

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천4교_하부구조(대구방향)

: MIDAS/Civil Text(MCT) File.
: Date : 2016/1/24

*VERSION
8.4.5

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

*PROJINFO ; Project Information
USER=Microsoft
ADDRESS=Microsoft

*REBAR-MATL-CODE ; Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD300, KS01-Civil(RC), SD300

*NODE ; Nodes
: iNO, X, Y, Z
1, 0, 0, 0
2, 0, 0, 0.695
3, 0, 0, 1.695
4, 0, 0, 2.695
5, 0, 0, 3.695
6, 0, 0, 4.695
7, 0, 0, 5.695
8, 0, 0, 6.695
9, 0, 0, 7.695
10, 0, 0, 8.695
11, 0, 0, 10.195
12, -1.75, 0, 10.195
13, -2.3, 0, 10.195
14, -3.35, 0, 10.195
15, 1.75, 0, 10.195
16, 2.3, 0, 10.195
17, 3.35, 0, 10.195
18, -2.3, 0, 11.695
19, 2.3, 0, 11.695
20, 0, 0, 4.45
21, 1.4, 0, 10.195
22, -1.4, 0, 10.195
23, 0, 0, 0.3475

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*ELEMENT ; Elements
: iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
: iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID, LCAXIS ; Planar Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8 ; Solid Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL ; Frame(Ref. Point
)

12, BEAM	,	1,	2,	12,	22,	0,	0
13, BEAM	,	1,	1,	16,	15,	0,	0
14, BEAM	,	1,	1,	17,	16,	0,	0
15, BEAM	,	1,	1,	13,	12,	0,	0
16, BEAM	,	1,	2,	11,	21,	0,	0
17, BEAM	,	1,	2,	21,	15,	0,	0
18, BEAM	,	1,	2,	22,	11,	0,	0
19, BEAM	,	1,	1,	14,	13,	0,	0
20, BEAM	,	1,	3,	1,	23,	0,	0
21, BEAM	,	1,	3,	23,	2,	0,	0
22, BEAM	,	1,	3,	2,	3,	0,	0
23, BEAM	,	1,	3,	3,	4,	0,	0
24, BEAM	,	1,	3,	4,	5,	0,	0
25, BEAM	,	1,	3,	5,	20,	0,	0
26, BEAM	,	1,	3,	20,	6,	0,	0
27, BEAM	,	1,	3,	6,	7,	0,	0
28, BEAM	,	1,	3,	7,	8,	0,	0
29, BEAM	,	1,	3,	8,	9,	0,	0
30, BEAM	,	1,	3,	9,	10,	0,	0

*GROUP ; Group
: NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
column , 1to10 20 23, , 0

*MATERIAL ; Material
: iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]
: STEEL, CONC, USER
: iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2]
: SRC
: [DATA1] : 1, DB, NAME, CODE
: [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
: [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS ; Ort
hotropic
: [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C24 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2012 ,
C24

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*MATL-COLOR

; iMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5

*SECTION ; Section

; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st I
ine - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL ; 1st I
ine - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ; 2nd I
ine
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz ; 3rd I
ine
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz ; 4th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st I
ine - SRC
; D1, D2, [SRC] ; 2nd I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2 ; 1st I
ine - 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 I
ine - TAPERED
; DB, NAME1, NAME2 ; 2nd I
ine(STYPE=DB)
; [DIM1], [DIM2] ; 2nd I
ine(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18 ; 2nd I
ine(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1 ; 3rd I
ine(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th I
ine(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2 ; 5th I
ine(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27, D28 ; 6th I
ine(STYPE=VALUE)
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2 ; 7th I
ine(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ; 8th I
ine(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2 ; 9th I

