219, 0
218, BEAM , 1, 2, 219, 220, 0
219, BEAM , 1, 2, 220, 221, 0
220, BEAM , 1, 2, 221, 222, 0
221, BEAM , 1, 2, 222, 223, 0
222, BEAM , 1, 4, 223, 224, 0
223, BEAM , 1, 1, 224, 225, 0
224, BEAM , 1, 1, 225, 226, 0
301, BEAM , 1, 1, 301, 302, 0
302, BEAM , 1, 1, 302, 303, 0
303, BEAM , 1, 3, 303, 304, 0
304, BEAM , 1, 2, 304, 305, 0
305, BEAM , 1, 2, 305, 306, 0
306, BEAM , 1, 2, 306, 307, 0
307, BEAM , 1, 2, 307, 308, 0
308, BEAM , 1, 2, 308, 309, 0
309, BEAM , 1, 2, 309, 310, 0
310, BEAM , 1, 4, 310, 311, 0
311, BEAM , 1, 1, 311, 312, 0
312, BEAM , 1, 1, 312, 313, 0
313, BEAM , 1, 1, 314, 315, 0
314, BEAM , 1, 1, 315, 316, 0
315, BEAM , 1, 3, 316, 317, 0
316, BEAM , 1, 2, 317, 318, 0
317, BEAM , 1, 2, 318, 319, 0
318, BEAM , 1, 2, 319, 320, 0
319, BEAM , 1, 2, 320, 321, 0
320, BEAM , 1, 2, 321, 322, 0
321, BEAM , 1, 2, 322, 323, 0
322, BEAM , 1, 4, 323, 324, 0
323, BEAM , 1, 1, 324, 325, 0
324, BEAM , 1, 1, 325, 326, 0

```

401, BEAM , 1, 1, 401, 402, 0
402, BEAM , 1, 1, 402, 403, 0
403, BEAM , 1, 3, 403, 404, 0
404, BEAM , 1, 2, 404, 405, 0
405, BEAM , 1, 2, 405, 406, 0
406, BEAM , 1, 2, 406, 407, 0
407, BEAM , 1, 2, 407, 408, 0
408, BEAM , 1, 2, 408, 409, 0
409, BEAM , 1, 2, 409, 410, 0
410, BEAM , 1, 4, 410, 411, 0
411, BEAM , 1, 1, 411, 412, 0
412, BEAM , 1, 1, 412, 413, 0
413, BEAM , 1, 1, 414, 415, 0
414, BEAM , 1, 1, 415, 416, 0
415, BEAM , 1, 3, 416, 417, 0
416, BEAM , 1, 2, 417, 418, 0
417, BEAM , 1, 2, 418, 419, 0
418, BEAM , 1, 2, 419, 420, 0
419, BEAM , 1, 2, 420, 421, 0
420, BEAM , 1, 2, 421, 422, 0
421, BEAM , 1, 2, 422, 423, 0
422, BEAM , 1, 4, 423, 424, 0
423, BEAM , 1, 1, 424, 425, 0
424, BEAM , 1, 1, 425, 426, 0
501, BEAM , 1, 1, 501, 502, 0
502, BEAM , 1, 1, 502, 503, 0
503, BEAM , 1, 3, 503, 504, 0
504, BEAM , 1, 2, 504, 505, 0
505, BEAM , 1, 2, 505, 506, 0
506, BEAM , 1, 2, 506, 507, 0
507, BEAM , 1, 2, 507, 508, 0
508, BEAM , 1, 2, 508, 509, 0
509, BEAM , 1, 2, 509, 510, 0
510, BEAM , 1, 4, 510, 511, 0
511, BEAM , 1, 1, 511, 512, 0
512, BEAM , 1, 1, 512, 513, 0
513, BEAM , 1, 1, 514, 515, 0
514, BEAM , 1, 1, 515, 516, 0
515, BEAM , 1, 3, 516, 517, 0
516, BEAM , 1, 2, 517, 518, 0
517, BEAM , 1, 2, 518, 519, 0
518, BEAM , 1, 2, 519, 520, 0
519, BEAM , 1, 2, 520, 521, 0
520, BEAM , 1, 2, 521, 522, 0
521, BEAM , 1, 2, 522, 523, 0
522, BEAM , 1, 4, 523, 524, 0

```

```

523, BEAM , 1, 1, 524, 525, 0
524, BEAM , 1, 1, 525, 526, 0

```

```

*GROUP      ; Group
; NAME, NODE_LIST, ELEM_LIST
지점        , 102to502by100 112to512by100,

```

```

*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      ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C40                , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , C40

```

```

*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, 255, 77, 77, 192, 220, 192, NO, 0.5

```

```

*SECT=PSCVALUE      ; PSC Value, General Section, Composite PC, Composite General
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ      ; 1st line
;      [STIFF1]                      ; 2nd line
;      [STIFF2]                      ; 3rd line
;      [STIFF3]                      ; 4th line
;      T1, T2, BT, HT                ; 5th line(PSC)
;      bSHEARCHK, [SCHK], [WT]       ; 6th line(PSC)
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc           ; 7th line(COMPOSITE-PC)
;      OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                     ; Outer Polygon(PLANE)
;      IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                     ; Inner Polygon(PLANE)
;      ...
;      IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                     ; Inner Polygon(PLANE)
;      VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn                    ; Vertex(General-LINE)
;      LINE=VII, VJl, dTHIKl, iALIGNl                          ; Line(General-LINE)
;      ...
;      LINE=VIIn, VJn, dTHIKn, iALIGNn                        ; Line(General-LINE)
;      LOOP=COUNT1, LIX11, LIX12, ..., LIXn                  ; Line(General-LINE)
;      ...
;      LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn                 ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
;      [STIFF1-I]                      ; 2nd line
;      [STIFF2-I]                      ; 3rd line
;      [STIFF3-I]                      ; 4th line
;      [STIFF1-J]                      ; 5th line

```

```

; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
; [PART1]-I ; 2nd line
; [PART2]-I ; next lines
; ...
; [PART1]-J ; next lines
; [PART2]-J ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)

```

```

; : LINE=(bI-Tapered), VII, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 1, VALUE , END BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE , CEN BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED , END-CEN BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED , CEN-END BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
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

```

*DGN-SECT-PSCVALUE ; Design Section of PSC Value

```

; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)

```

```

; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line - COMPOSITE-GEN(TAPERED)
; [PART1-I] ; 2nd line
; [PART2-I] ; next lines
; ...
; [PART1-J] ; next lines
; [PART2-J] ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz

```

```

; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERL_OUT, PERL_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 1, VALUE , END BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 2, VALUE , CEN BM(BC) , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
SECT= 3, TAPERED , END-CEN BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 4, TAPERED , CEN-END BM(BC) , CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
0.68838, 0, 0, 0.007, 0.342454, 0.014
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0
1.34434, 0, 0, 0.136, 0.459149, 0.049
0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0