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ine(STYPE=VALUE)
; OPT1, OPT2, [JOINT] ; 2nd I
ine(STYPE=PSC)
; ELAST, DEN, POIS, POIC, THERMAL ; 2nd I
ine(STYPE=PSC-CMPW)
; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd I
ine(STYPE=PSC)
; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] ; 3rd I
ine(STYPE=PSC-CMPW)
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; 4th I
ine(STYPE=PSC)
; [SIZE-A]-i ; 5th I
ine(STYPE=PSC)
; [SIZE-B]-i ; 6th I
ine(STYPE=PSC)
; [SIZE-C]-i ; 7th I
ine(STYPE=PSC)
; [SIZE-D]-i ; 8th I
ine(STYPE=PSC)
; [SIZE-A]-j ; 9th I
ine(STYPE=PSC)
; [SIZE-B]-j ; 10th
ine(STYPE=PSC)
; [SIZE-C]-j ; 11th
ine(STYPE=PSC)
; [SIZE-D]-j ; 12th
ine(STYPE=PSC)
; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ; 2nd I
ine(STYPE=CMP-B/I)
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i ; 3rd I
ine(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 4th I
ine(STYPE=CMP-B/I)
; N1, N2, Hr, Hr2, tr1, tr2 ; 5th I
ine(STYPE=CMP-B)
; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd I
ine(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd I
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-i ; 4th I
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-i ; 5th I
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-i ; 6th I
ine(STYPE=CMP-CI/CT)

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; [SIZE-D]-i ; 7th l
ine(STYPE=COMP-CI/CT)
; [SIZE-A]-j ; 8th l
ine(STYPE=COMP-CI/CT)
; [SIZE-B]-j ; 9th l
ine(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 l
ine - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Befor
e (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After
(STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd l
ine
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 4th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 3rd l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; [SIZE-A] ; 3rd l
ine
; [SIZE-B] ; 4th l
ine
; [SIZE-C] ; 5th l
ine
; [SIZE-D] ; 6th l
ine
; SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb ; 7th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l

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ine - PSC
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd l
ine
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th l
ine
; [SIZE-A] ; 5th l
ine
; [SIZE-B] ; 6th l
ine
; [SIZE-C] ; 7th l
ine
; [SIZE-D] ; 8th l
ine
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, iN1, iN2

; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCE
LL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCE
LL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCE
LL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCE
LL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCE
LL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, TAPERED , 내민보 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R
1.5, 2.5, 0, 0, 0, 0, 0, 0, 3, 2.5, 0, 0, 0, 0, 0, 0
2, DBUSER , 상단 중앙 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 2.7489, 0
, 0, 0, 0, 0, 0, 0, 0
3, DBUSER , 기둥 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 3.5, 0, 0, 0
, 0, 0, 0, 0, 0, 0

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*SECT-COLOR

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; 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

*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st I
ine - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL ; 1st I
ine - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ; 2nd I
ine
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz ; 3rd I
ine
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz ; 4th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st I
ine - SRC
; D1, D2, [SRC] ; 2nd I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2 ; 1st I
ine - 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 I
ine - TAPERED
; DB, NAME1, NAME2 ; 2nd I
ine(STYPE=DB)
; [DIM1], [DIM2] ; 2nd I
ine(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18 ; 2nd I
ine(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1 ; 3rd I
ine(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th I
ine(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2 ; 5th I
ine(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27, D28 ; 6th I
ine(STYPE=VALUE)
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2 ; 7th I
ine(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ; 8th I
ine(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2 ; 9th I

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ine(STYPE=VALUE)
; OPT1, OPT2, [JOINT] ; 2nd I
ine(STYPE=PSC)
; ELAST, DEN, POIS, POIC, THERMAL ; 2nd I
ine(STYPE=PSC-CMPW)
; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd I
ine(STYPE=PSC)
; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] ; 3rd I
ine(STYPE=PSC-CMPW)
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; 4th I
ine(STYPE=PSC)
; [SIZE-A]-i ; 5th I
ine(STYPE=PSC)
; [SIZE-B]-i ; 6th I
ine(STYPE=PSC)
; [SIZE-C]-i ; 7th I
ine(STYPE=PSC)
; [SIZE-D]-i ; 8th I
ine(STYPE=PSC)
; [SIZE-A]-j ; 9th I
ine(STYPE=PSC)
; [SIZE-B]-j ; 10th
ine(STYPE=PSC)
; [SIZE-C]-j ; 11th
ine(STYPE=PSC)
; [SIZE-D]-j ; 12th
ine(STYPE=PSC)
; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ; 2nd I
ine(STYPE=CMP-B/I)
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i ; 3rd I
ine(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 4th I
ine(STYPE=CMP-B/I)
; N1, N2, Hr, Hr2, tr1, tr2 ; 5th I
ine(STYPE=CMP-B)
; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd I
ine(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd I
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-i ; 4th I
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-i ; 5th I
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-i ; 6th I
ine(STYPE=CMP-CI/CT)