```

*STLDCASE ; Static Load Cases

```
; LCNAME, LCTYPE, DESC
PSC범 자중, D ,
바닥판 자중, D ,

*CONSTRAINT      ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
102to502by100 115to515by100, 111100,
112to512by100 125to525by100, 011000,

*USE-STLD, PSC범 자중

*CONLOAD      ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
105, 0, 0, -8.554, 0, 0, 0,
106, 0, 0, -8.554, 0, 0, 0,
107, 0, 0, -8.554, 0, 0, 0,
108, 0, 0, -8.554, 0, 0, 0,
109, 0, 0, -8.554, 0, 0, 0,
118, 0, 0, -8.554, 0, 0, 0,
119, 0, 0, -8.554, 0, 0, 0,
120, 0, 0, -8.554, 0, 0, 0,
121, 0, 0, -8.554, 0, 0, 0,
122, 0, 0, -8.554, 0, 0, 0,
205, 0, 0, -8.554, 0, 0, 0,
206, 0, 0, -8.554, 0, 0, 0,
207, 0, 0, -8.554, 0, 0, 0,
208, 0, 0, -8.554, 0, 0, 0,
209, 0, 0, -8.554, 0, 0, 0,
218, 0, 0, -8.554, 0, 0, 0,
219, 0, 0, -8.554, 0, 0, 0,
220, 0, 0, -8.554, 0, 0, 0,
221, 0, 0, -8.554, 0, 0, 0,
222, 0, 0, -8.554, 0, 0, 0,
305, 0, 0, -8.554, 0, 0, 0,
306, 0, 0, -8.554, 0, 0, 0,
307, 0, 0, -8.554, 0, 0, 0,
308, 0, 0, -8.554, 0, 0, 0,
309, 0, 0, -8.554, 0, 0, 0,
318, 0, 0, -8.554, 0, 0, 0,
319, 0, 0, -8.554, 0, 0, 0,
320, 0, 0, -8.554, 0, 0, 0,
321, 0, 0, -8.554, 0, 0, 0,
322, 0, 0, -8.554, 0, 0, 0,
405, 0, 0, -8.554, 0, 0, 0,
406, 0, 0, -8.554, 0, 0, 0,
```

```
407, 0, 0, -8.554, 0, 0, 0,
408, 0, 0, -8.554, 0, 0, 0,
409, 0, 0, -8.554, 0, 0, 0,
418, 0, 0, -8.554, 0, 0, 0,
419, 0, 0, -8.554, 0, 0, 0,
420, 0, 0, -8.554, 0, 0, 0,
421, 0, 0, -8.554, 0, 0, 0,
422, 0, 0, -8.554, 0, 0, 0,
505, 0, 0, -8.554, 0, 0, 0,
506, 0, 0, -8.554, 0, 0, 0,
507, 0, 0, -8.554, 0, 0, 0,
508, 0, 0, -8.554, 0, 0, 0,
509, 0, 0, -8.554, 0, 0, 0,
518, 0, 0, -8.554, 0, 0, 0,
519, 0, 0, -8.554, 0, 0, 0,
520, 0, 0, -8.554, 0, 0, 0,
521, 0, 0, -8.554, 0, 0, 0,
522, 0, 0, -8.554, 0, 0, 0,
```

```
*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
101, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
102, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
103, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
104, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
105, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
106, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
107, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
108, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
109, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
110, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
111, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
112, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
113, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
114, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
115, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
116, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
117, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
118, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
119, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
120, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
121, BEAM      , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
```


518, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
519, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
520, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
521, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -16.785, 0, 0, 0, 0, , NO, 0, 0, NO
522, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -16.785, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
523, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO
524, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -33.184, 1, -33.184, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [PSC뵡 자중] -----

*USE-STLD, 바닥판 자중

*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
102, 0, 0, -6.403, 0, 0, 0,
105, 0, 0, -12.185, 0, 0, 0,
106, 0, 0, -12.185, 0, 0, 0,
107, 0, 0, -12.185, 0, 0, 0,
108, 0, 0, -12.185, 0, 0, 0,
109, 0, 0, -12.185, 0, 0, 0,
112, 0, 0, -24.371, 0, 0, 0,
115, 0, 0, -24.371, 0, 0, 0,
118, 0, 0, -12.185, 0, 0, 0,
119, 0, 0, -12.185, 0, 0, 0,
120, 0, 0, -12.185, 0, 0, 0,
121, 0, 0, -12.185, 0, 0, 0,
122, 0, 0, -12.185, 0, 0, 0,
125, 0, 0, -6.403, 0, 0, 0,
202, 0, 0, -12.806, 0, 0, 0,
205, 0, 0, -24.371, 0, 0, 0,
206, 0, 0, -24.371, 0, 0, 0,
207, 0, 0, -24.371, 0, 0, 0,
208, 0, 0, -24.371, 0, 0, 0,
209, 0, 0, -24.371, 0, 0, 0,
212, 0, 0, -48.742, 0, 0, 0,
215, 0, 0, -48.742, 0, 0, 0,
218, 0, 0, -24.371, 0, 0, 0,
219, 0, 0, -24.371, 0, 0, 0,
220, 0, 0, -24.371, 0, 0, 0,
221, 0, 0, -24.371, 0, 0, 0,
222, 0, 0, -24.371, 0, 0, 0,
225, 0, 0, -12.806, 0, 0, 0,
302, 0, 0, -12.806, 0, 0, 0,
305, 0, 0, -24.371, 0, 0, 0,
306, 0, 0, -24.371, 0, 0, 0,
307, 0, 0, -24.371, 0, 0, 0,

308, 0, 0, -24.371, 0, 0, 0,
309, 0, 0, -24.371, 0, 0, 0,
312, 0, 0, -48.742, 0, 0, 0,
315, 0, 0, -48.742, 0, 0, 0,
318, 0, 0, -24.371, 0, 0, 0,
319, 0, 0, -24.371, 0, 0, 0,
320, 0, 0, -24.371, 0, 0, 0,
321, 0, 0, -24.371, 0, 0, 0,
322, 0, 0, -24.371, 0, 0, 0,
325, 0, 0, -12.806, 0, 0, 0,
402, 0, 0, -12.806, 0, 0, 0,
405, 0, 0, -24.371, 0, 0, 0,
406, 0, 0, -24.371, 0, 0, 0,
407, 0, 0, -24.371, 0, 0, 0,
408, 0, 0, -24.371, 0, 0, 0,
409, 0, 0, -24.371, 0, 0, 0,
412, 0, 0, -48.742, 0, 0, 0,
415, 0, 0, -48.742, 0, 0, 0,
418, 0, 0, -24.371, 0, 0, 0,
419, 0, 0, -24.371, 0, 0, 0,
420, 0, 0, -24.371, 0, 0, 0,
421, 0, 0, -24.371, 0, 0, 0,
422, 0, 0, -24.371, 0, 0, 0,
425, 0, 0, -12.806, 0, 0, 0,
502, 0, 0, -6.403, 0, 0, 0,
505, 0, 0, -12.185, 0, 0, 0,
506, 0, 0, -12.185, 0, 0, 0,
507, 0, 0, -12.185, 0, 0, 0,
508, 0, 0, -12.185, 0, 0, 0,
509, 0, 0, -12.185, 0, 0, 0,
512, 0, 0, -24.371, 0, 0, 0,
515, 0, 0, -24.371, 0, 0, 0,
518, 0, 0, -12.185, 0, 0, 0,
519, 0, 0, -12.185, 0, 0, 0,
520, 0, 0, -12.185, 0, 0, 0,
521, 0, 0, -12.185, 0, 0, 0,
522, 0, 0, -12.185, 0, 0, 0,
525, 0, 0, -6.403, 0, 0, 0,

*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
101, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO

422, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.625, 1, -15.625, 0, 0, 0, 0, , NO, 0, 0, NO
423, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.625, 1, -15.625, 0, 0, 0, 0, , NO, 0, 0, NO
424, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.625, 1, -15.625, 0, 0, 0, 0, , NO, 0, 0, NO
501, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
502, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
503, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
504, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
505, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
506, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
507, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
508, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
509, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
510, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
511, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
512, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
513, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
514, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
515, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
516, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
517, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
518, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
519, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
520, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
521, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
522, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
523, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO
524, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , 0, -15.958, 1, -15.958, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [바닥판 자중] -----

*MVLDCODE ; Moving Load Code
; CODE=CODE
CODE=NONE

*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, 바닥판 자중, 0, 192, 128, 255, 128, 0, 160, 192, 255
ST, PSC빔 자중, 160, 192, 255, 0, 192, 192, 72, 0

*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRRS, bCRBAR, bTPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO

*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
; [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
; MINI, MIN2, MIN3
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
1, CONC , C40 , 1, KS01-Civil(RC), ,C40 , , , , 0, 0, 28000, NO, 0, 0

*ENDDATA

3. 합성후

```
-----
; MIDAS/Civil Text(MCT) File.
;
;-----

*VERSION
7.9.0

*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
KS01-Civil(RC), SD400, KS01-Civil(RC), SD400

*NODE      ; Nodes
; iNO, X, Y, Z
101, 0, 5, 0
102, 0.4, 5, 0
103, 0.6, 5, 0
104, 4, 5, 0
105, 5.25, 5, 0
106, 10.1, 5, 0
107, 14.95, 5, 0
108, 19.8, 5, 0
109, 24.65, 5, 0
110, 25.9, 5, 0
111, 29.3, 5, 0
112, 29.5, 5, 0
113, 29.9, 5, 0
114, 30, 5, 0
115, 30.4, 5, 0
116, 30.6, 5, 0
117, 34, 5, 0
118, 35.25, 5, 0
119, 40.1, 5, 0
120, 44.95, 5, 0
121, 49.8, 5, 0
122, 54.65, 5, 0
123, 55.9, 5, 0
124, 59.3, 5, 0
125, 59.5, 5, 0
```

```
126, 59.9, 5, 0
201, 0, 2.5, 0
202, 0.4, 2.5, 0
203, 0.6, 2.5, 0
204, 4, 2.5, 0
205, 5.25, 2.5, 0
206, 10.1, 2.5, 0
207, 14.95, 2.5, 0
208, 19.8, 2.5, 0
209, 24.65, 2.5, 0
210, 25.9, 2.5, 0
211, 29.3, 2.5, 0
212, 29.5, 2.5, 0
213, 29.9, 2.5, 0
214, 30, 2.5, 0
215, 30.4, 2.5, 0
216, 30.6, 2.5, 0
217, 34, 2.5, 0
218, 35.25, 2.5, 0
219, 40.1, 2.5, 0
220, 44.95, 2.5, 0
221, 49.8, 2.5, 0
222, 54.65, 2.5, 0
223, 55.9, 2.5, 0
224, 59.3, 2.5, 0
225, 59.5, 2.5, 0
226, 59.9, 2.5, 0
301, 0, 0, 0
302, 0.4, 0, 0
303, 0.6, 0, 0
304, 4, 0, 0
305, 5.25, 0, 0
306, 10.1, 0, 0
307, 14.95, 0, 0
308, 19.8, 0, 0
309, 24.65, 0, 0
310, 25.9, 0, 0
311, 29.3, 0, 0
312, 29.5, 0, 0
313, 29.9, 0, 0
314, 30, 0, 0
315, 30.4, 0, 0
316, 30.6, 0, 0
317, 34, 0, 0
318, 35.25, 0, 0
319, 40.1, 0, 0
```

320, 44.95, 0, 0
321, 49.8, 0, 0
322, 54.65, 0, 0
323, 55.9, 0, 0
324, 59.3, 0, 0
325, 59.5, 0, 0
326, 59.9, 0, 0
401, 0, -2.5, 0
402, 0.4, -2.5, 0
403, 0.6, -2.5, 0
404, 4, -2.5, 0
405, 5.25, -2.5, 0
406, 10.1, -2.5, 0
407, 14.95, -2.5, 0
408, 19.8, -2.5, 0
409, 24.65, -2.5, 0
410, 25.9, -2.5, 0
411, 29.3, -2.5, 0
412, 29.5, -2.5, 0
413, 29.9, -2.5, 0
414, 30, -2.5, 0
415, 30.4, -2.5, 0
416, 30.6, -2.5, 0
417, 34, -2.5, 0
418, 35.25, -2.5, 0
419, 40.1, -2.5, 0
420, 44.95, -2.5, 0
421, 49.8, -2.5, 0
422, 54.65, -2.5, 0
423, 55.9, -2.5, 0
424, 59.3, -2.5, 0
425, 59.5, -2.5, 0
426, 59.9, -2.5, 0
501, 0, -5, 0
502, 0.4, -5, 0
503, 0.6, -5, 0
504, 4, -5, 0
505, 5.25, -5, 0
506, 10.1, -5, 0
507, 14.95, -5, 0
508, 19.8, -5, 0
509, 24.65, -5, 0
510, 25.9, -5, 0
511, 29.3, -5, 0
512, 29.5, -5, 0
513, 29.9, -5, 0

514, 30, -5, 0
515, 30.4, -5, 0
516, 30.6, -5, 0
517, 34, -5, 0
518, 35.25, -5, 0
519, 40.1, -5, 0
520, 44.95, -5, 0
521, 49.8, -5, 0
522, 54.65, -5, 0
523, 55.9, -5, 0
524, 59.3, -5, 0
525, 59.5, -5, 0
526, 59.9, -5, 0
1001, 0.4, 5, -1.461
1002, 0.4, 2.5, -1.461
1003, 0.4, 0, -1.461
1004, 0.4, -2.5, -1.461
1005, 0.4, -5, -1.461
1006, 29.5, 5, -1.461
1007, 29.5, 2.5, -1.461
1008, 29.5, 0, -1.461
1009, 29.5, -2.5, -1.461
1010, 29.5, -5, -1.461
1011, 30.4, 5, -1.461
1012, 30.4, 2.5, -1.461
1013, 30.4, 0, -1.461
1014, 30.4, -2.5, -1.461
1015, 30.4, -5, -1.461
1016, 59.5, 5, -1.461
1017, 59.5, 2.5, -1.461
1018, 59.5, 0, -1.461
1019, 59.5, -2.5, -1.461
1020, 59.5, -5, -1.461
2001, 0.4, 5, -1.861
2002, 0.4, 2.5, -1.861
2003, 0.4, 0, -1.861
2004, 0.4, -2.5, -1.861
2005, 0.4, -5, -1.861
2006, 29.5, 5, -1.861
2007, 29.5, 2.5, -1.861
2008, 29.5, 0, -1.861
2009, 29.5, -2.5, -1.861
2010, 29.5, -5, -1.861
2011, 30.4, 5, -1.861
2012, 30.4, 2.5, -1.861
2013, 30.4, 0, -1.861