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; [SIZE-D]-i ; 7th l
ine(STYPE=COMP-CI/CT)
; [SIZE-A]-j ; 8th l
ine(STYPE=COMP-CI/CT)
; [SIZE-B]-j ; 9th l
ine(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 l
ine - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Befor
e (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After
(STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd l
ine
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 4th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 3rd l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; [SIZE-A] ; 3rd l
ine
; [SIZE-B] ; 4th l
ine
; [SIZE-C] ; 5th l
ine
; [SIZE-D] ; 6th l
ine
; SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb ; 7th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l

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ine - PSC
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd l
ine
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th l
ine
; [SIZE-A] ; 5th l
ine
; [SIZE-B] ; 6th l
ine
; [SIZE-C] ; 7th l
ine
; [SIZE-D] ; 8th l
ine
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, iN1, iN2

; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCE
LL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCE
LL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCE
LL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCE
LL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCE
LL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, TAPERED , 내민보 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R
1.5, 2.5, 0, 0, 0, 0, 0, 0, 3, 2.5, 0, 0, 0, 0, 0, 0
2, DBUSER , 상단 중앙 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 2.7489, 0
, 0, 0, 0, 0, 0, 0, 0
3, DBUSER , 기둥 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 3.5, 0, 0, 0
, 0, 0, 0, 0, 0, 0

```

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*TS-GROUP : Tapered Section Group
; NAME, ELEM_LIST, ZVAR, ZEXP, ZFROM, ZDIST, YVAR, YEXP, YFROM, YDIST, iSCM
왼쪽, 15 19, LINEAR, , , , LINEAR, , , , 0
오른쪽, 13 14, LINEAR, , , , LINEAR, , , , 0

*STLDCASE : Static Load Cases

; LCNAME, LCTYPE, DESC

자중, D,
활하중, L,
풍하중 교축, W,
부등침하, STL,
상부구조 고정하중, D,
풍하중 교축 직각, W,
풍하중 coping, W,
풍하중 column-유비고, W,
풍하중 column-유고려, W,
유수압, FP,
유목하중, CO,
풍하중(교축직)-재하, W,
풍하중 coping-재하, W,
풍하중 column-유비고, W,
풍하중 column-유고려, W,
풍하중 교축(재하), W,
풍하중-상부구조, W,
온도하중(교축), T,

*DGN-CONC : Concrete Design Code

; CODE=CODE, RHOC, RHOR, RHOW, MRF, SHR-RATIO { , METHOD, A1, A2 }

; line 1
; [AC1318-89] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V
; line 2
; [AC1318-95] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V
; line 2
; [AC1318-99] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V
; line 2
; [AC1318-02] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB
; line 2
; [AC1318-05] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB
; line 2
; [AC1318-08] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW
ALL, BNDR-MTHD, CD, IE; line 2
; [AC1318-11] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW
ALL, BNDR-MTHD, CD, IE; line 2
; [AIK-USD94] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V

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; line 2
; [TWN-USD92] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, bTOR, TRFT, SCWB
; line 2
; [TWN-USD100] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, bTOR, TRFT, SCWB
; line 2
; [KCI-USD99] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB
; line 2
; [KCI-USD03] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB
; line 2
; [KCI-USD07] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW
ALL, BNDR-MTHD, CD, IE; line 2
; [KCI-USD12] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW
ALL, BNDR-MTHD, CD, IE, EXPOSURE; line 2
; [BS8110-97] : GAMMA-MC, GAMMA-MS, GAMMA-MV
; line 2
; [EUROCODE2] : GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, iSCODE
; line 2
; [EUROCODE2:04] : GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, ALPHACC, iSCODE,
; line 2
; bRULE, WEAK-FACT, iDUC, GAMMA-RD-B, GAMMA-RD-C, S-GRUP
; line 2
; FRAMETYPE, AUA1, SPLCK, SOILFACTOR, TB, TC, TD, AGR, I, DAMPINGRAT
BCJOINT, NTC2008, UF, GAMMA-RD-W, GAMMA-RD-J ; line 2
; STRUT-ANG, bBEHAVIOR-FACT, BEHAVIOR-FACT-VALUE, iNTC, bVCWALL, bVC
COLM, dPHIEF, bAUTOA, bAUTOC, A, B, C ; line 2
; [EUROCODE2-2:05]: GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, GAMMA_CL, GAMMA_SL, ALPHAC
C, iSCODE, STRUT-ANG.; line 2
; [IS456:2000] : bSPECIAL, GAMMA-C, GAMMA-S, FOS, SubRex
; line 2
; [GB50010-02] : bSPECIAL, GAMMA-C, GAMMA-S, KIND, iSlabType
; line 2
; [GB50010-10] : bSPECIAL, GAMMA-C, GAMMA-S, KIND, iSlabType, bTOR, TRFT
; line 2
; [CSA-A23.3-94] : bSPECIAL, PHI-C, PHI-S, PHI-M
; line 2
; [AIK-WSD2K] : bSPECIAL
; line 2
; [AIJ-WSD99] : bSPECIAL, KIND
; line 2
; [AASHTO-LRFD12] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V, KIND
; line 2
; [AASHTO-LRFD02] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V, KIND
; line 2
; [AASHTO-LFD96] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2

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; [KSCE-USD05]      : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [KSCE-USD96]      : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [KSCE-RAIL-USE04] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [TWN-BRG-LSD90]   : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [JTJ023-85]       : GAMMA-C, GAMMA-S, KIND
; line 2
; [CSA-S6-00]       : bSPECIAL, PHI-C, PHI-S, KIND
; line 2
; [IRC:21-2000]     : GAMMA-C, GAMMA-S
; line 2
; [SNIP 2.05.03-84*] : nBRIDGE, bmb7mb8, mb7mb8Type, mb7, mb8, bmb9, mb9Type, mb9
; line 2
; [SP 35.13330.2011] : nBRIDGE, bmb7mb8, mb7mb8Type, mb7, mb8, bmb9, mb9Type, mb9
; line 2
; Member Check      : bBEAM, bCOLM, bBRCE, bWALL, bSLAB, bMAT, bRBEAM, bRCOLM, bBRCE, b
RWALL, bRSLAB, bRMAT, bSBEAM, bCANTIL, bUNDER-BM/COLM
CODE=KSCE-USD05, 0, 0, 0, 1, 0, , ,
NO, 0, 0, 0, 0, 0, 0
YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, 0