2014, 30.4, -2.5, -1.861
2015, 30.4, -5, -1.861
2016, 59.5, 5, -1.861
2017, 59.5, 2.5, -1.861
2018, 59.5, 0, -1.861
2019, 59.5, -2.5, -1.861
2020, 59.5, -5, -1.861

*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, RPZ, iSUB, EXVAL ; Frame(Ref. Point)

1, BEAM , 2, 5, 202, 102, 0
2, BEAM , 2, 5, 302, 202, 0
3, BEAM , 2, 5, 402, 302, 0
4, BEAM , 2, 5, 502, 402, 0
5, BEAM , 2, 7, 205, 105, 0
6, BEAM , 2, 7, 305, 205, 0
7, BEAM , 2, 7, 405, 305, 0
8, BEAM , 2, 7, 505, 405, 0
9, BEAM , 2, 7, 206, 106, 0
10, BEAM , 2, 7, 306, 206, 0
11, BEAM , 2, 7, 406, 306, 0
12, BEAM , 2, 7, 506, 406, 0
13, BEAM , 2, 7, 207, 107, 0
14, BEAM , 2, 7, 307, 207, 0
15, BEAM , 2, 7, 407, 307, 0
16, BEAM , 2, 7, 507, 407, 0
17, BEAM , 2, 7, 208, 108, 0
18, BEAM , 2, 7, 308, 208, 0
19, BEAM , 2, 7, 408, 308, 0
20, BEAM , 2, 7, 508, 408, 0
21, BEAM , 2, 7, 209, 109, 0
22, BEAM , 2, 7, 309, 209, 0
23, BEAM , 2, 7, 409, 309, 0
24, BEAM , 2, 7, 509, 409, 0
25, BEAM , 2, 6, 212, 112, 0
26, BEAM , 2, 6, 312, 212, 0
27, BEAM , 2, 6, 412, 312, 0
28, BEAM , 2, 6, 512, 412, 0
29, BEAM , 2, 6, 215, 115, 0
30, BEAM , 2, 6, 315, 215, 0
31, BEAM , 2, 6, 415, 315, 0
32, BEAM , 2, 6, 515, 415, 0

33, BEAM , 2, 7, 218, 118, 0
34, BEAM , 2, 7, 318, 218, 0
35, BEAM , 2, 7, 418, 318, 0
36, BEAM , 2, 7, 518, 418, 0
37, BEAM , 2, 7, 219, 119, 0
38, BEAM , 2, 7, 319, 219, 0
39, BEAM , 2, 7, 419, 319, 0
40, BEAM , 2, 7, 519, 419, 0
41, BEAM , 2, 7, 220, 120, 0
42, BEAM , 2, 7, 320, 220, 0
43, BEAM , 2, 7, 420, 320, 0
44, BEAM , 2, 7, 520, 420, 0
45, BEAM , 2, 7, 221, 121, 0
46, BEAM , 2, 7, 321, 221, 0
47, BEAM , 2, 7, 421, 321, 0
48, BEAM , 2, 7, 521, 421, 0
49, BEAM , 2, 7, 222, 122, 0
50, BEAM , 2, 7, 322, 222, 0
51, BEAM , 2, 7, 422, 322, 0
52, BEAM , 2, 7, 522, 422, 0
53, BEAM , 2, 5, 225, 125, 0
54, BEAM , 2, 5, 325, 225, 0
55, BEAM , 2, 5, 425, 325, 0
56, BEAM , 2, 5, 525, 425, 0
101, BEAM , 1, 1, 101, 102, 0
102, BEAM , 1, 1, 102, 103, 0
103, BEAM , 1, 3, 103, 104, 0
104, BEAM , 1, 2, 104, 105, 0
105, BEAM , 1, 2, 105, 106, 0
106, BEAM , 1, 2, 106, 107, 0
107, BEAM , 1, 2, 107, 108, 0
108, BEAM , 1, 2, 108, 109, 0
109, BEAM , 1, 2, 109, 110, 0
110, BEAM , 1, 4, 110, 111, 0
111, BEAM , 1, 1, 111, 112, 0
112, BEAM , 1, 1, 112, 113, 0
113, BEAM , 1, 1, 113, 114, 0
114, BEAM , 1, 1, 114, 115, 0
115, BEAM , 1, 1, 115, 116, 0
116, BEAM , 1, 3, 116, 117, 0
117, BEAM , 1, 2, 117, 118, 0
118, BEAM , 1, 2, 118, 119, 0
119, BEAM , 1, 2, 119, 120, 0
120, BEAM , 1, 2, 120, 121, 0
121, BEAM , 1, 2, 121, 122, 0
122, BEAM , 1, 2, 122, 123, 0

123, BEAM	,	1,	4,	123,	124,	0
124, BEAM	,	1,	1,	124,	125,	0
125, BEAM	,	1,	1,	125,	126,	0
201, BEAM	,	1,	8,	201,	202,	0
202, BEAM	,	1,	8,	202,	203,	0
203, BEAM	,	1,	10,	203,	204,	0
204, BEAM	,	1,	9,	204,	205,	0
205, BEAM	,	1,	9,	205,	206,	0
206, BEAM	,	1,	9,	206,	207,	0
207, BEAM	,	1,	9,	207,	208,	0
208, BEAM	,	1,	9,	208,	209,	0
209, BEAM	,	1,	9,	209,	210,	0
210, BEAM	,	1,	11,	210,	211,	0
211, BEAM	,	1,	8,	211,	212,	0
212, BEAM	,	1,	8,	212,	213,	0
213, BEAM	,	1,	8,	213,	214,	0
214, BEAM	,	1,	8,	214,	215,	0
215, BEAM	,	1,	8,	215,	216,	0
216, BEAM	,	1,	10,	216,	217,	0
217, BEAM	,	1,	9,	217,	218,	0
218, BEAM	,	1,	9,	218,	219,	0
219, BEAM	,	1,	9,	219,	220,	0
220, BEAM	,	1,	9,	220,	221,	0
221, BEAM	,	1,	9,	221,	222,	0
222, BEAM	,	1,	9,	222,	223,	0
223, BEAM	,	1,	11,	223,	224,	0
224, BEAM	,	1,	8,	224,	225,	0
225, BEAM	,	1,	8,	225,	226,	0
301, BEAM	,	1,	8,	301,	302,	0
302, BEAM	,	1,	8,	302,	303,	0
303, BEAM	,	1,	10,	303,	304,	0
304, BEAM	,	1,	9,	304,	305,	0
305, BEAM	,	1,	9,	305,	306,	0
306, BEAM	,	1,	9,	306,	307,	0
307, BEAM	,	1,	9,	307,	308,	0
308, BEAM	,	1,	9,	308,	309,	0
309, BEAM	,	1,	9,	309,	310,	0
310, BEAM	,	1,	11,	310,	311,	0
311, BEAM	,	1,	8,	311,	312,	0
312, BEAM	,	1,	8,	312,	313,	0
313, BEAM	,	1,	8,	313,	314,	0
314, BEAM	,	1,	8,	314,	315,	0
315, BEAM	,	1,	8,	315,	316,	0
316, BEAM	,	1,	10,	316,	317,	0
317, BEAM	,	1,	9,	317,	318,	0
318, BEAM	,	1,	9,	318,	319,	0

319, BEAM	,	1,	9,	319,	320,	0
320, BEAM	,	1,	9,	320,	321,	0
321, BEAM	,	1,	9,	321,	322,	0
322, BEAM	,	1,	9,	322,	323,	0
323, BEAM	,	1,	11,	323,	324,	0
324, BEAM	,	1,	8,	324,	325,	0
325, BEAM	,	1,	8,	325,	326,	0
401, BEAM	,	1,	8,	401,	402,	0
402, BEAM	,	1,	8,	402,	403,	0
403, BEAM	,	1,	10,	403,	404,	0
404, BEAM	,	1,	9,	404,	405,	0
405, BEAM	,	1,	9,	405,	406,	0
406, BEAM	,	1,	9,	406,	407,	0
407, BEAM	,	1,	9,	407,	408,	0
408, BEAM	,	1,	9,	408,	409,	0
409, BEAM	,	1,	9,	409,	410,	0
410, BEAM	,	1,	11,	410,	411,	0
411, BEAM	,	1,	8,	411,	412,	0
412, BEAM	,	1,	8,	412,	413,	0
413, BEAM	,	1,	8,	413,	414,	0
414, BEAM	,	1,	8,	414,	415,	0
415, BEAM	,	1,	8,	415,	416,	0
416, BEAM	,	1,	10,	416,	417,	0
417, BEAM	,	1,	9,	417,	418,	0
418, BEAM	,	1,	9,	418,	419,	0
419, BEAM	,	1,	9,	419,	420,	0
420, BEAM	,	1,	9,	420,	421,	0
421, BEAM	,	1,	9,	421,	422,	0
422, BEAM	,	1,	9,	422,	423,	0
423, BEAM	,	1,	11,	423,	424,	0
424, BEAM	,	1,	8,	424,	425,	0
425, BEAM	,	1,	8,	425,	426,	0
501, BEAM	,	1,	1,	501,	502,	0
502, BEAM	,	1,	1,	502,	503,	0
503, BEAM	,	1,	3,	503,	504,	0
504, BEAM	,	1,	2,	504,	505,	0
505, BEAM	,	1,	2,	505,	506,	0
506, BEAM	,	1,	2,	506,	507,	0
507, BEAM	,	1,	2,	507,	508,	0
508, BEAM	,	1,	2,	508,	509,	0
509, BEAM	,	1,	2,	509,	510,	0
510, BEAM	,	1,	4,	510,	511,	0
511, BEAM	,	1,	1,	511,	512,	0
512, BEAM	,	1,	1,	512,	513,	0
513, BEAM	,	1,	1,	513,	514,	0
514, BEAM	,	1,	1,	514,	515,	0

515, BEAM , 1, 1, 515, 516, 0
516, BEAM , 1, 3, 516, 517, 0
517, BEAM , 1, 2, 517, 518, 0
518, BEAM , 1, 2, 518, 519, 0
519, BEAM , 1, 2, 519, 520, 0
520, BEAM , 1, 2, 520, 521, 0
521, BEAM , 1, 2, 521, 522, 0
522, BEAM , 1, 2, 522, 523, 0
523, BEAM , 1, 4, 523, 524, 0
524, BEAM , 1, 1, 524, 525, 0
525, BEAM , 1, 1, 525, 526, 0

*GROUP ; Group
; NAME, NODE_LIST, ELEM_LIST

지간 중앙 , ,
교대 단부 지점, 102to502by100,
연속지점부, ,
중간가로보 지점, ,
중앙단면 , 104to504by100,
내측거더 중앙단면, 204 304 404,
외측거더 중앙단면, 104 504,
가로보1 , ,
가로보2 , ,
가로보3 , ,
가로보4 , ,

*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 ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C40 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , C40
2, CONC , C27 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2007 , 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, 255, 0, 0, 255, 77, 77, 192, 220, 192, NO, 0.5
2, 255, 0, 0, 255, 77, 77, 192, 220, 192, NO, 0.5

*SECT-PSCVALUE ; PSC Value, General Section, Composite PC, Composite General
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line

; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, V1I, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
; [PART1]-I ; 2nd line
; [PART2]-I ; next lines
; ...
; [PART1]-J ; next lines

```

;      [PART2]-J                                ; next lines
;      ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERL_OUT, PERL_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK]   : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT]     : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
;         : [STIFF1]
;         : [STIFF2]
;         : [STIFF3]
;         : [STIFF1]                ; [STIFF1] of Part Sum.
;         : [STIFF2]                ; [STIFF2] of Part Sum.
;         : [STIFF3]                ; [STIFF3] of Part Sum.
;         : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Outer Polygon(PLANE)
;         : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;         : ...
;         : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Inner Polygon(PLANE)
;         : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn          ; Vertex(General-LINE)
;         : LINE=(bI-Tapered), V1I, VJ1, dTHIK1, iALIGN1             ; Line(General-LINE)
;         : ...
;         : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn             ; Line(General-LINE)
;         : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn       ; Line(General-LINE)
;         : ...
;         : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn      ; Line(General-LINE)
SECT=   1, VALUE      , END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=   2, VALUE      , CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=   3, TAPERED    , END-CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=   4, TAPERED    , CEN-END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

```

```

1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=   8, VALUE      , END BM(AC)-Inside , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=   9, VALUE      , CEN BM(AC)-Inside , CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  10, TAPERED    , END-CEN BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  11, TAPERED    , CEN-END BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

*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, PERL_OUT, PERL_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, Ixx1, Iyy1, Izz1                         ; 3rd line(STYPE=VALUE)
;      CyP1, CyM1, Czp1, Czm1, Qyb1, Qzb1, PERL_OUT1, PERL_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                                ; 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)
;      bUSERDEFMESHSIZE, MESHSIZE, 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
;      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
;      bUSERDEFMESHSIZE, MESHSIZE, 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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

```

```

5, DBUSER      , END CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.7, 0.4, 0, 0, 0, 0, 0, 0
6, DBUSER      , CON CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.6, 0, 0, 0, 0, 0, 0
7, DBUSER      , CEN CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.3, 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
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