```

```

*CONSTRAINT      : Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
1, 111111,

```

```

*ELASTICLINK
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy, DRz, GR
OUP
; 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, D
IR, bSHEAR, DREND1, GROUP ; MULTI LINEAR
1, 18, 13, RIGID, 0, NO, 0.5, 0.5,
2, 19, 16, RIGID, 0, NO, 0.5, 0.5,

```

```

*SECTDATA=CHK      : Beam/Column Section Data for Design
; iSEC, TYPE, ENVTYPE
; line 1
; [BEAM-T]-I , [BEAM-T]-M , [BEAM-T]-J
; line 2(layer1)
; ...
; line 11(layer10)
; [BEAM-T]-I , [BEAM-T]-M , [BEAM-T]-J

```

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; [BEAM-B]-I , [BEAM-B]-M , [BEAM-B]-J
; line 12(layer1)
; ...
; [BEAM-B]-I , [BEAM-B]-M , [BEAM-B]-J
; line 21(layer10)
; [SUB-BAR]-I , [SUB-BAR]-M , [SUB-BAR]-J
; line 22
; Dc1, [COLM]-P1, [COLM]-P2, [COLM]-P3
; line 2(layer1)
; ...
; Dc5, [COLM]-P1, [COLM]-P2, [COLM]-P3
; line 6(layer5)
; SBSIZE, SBSPACE, SBNUM, SBSIZE(y), SBSIZE(z), SBNUM(y), SBNUM(z) ; line 7
; [BEAM-T] : Dt, NUM, S1, S2
; [BEAM-B] : Db, NUM, S1, S2
; [SUB-BAR] : NUM, S, DIST, ANGLE, bTBAR, TBAR, TBAR_S, BUNDLE, BUNDEL_N, LBAR, LBAR_N
, bBUBAR, BUBAR, BUBAR_N, BUBAR_ANGLE
; [COLM] : NUM, S1, S2
3, COLM, DRY
0.1, 104, D25, , 0, , , 0, ,
0.2, 98, D25, , 0, , , 0, ,
0, 0, , , 0, , , 0, ,
0, 0, , , 0, , , 0, ,
0, 0, , , 0, , , 0, ,
, 0, 2, , , 2, 2

```

```

*MEMBERTYPE      : Modify Member Type
; ELEM_LIST, TYPE, SUBTYPE
20to30, COLUMN, 0

```

```

*RIGIDLINK       : Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
11, 111111, 10,

```

*USE-STLD, 자중

```

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

```

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

*USE-STLD, 활하중