```

```

*DGN-SECT
; 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, PERL_OUT, PERL_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, Ixx1, Iyy1, Izz1 ; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERL_OUT1, PERL_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, PERL_OUT2, PERL_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], W1, 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
; 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, HUSERI, HUSERJ, iVERT, VUSERI, 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, 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

```

```

5, DBUSER      , END CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 0.7, 0.4, 0, 0, 0, 0, 0, 0
6, DBUSER      , CON CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.6, 0, 0, 0, 0, 0, 0
7, DBUSER      , CEN CROSS BM      , CC, 0, 0, 0, 0, 0, YES, SB , 2, 1.77, 0.3, 0, 0, 0, 0, 0, 0

```

*DGN-SECT-PSCVALUE ; Design Section of PSC Value

```

; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
;   [STIFF1]                                           ; 2nd line
;   [STIFF2]                                           ; 3rd line
;   [STIFF3]                                           ; 4th line
;   T1, T2, BT, HT                                     ; 5th line(PSC)
;   bSHEARCHK, [SCHK], [WT]                           ; 6th line(PSC)
;   SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc       ; 7th line(COMPOSITE-PC)
;   OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                 ; Outer Polygon(PLANE)
;   IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                 ; Inner Polygon(PLANE)
;   ...
;   IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn                 ; Inner Polygon(PLANE)
;   VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn                 ; Vertex(General-LINE)
;   LINE=V11, VJ1, dTHIK1, iALIGN1                    ; Line(General-LINE)
;   ...
;   LINE=VIn, VJn, dTHIKn, iALIGNn                     ; Line(General-LINE)
;   LOOP=COUNT1, LIX11, LIX12, ..., LIXn             ; Line(General-LINE)

```

```

;   ...
;   LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn            ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
;   [STIFF1-I]                                         ; 2nd line
;   [STIFF2-I]                                         ; 3rd line
;   [STIFF3-I]                                         ; 4th line
;   [STIFF1-J]                                         ; 5th line
;   [STIFF2-J]                                         ; 6th line
;   [STIFF3-J]                                         ; 7th line
;   T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J    ; 8th line(PSC)
;   bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J]    ; 9rd line(PSC)
;   OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn            ; Outer Polygon(PLANE)
;   IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn            ; Inner Polygon(PLANE)
;   ...
;   IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn            ; Inner Polygon(PLANE)
;   VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn            ; Vertex(General-LINE)
;   LINE=bI, V11, VJ1, dTHIK1, iALIGN1               ; Line(General-LINE)
;   ...
;   LINE=bI, VIn, VJn, dTHIKn, iALIGNn               ; Line(General-LINE)
;   LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn         ; Line(General-LINE)
;   ...
;   LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn        ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
;   [PART1]                                           ; 2nd line
;   [PART2]                                           ; 3rd line
;   ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line -
COMPOSITE-GEN(TAPERED)
;   [PART1]-I                                         ; 2nd line
;   [PART2]-I                                         ; next lines
;   ...
;   [PART1]-J                                         ; next lines
;   [PART2]-J                                         ; next lines
;   ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [AREA]   : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] : Cyp, Cym, Czp, Czm, Qyb, Qzb, PERL_OUT, PERL_IN, Cy, Cz
; [STIFF3] : Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK]   : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT]     : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART]   : PART=part_num
;   : [STIFF1]
;   : [STIFF2]
;   : [STIFF3]
;   : [STIFF1] ; [STIFF1] of Part Sum.

```

```

;      : [STIFF2]                      : [STIFF2] of Part Sum.
;      : [STIFF3]                      : [STIFF3] of Part Sum.
;      : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn      ; Outer Polygon(PLANE)
;      : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn      ; Inner Polygon(PLANE)
;      : ...
;      : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn      ; Inner Polygon(PLANE)
;      : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn     ; Vertex(General-LINE)
;      : LINE=(bI-Tapered), V1I, VJ1, dTHIK1, iALIGN1         ; Line(General-LINE)
;      : ...
;      : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn          ; Line(General-LINE)
;      : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn    ; Line(General-LINE)
;      : ...
;      : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn   ; Line(General-LINE)
SECT=  1, VALUE      , END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  2, VALUE      , CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  3, TAPERED    , END-CEN BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  4, TAPERED    , CEN-END BM(AC)-Outside, CC, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.21106, 0, 0, 0.016, 0.763521, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.86701, 0, 0, 0.144, 0.899108, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  8, VALUE      , END BM(AC)-Inside , CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT=  9, VALUE      , CEN BM(AC)-Inside , CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 10, TAPERED    , END-CEN BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

```

```

0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
SECT= 11, TAPERED    , CEN-END BM(AC)-Inside, CC, 0, 0, 0, 0, 0, 0, 0, YES, GEN, 2, 2, YES
1.25088, 0, 0, 0.016, 0.781269, 0.137
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1.90684, 0, 0, 0.144, 0.922802, 0.171
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

*STLDCASE      ; Static Load Cases
; LCNAME, LCTYPE, DESC
합성후 고정하중, D , "합성후 고정하중(포장, 방호벽, 중분대)"

*CONSTRAINT      ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
2001to2020, 111111,

*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
2, 2005, 1005, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
3, 2004, 1004, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
4, 2003, 1003, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
5, 2002, 1002, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
6, 2001, 1001, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
8, 2010, 1010, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
9, 2009, 1009, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
10, 2008, 1008, GEN , 0, 600000, 1e+011, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
11, 2007, 1007, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
12, 2006, 1006, GEN , 0, 600000, 1510, 1e+011, 0, 0, 0, NO, 0.5, 0.5,
14, 2015, 1015, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
15, 2014, 1014, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
16, 2013, 1013, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
17, 2012, 1012, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
18, 2011, 1011, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
20, 2020, 1020, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
21, 2019, 1019, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,

```

22, 2018, 1018, GEN , 0, 600000, 1e+011, 1510, 0, 0, 0, NO, 0.5, 0.5,
23, 2017, 1017, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,
24, 2016, 1016, GEN , 0, 600000, 1510, 1510, 0, 0, 0, NO, 0.5, 0.5,