```

*CONLOAD         : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, 0, 0, -1453.72, 0, 0, 0,
19, 0, 0, -1453.72, 0, 0, 0,

```

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

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천4교_하부구조(대구방향)

*USE-STLD, 풍하중 교축

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, 0, 335.1, 0, 0, 0, 0,
19, 0, 335.1, 0, 0, 0, 0,

; End of data for load case [풍하중 교축] -----

*USE-STLD, 상부구조 고정하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, 0, 0, -6434.6, 0, 0, 0,
19, 0, 0, -6434.6, 0, 0, 0,

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

*USE-STLD, 풍하중 교축 직각

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, -360.9, 0, 0, 0, 0, 0,
19, -360.9, 0, 0, 0, 0, 0,

; End of data for load case [풍하중 교축 직각] -----

*USE-STLD, 풍하중 coping

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
17, -22.5, 0, 0, 0, 0, 0,

; End of data for load case [풍하중 coping] -----

*USE-STLD, 풍하중 column-유비고

*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
20, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,

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21, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
22, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
23, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
24, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
25, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
26, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
27, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
28, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
29, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,
30, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.25, 1, -5.25, 0, 0, 0, 0,
, NO, 0, 0, NO,

; End of data for load case [풍하중 column-유비고] -----

*USE-STLD, 풍하중 column-유고려

*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
26, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.33, 1, -5.33, 0, 0, 0, 0,
, NO, 0, 0, NO,
27, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.33, 1, -5.33, 0, 0, 0, 0,
, NO, 0, 0, NO,
28, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.33, 1, -5.33, 0, 0, 0, 0,
, NO, 0, 0, NO,
29, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.33, 1, -5.33, 0, 0, 0, 0,
, NO, 0, 0, NO,
30, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -5.33, 1, -5.33, 0, 0, 0, 0,
, NO, 0, 0, NO,

; End of data for load case [풍하중 column-유고려] -----

*USE-STLD, 유수압

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천4교_하부구조(대구방향)

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
4, -57.197, 0, 0, 0, 0, 0,

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

*USE-STLD, 유목하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
20, -30.3, 0, 0, 0, 0, 0,

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

*USE-STLD, 풍하중(교축직)-재하

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, -180.45, 0, 0, 0, 0, 0,
19, -180.45, 0, 0, 0, 0, 0,

; End of data for load case [풍하중(교축직)-재하] -----

*USE-STLD, 풍하중 coping-재하

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
17, -11.25, 0, 0, 0, 0, 0,

; End of data for load case [풍하중 coping-재하] -----

*USE-STLD, 풍하중 column-유비고

*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
20, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
21, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
22, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천4교_하부구조(대구방향)

, , NO, 0, 0, NO,
23, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
24, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
25, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
26, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
27, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
28, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
29, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,
30, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.625, 1, -2.625, 0, 0, 0, 0
, , NO, 0, 0, NO,

; End of data for load case [풍하중 column-유비고] -----

*USE-STLD, 풍하중 column-유고려

*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
26, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.665, 1, -2.665, 0, 0, 0, 0
, , NO, 0, 0, NO,
27, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.665, 1, -2.665, 0, 0, 0, 0
, , NO, 0, 0, NO,
28, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.665, 1, -2.665, 0, 0, 0, 0
, , NO, 0, 0, NO,
29, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.665, 1, -2.665, 0, 0, 0, 0
, , NO, 0, 0, NO,
30, BEAM , UNILoad, GX, NO , NO, aDir[1], , , , 0, -2.665, 1, -2.665, 0, 0, 0, 0
, , NO, 0, 0, NO,

; End of data for load case [풍하중 column-유고려] -----

*USE-STLD, 풍하중 교축(재하)

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천4교_하부구조(대구방향)

18, 0, 167.55, 0, 0, 0, 0,
19, 0, 167.55, 0, 0, 0, 0,

: End of data for load case [풍하중 교축(재하)] -----

*USE-STLD, 온도하중(교축)

*CONLOAD ; Nodal Loads
: NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
18, 0, 321.73, 0, 0, 0, 0,
19, 0, 321.73, 0, 0, 0, 0,

: End of data for load case [온도하중(교축)] -----

*LOADCOMB ; Combinations
: NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE ; line 1
: ANAL1, LCNAME1, FACT1, ... ; from line 2
NAME=코핑검토, GEN, ACTIVE, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 상부구조 고정하중, 1.3, ST, 활하중, 2.15
NAME=cLCB1, CONC, STRENGTH, 0, 0, 1.3D+2.15L+1.3Q, 0, 0
ST, 자중, 1.3, ST, 활하중, 2.15, ST, 상부구조 고정하중, 1.3
ST, 유수압, 1.3, ST, 유목하중, 1.3
NAME=cLCB2, CONC, STRENGTH, 0, 0, 1.3D+1.3W(교직)+1.3Q, 0, 0
ST, 자중, 1.3, ST, 상부구조 고정하중, 1.3, ST, 풍하중 교축 직각, 1.3
ST, 유수압, 1.3, ST, 유목하중, 1.3, ST, 풍하중 coping, 1.3
ST, 풍하중 column-유고려, 1.3
NAME=cLCB3, CONC, STRENGTH, 0, 0, 1.3D+1.3L+0.65WL+1.3Q, 0, 0
ST, 자중, 1.3, ST, 상부구조 고정하중, 1.3, ST, 활하중, 1.3
ST, 풍하중(교축직)-재하, 0.65, ST, 풍하중 coping-재하, 0.65
ST, 유수압, 1.3, ST, 유목하중, 1.3, ST, 풍하중 column-유고려, 0.65
NAME=cLCB4, CONC, STRENGTH, 0, 0, 1.3D+1.3L+1.3Q-1.3Q, 0, 0
ST, 자중, 1.3, ST, 상부구조 고정하중, 1.3, ST, 활하중, 1.3
ST, 유수압, 1.3, ST, 유목하중, 1.3
NAME=cLCB5, CONC, STRENGTH, 0, 0, 1.3D+1.3L+1.3Q-1.3Q, 0, 0