*OFFSET : Beam End Offsets
; ELEM_LIST, TYPE, RGDxi, RGDYi, RGDZi, RGDxj, RGDYj, RGDZj, GROUP ; TYPE=GLOBAL
; ELEM_LIST, TYPE, RGDj, GROUP ; TYPE=ELEMENT
1, ELEMENT, 0.33, 0.33,
2, ELEMENT, 0.33, 0.33,
3, ELEMENT, 0.33, 0.33,
4, ELEMENT, 0.33, 0.33,
5, ELEMENT, 0.33, 0.33,
6, ELEMENT, 0.33, 0.33,
7, ELEMENT, 0.33, 0.33,
8, ELEMENT, 0.33, 0.33,
9, ELEMENT, 0.33, 0.33,
10, ELEMENT, 0.33, 0.33,
11, ELEMENT, 0.33, 0.33,
12, ELEMENT, 0.33, 0.33,
13, ELEMENT, 0.33, 0.33,
14, ELEMENT, 0.33, 0.33,
15, ELEMENT, 0.33, 0.33,
16, ELEMENT, 0.33, 0.33,
17, ELEMENT, 0.33, 0.33,
18, ELEMENT, 0.33, 0.33,
19, ELEMENT, 0.33, 0.33,
20, ELEMENT, 0.33, 0.33,
21, ELEMENT, 0.33, 0.33,
22, ELEMENT, 0.33, 0.33,
23, ELEMENT, 0.33, 0.33,
24, ELEMENT, 0.33, 0.33,
25, ELEMENT, 0.33, 0.33,
26, ELEMENT, 0.33, 0.33,
27, ELEMENT, 0.33, 0.33,
28, ELEMENT, 0.33, 0.33,
29, ELEMENT, 0.33, 0.33,
30, ELEMENT, 0.33, 0.33,
31, ELEMENT, 0.33, 0.33,
32, ELEMENT, 0.33, 0.33,
33, ELEMENT, 0.33, 0.33,
34, ELEMENT, 0.33, 0.33,
35, ELEMENT, 0.33, 0.33,
36, ELEMENT, 0.33, 0.33,
37, ELEMENT, 0.33, 0.33,
38, ELEMENT, 0.33, 0.33,
39, ELEMENT, 0.33, 0.33,

40, ELEMENT, 0.33, 0.33,
41, ELEMENT, 0.33, 0.33,
42, ELEMENT, 0.33, 0.33,
43, ELEMENT, 0.33, 0.33,
44, ELEMENT, 0.33, 0.33,
45, ELEMENT, 0.33, 0.33,
46, ELEMENT, 0.33, 0.33,
47, ELEMENT, 0.33, 0.33,
48, ELEMENT, 0.33, 0.33,
49, ELEMENT, 0.33, 0.33,
50, ELEMENT, 0.33, 0.33,
51, ELEMENT, 0.33, 0.33,
52, ELEMENT, 0.33, 0.33,
53, ELEMENT, 0.33, 0.33,
54, ELEMENT, 0.33, 0.33,
55, ELEMENT, 0.33, 0.33,
56, ELEMENT, 0.33, 0.33,

*RIGIDLINK : Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
102, 111111, 1001,
112, 111111, 1006,
115, 111111, 1011,
125, 111111, 1016,
202, 111111, 1002,
212, 111111, 1007,
215, 111111, 1012,
225, 111111, 1017,
302, 111111, 1003,
312, 111111, 1008,
315, 111111, 1013,
325, 111111, 1018,
402, 111111, 1004,
412, 111111, 1009,
415, 111111, 1014,
425, 111111, 1019,
502, 111111, 1005,
512, 111111, 1010,
515, 111111, 1015,
525, 111111, 1020,

*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

415, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
416, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
417, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
418, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
419, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
420, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
421, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
422, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
423, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
424, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
425, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -0.949, 1, -0.949, 0, 0, 0, 0, , NO, 0, 0, NO
501, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
502, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
503, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
504, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
505, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
506, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
507, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
508, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
509, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
510, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
511, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
512, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
513, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
514, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
515, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
516, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
517, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
518, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
519, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
520, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
521, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
522, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
523, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
524, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO
525, BEAM , UNILoad, GZ, NO , NO, aDir[1], , , 0, -12.311, 1, -12.311, 0, 0, 0, 0, , NO, 0, 0, NO

; End of data for load case [합성후 고정하중] -----

*MVLDCODE ; 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=L1(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8

501, -0.733, 0.217, NO, 502, -0.733, 0.217, YES
503, -0.733, 0.217, NO, 504, -0.733, 0.217, NO
505, -0.733, 0.217, NO, 506, -0.733, 0.217, NO
507, -0.733, 0.217, NO, 508, -0.733, 0.217, NO
509, -0.733, 0.217, NO, 510, -0.733, 0.217, NO
511, -0.733, 0.217, NO, 512, -0.733, 0.217, NO
513, -0.733, 0.217, NO, 514, -0.733, 0.217, NO
515, -0.733, 0.217, YES, 516, -0.733, 0.217, NO
517, -0.733, 0.217, NO, 518, -0.733, 0.217, NO
519, -0.733, 0.217, NO, 520, -0.733, 0.217, NO
521, -0.733, 0.217, NO, 522, -0.733, 0.217, NO
523, -0.733, 0.217, NO, 524, -0.733, 0.217, NO
525, -0.733, 0.217, NO

NAME=L1(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8

101, 0.877, 0.217, NO, 102, 0.877, 0.217, YES
103, 0.877, 0.217, NO, 104, 0.877, 0.217, NO
105, 0.877, 0.217, NO, 106, 0.877, 0.217, NO
107, 0.877, 0.217, NO, 108, 0.877, 0.217, NO
109, 0.877, 0.217, NO, 110, 0.877, 0.217, NO
111, 0.877, 0.217, NO, 112, 0.877, 0.217, NO
113, 0.877, 0.217, NO, 114, 0.877, 0.217, NO
115, 0.877, 0.217, YES, 116, 0.877, 0.217, NO
117, 0.877, 0.217, NO, 118, 0.877, 0.217, NO
119, 0.877, 0.217, NO, 120, 0.877, 0.217, NO
121, 0.877, 0.217, NO, 122, 0.877, 0.217, NO
123, 0.877, 0.217, NO, 124, 0.877, 0.217, NO
125, 0.877, 0.217, NO

NAME=L2(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8

301, 0.667, 0.217, NO, 302, 0.667, 0.217, YES
303, 0.667, 0.217, NO, 304, 0.667, 0.217, NO
305, 0.667, 0.217, NO, 306, 0.667, 0.217, NO
307, 0.667, 0.217, NO, 308, 0.667, 0.217, NO
309, 0.667, 0.217, NO, 310, 0.667, 0.217, NO
311, 0.667, 0.217, NO, 312, 0.667, 0.217, NO
313, 0.667, 0.217, NO, 314, 0.667, 0.217, NO
315, 0.667, 0.217, YES, 316, 0.667, 0.217, NO
317, 0.667, 0.217, NO, 318, 0.667, 0.217, NO
319, 0.667, 0.217, NO, 320, 0.667, 0.217, NO
321, 0.667, 0.217, NO, 322, 0.667, 0.217, NO
323, 0.667, 0.217, NO, 324, 0.667, 0.217, NO
325, 0.667, 0.217, NO