ST, 자중, 1.3, ST, 상부구조 고정하중, 1.3, ST, 활하중, 1.3
ST, 유수압, 1.3, ST, 유목하중, 1.3
NAME=cLCB6, CONC, STRENGTH, 0, 0, 1.25D+1.25W+1.25Q, 0, 0
ST, 자중, 1.25, ST, 상부구조 고정하중, 1.25, ST, 풍하중 교축 직각, 1.25
ST, 풍하중 coping, 1.25, ST, 풍하중 column-유고려, 1.25
ST, 유수압, 1.25, ST, 유목하중, 1.25
NAME=cLCB7, CONC, STRENGTH, 0, 0, 1.25D+1.25W+1.25Q, 0, 0
ST, 자중, 1.25, ST, 상부구조 고정하중, 1.25, ST, 풍하중 교축 직각, 1.25
ST, 풍하중 coping, 1.25, ST, 풍하중 column-유고려, 1.25
ST, 유수압, 1.25, ST, 유목하중, 1.25

PROJECT TITLE :

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	Author		File Name	청도천4교_하부구조(대구방향)

NAME=cLCB8, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 상부구조 고정하중, 1.25, ST, 활하중, 1.25
ST, 풍하중(교축직)-재하, 0.625, ST, 풍하중 coping-재하, 0.625
ST, 풍하중 column-유고려, 0.625, ST, 유수압, 1.25, ST, 유목하중, 1.25
NAME=cLCB9, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 상부구조 고정하중, 1.25, ST, 활하중, 1.25
ST, 풍하중(교축직)-재하, 0.625, ST, 풍하중 coping-재하, 0.625
ST, 풍하중 column-유고려, 0.625, ST, 유수압, 1.25, ST, 유목하중, 1.25

*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, 자중, 0, 128, 255, 192, 0, 192, 192, 128, 0
CBC, cLCB1, 255, 0, 192, 0, 192, 128, 93, 255, 87
CBC, cLCB3, 212, 160, 255, 160, 192, 255, 192, 72, 0
ST, 활하중, 0, 128, 128, 0, 128, 128, 163, 255, 160
ST, 풍하중 교축, 210, 210, 210, 0, 128, 192, 78, 0, 255
ST, 풍하중 교축 직각, 85, 0, 192, 255, 0, 192, 0, 192, 128
ST, 부등침하, 163, 255, 160, 212, 160, 255, 160, 255, 255
ST, 상부구조 고정하중, 0, 128, 192, 255, 87, 128, 255, 87, 128
ST, 풍하중 coping-재하, 0, 128, 128, 160, 255, 255, 0, 192, 128
CBC, cLCB2, 85, 192, 0, 163, 255, 160, 255, 160, 255
ST, 풍하중 coping, 255, 255, 255, 192, 72, 0, 148, 87, 255
ST, 풍하중 column-유비고, 192, 192, 192, 0, 157, 192, 192, 0, 192
ST, 풍하중 column-유고려, 85, 0, 192, 163, 255, 160, 0, 128, 192
ST, 유수압, 93, 255, 87, 0, 128, 255, 255, 87, 128
ST, 유목하중, 85, 192, 0, 255, 87, 87, 85, 192, 0
ST, 풍하중(교축직)-재하, 0, 128, 192, 0, 157, 192, 85, 0, 192
ST, 풍하중 column-유비고, 0, 128, 128, 160, 255, 255, 160, 192, 255
ST, 풍하중 column-유고려, 212, 160, 255, 85, 192, 0, 212, 160, 255
CBC, cLCB4, 255, 255, 255, 255, 128, 0, 0, 192, 128
CBC, cLCB6, 0, 128, 128, 163, 160, 255, 0, 128, 255
CBC, cLCB8, 210, 210, 210, 255, 255, 87, 93, 255, 87
CB, 코핑검토, 192, 192, 192, 163, 160, 255, 192, 192, 192
CBC, cLCB5, 192, 0, 192, 0, 128, 255, 160, 192, 255
CBC, cLCB7, 0, 157, 192, 255, 87, 128, 148, 87, 255
CBC, cLCB9, 255, 255, 87, 192, 192, 192, 255, 160, 255
ST, 풍하중 교축(재하), 160, 192, 255, 85, 192, 0, 146, 0, 255
ST, 풍하중-상부구조, 0, 128, 192, 0, 128, 57, 163, 255, 160
ST, 온도하중(교축), 192, 128, 0, 255, 87, 128, 85, 192, 0

*MEMBER ; Member
: iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
1, 20, NO, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

PROJECT TITLE :

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	Author		File Name	청도천4교_하부구조(대구방향)

*DGN-MATL : Modify Steel(Concrete) Material
 ; iMAT, TYPE, MNAME, [DATA1] ; STEEL
 ; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FC1, bSERV, SHORT, LONG ; CONC
 ; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA] ; SRC