NAME=L2(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8

301, -0.523, 0.217, NO, 302, -0.523, 0.217, YES
303, -0.523, 0.217, NO, 304, -0.523, 0.217, NO
305, -0.523, 0.217, NO, 306, -0.523, 0.217, NO

```

307, -0.523, 0.217, NO, 308, -0.523, 0.217, NO
309, -0.523, 0.217, NO, 310, -0.523, 0.217, NO
311, -0.523, 0.217, NO, 312, -0.523, 0.217, NO
313, -0.523, 0.217, NO, 314, -0.523, 0.217, NO
315, -0.523, 0.217, YES, 316, -0.523, 0.217, NO
317, -0.523, 0.217, NO, 318, -0.523, 0.217, NO
319, -0.523, 0.217, NO, 320, -0.523, 0.217, NO
321, -0.523, 0.217, NO, 322, -0.523, 0.217, NO
323, -0.523, 0.217, NO, 324, -0.523, 0.217, NO
325, -0.523, 0.217, NO
NAME=L3(우측 기준), LANE, , 0, 0, BOTH, 3, 1.8
201, -0.433, 0.217, NO, 202, -0.433, 0.217, YES
203, -0.433, 0.217, NO, 204, -0.433, 0.217, NO
205, -0.433, 0.217, NO, 206, -0.433, 0.217, NO
207, -0.433, 0.217, NO, 208, -0.433, 0.217, NO
209, -0.433, 0.217, NO, 210, -0.433, 0.217, NO
211, -0.433, 0.217, NO, 212, -0.433, 0.217, NO
213, -0.433, 0.217, NO, 214, -0.433, 0.217, NO
215, -0.433, 0.217, YES, 216, -0.433, 0.217, NO
217, -0.433, 0.217, NO, 218, -0.433, 0.217, NO
219, -0.433, 0.217, NO, 220, -0.433, 0.217, NO
221, -0.433, 0.217, NO, 222, -0.433, 0.217, NO
223, -0.433, 0.217, NO, 224, -0.433, 0.217, NO
225, -0.433, 0.217, NO
NAME=L3(좌측 기준), LANE, , 0, 0, BOTH, 3, 1.8
401, 0.577, 0.217, NO, 402, 0.577, 0.217, YES
403, 0.577, 0.217, NO, 404, 0.577, 0.217, NO
405, 0.577, 0.217, NO, 406, 0.577, 0.217, NO
407, 0.577, 0.217, NO, 408, 0.577, 0.217, NO
409, 0.577, 0.217, NO, 410, 0.577, 0.217, NO
411, 0.577, 0.217, NO, 412, 0.577, 0.217, NO
413, 0.577, 0.217, NO, 414, 0.577, 0.217, NO
415, 0.577, 0.217, YES, 416, 0.577, 0.217, NO
417, 0.577, 0.217, NO, 418, 0.577, 0.217, NO
419, 0.577, 0.217, NO, 420, 0.577, 0.217, NO
421, 0.577, 0.217, NO, 422, 0.577, 0.217, NO
423, 0.577, 0.217, NO, 424, 0.577, 0.217, NO
425, 0.577, 0.217, NO

```

```

*LSUPPORT      ; Lane Supports - Negative Moments at Interior Piers
; iTYPE, ELEM_LIST, POSITION      ; (When iTYPE=0)
; iTYPE, GRUP-NAME              ; (When iTYPE=1)
0, 115to515by100, END-I
0, 111to511by100, END-J

```

```

*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 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 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, L      ; 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, INT, bPHI1, PHI1, bPHI2, PHI2      ; user(Type 4)
;      [VEHICLE1]      ; user(Type 4): line 2
;      [VEHICLE2]      ; user(Type 4): line 3
;      [VEHICLE3]      ; user(Type 4): 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 AASHTO LRFD 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, KS2005
NAME=DL-24, 1, DL-24, 0, KS2005

*VCLASS ; Vehicle Classes
; NAME=NAME ; line 1
; VLOAD1, VLOAD2, ... ; from line 2
NAME=DB24
DB-24
NAME=DL24
DL-24

*MVLDCASE ; 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, ... ; 3nd line
; ... ; ...
; TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANE1n, LANE1n2, ... ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN, SCALE, DESC ; Permit
NAME=MOVING, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 설계활하중(부제력)
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
VC, DL24, 1, 1, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
VC, DB24, 1, 1, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
VC, DL24, 1, 1, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
NAME=DB하중-1차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 1, L1(좌측 기준)
NAME=DB하중-2차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 2, 2, L1(좌측 기준), L2(좌측 기준)
NAME=DB하중-3차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 3, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
NAME=DL하중-1차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 1, 1, L1(좌측 기준)
```

```
NAME=DL하중-2차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 2, 2, L1(좌측 기준), L2(좌측 기준)
NAME=DL하중-3차선(좌측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 3, 3, L1(좌측 기준), L2(좌측 기준), L3(좌측 기준)
NAME=DB하중-1차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 1, 1, L1(우측 기준)
NAME=DB하중-2차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 2, 2, L1(우측 기준), L2(우측 기준)
NAME=DB하중-3차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DB24, 1, 3, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
NAME=DL하중-1차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 1, 1, L1(우측 기준)
NAME=DL하중-2차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 2, 2, L1(우측 기준), L2(우측 기준)
NAME=DL하중-3차선(우측), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, 반력용
1, 1, 1, 1, 1, 0.5, 0.25
VC, DL24, 1, 3, 3, L1(우측 기준), L2(우측 기준), L3(우측 기준)
```

```
*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)
MV, DB하중-1차선(좌측), 0, 192, 192, 163, 255, 160, 192, 0, 192
MV, DB하중-2차선(좌측), 0, 128, 255, 255, 160, 255, 255, 87, 128
MV, DB하중-3차선(좌측), 0, 192, 192, 146, 0, 255, 255, 192, 160
ST, 합성후 고정하중, 160, 192, 255, 0, 192, 192, 192, 72, 0
MV, MOVING, 255, 192, 87, 192, 0, 192, 192, 0, 192
MV, DL하중-1차선(좌측), 192, 72, 0, 255, 255, 255, 255, 192, 87
MV, DL하중-2차선(좌측), 210, 210, 210, 0, 128, 192, 255, 255, 255
MV, DL하중-3차선(좌측), 85, 192, 0, 0, 128, 57, 255, 0, 192
MV, DB하중-1차선(우측), 192, 0, 128, 255, 128, 0, 163, 160, 255
MV, DB하중-2차선(우측), 255, 192, 160, 0, 192, 128, 93, 255, 87
MV, DB하중-3차선(우측), 192, 192, 192, 0, 192, 192, 255, 128, 0
MV, DL하중-1차선(우측), 210, 210, 210, 212, 160, 255, 163, 160, 255
MV, DL하중-2차선(우측), 192, 0, 128, 160, 192, 255, 255, 0, 128
MV, DL하중-3차선(우측), 93, 255, 87, 0, 128, 192, 212, 160, 255
```

```
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRIS, bCRBAR, bTPPF, bCSO, bSCS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO, NO
```

*MOVE-CTRL ; Moving Load Analysis Control
; METHOD, POINT, iIGP, iIGPN/DIST, PLATE, bSTRCALC, FRAME, bCSTRCALC, bREAC, bRG, RGN,
bDISP, bDG, DGN, bFM, bFG, FGN
EXACT, ALL, 0, 3, NODAL, NO, AXIAL, NO, YES, NO, , YES, NO, , YES, NO,

*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
; [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 , C40 , 1, KS01-Civil(RC), ,C40 , , , , 0, 0, 28000, NO, 0, 0
2, CONC , C27 , 1, KS01-Civil(RC), ,C27 , , , , 0, 0, 18900, NO, 0, 0

*ENDDATA