 ; iMAT, TYPE, MNAME, [DATA5] ; STEEL(None) & KSCE-A

SD05

; [DATA1] : 1, DB, CODE, NAME or 2, ELAST, POISN, FU, FY1, FY2, FY3, FY4
 ; FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
 ; [DATA2] : 1, DB, CODE, NAME or 2, FC, CHK, LAMBDAA
 ; [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 , C24 , 1, KS01-Civil(RC), , C24 , NO, 1
 , KS01-Civil(RC), SD300, SD300, , , 16800, NO, 0, 0, , ,
 , 0, NO, 1, , , , 0, 0, 0

*LCOM-RCCOL : Load Combination for RC Column

; STRE=ST_LCNAME1, ST_LCNAME2, ST_LCNAME3, ...
 ; SERV=SE_LCNAME1, SE_LCNAME2, SE_LCNAME3, ...
 ; GRUP=CG_LCNAME1, CG_LCNAME2, CG_LCNAME3, ...
 STRE=cLCB8, cLCB6, cLCB4, cLCB3, cLCB2, cLCB1
 GRUP=column

*DPAR-RCCOL : Design Parameter for RC Column

; EL_LIST, iXDirBd, iYDirBd, bPosi, bPosj, bPosm, bAutoEq ; 1st l
 ine
 ; bAutoDeltans, bAutoDeltas, bShChk, bAutoBd, Rhomax, Cmy, Cmz, ; 2nd l
 ine
 ; Dc, Deltansy, Deltansz, Deltasy, Deltasz, Remark ; 3rd l
 ine
 ; bCTC, CTC, bBd_NS, Bd_nsy, Bd_nsz, bBd_S, Bd_sy, Bd_sz, bRS, Ry, Rz ; 4th l
 ine
 20, 0, 0, YES, NO, NO, YES
 YES, YES, YES, YES, 0.08, 1, 1
 0.15, 1, 1, 1, 1,
 NO, 0, NO, 0, 0, NO, 0, 0, NO, 0, 0

*CPAR-RCCOL :Checking Parameter for RC Column

; ELEM = ELEM, REMARK ; line 1
 ; POSITIONI = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 2(layer1)
 ; ... ;
 ; DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 6(layer5)

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	Author		File Name	청도천4교_하부구조(대구방향)

; SBNUM, SBDIST, SBSIZE ; line 7
 ; POSITIONM = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 8(layer1)
 ; ... ;
 ; DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 12(layer5)
 ; SBNUM, SBDIST, SBSIZE ; line 13
 ; POSITIONJ = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 14(layer1)
 ; ... ;
 ; DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 18(layer5)
 ; SBNUM, SBDIST, SBSIZE ; line 19
 ; [COLM] : NUM, S1, S2

ELEM = 20,
 POSITIONI = 0.1, 104, D25, , 0, , , 0, ,
 POSITIONI = 0.2, 98, D25, , 0, , , 0, ,
 POSITIONI = 0, , , 0, , , 0, ,
 POSITIONI = 0, , , 0, , , 0, ,
 POSITIONI = 0, , , 0, , , 0, ,
 0, 0,
 POSITIONM = 0, , , 0, , , 0, ,
 POSITIONM = 0, , , 0, , , 0, ,
 POSITIONM = 0, , , 0, , , 0, ,
 POSITIONM = 0, , , 0, , , 0, ,
 POSITIONM = 0, , , 0, , , 0, ,
 0, 0,
 POSITIONJ = 0, , , 0, , , 0, ,
 POSITIONJ = 0, , , 0, , , 0, ,
 POSITIONJ = 0, , , 0, , , 0, ,
 POSITIONJ = 0, , , 0, , , 0, ,
 POSITIONJ = 0, , , 0, , , 0, ,
 0, 0,

*SECTION MANAGER-GROUP & PART : Section Manager - Group & Part

; SECT = NO, bSAMEJ ; lin
 e 1
 ; GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE ; lin
 e 2
 ; ;
 ; LOOP UTIL (GRPDISIZE, GRPDJSIZE) ;
 ; GROUPID, GROUPNAME, GROUPTYPE ; lin
 e n
 ; ;
 ; LOOP UTIL (PARTISIZE, PARTJSIZE) ;

PROJECT TITLE :

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	Author		File Name	청도천4교_하부구조(대구방향)

```
;          PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER          ; lin
e n
;          LINESIZE, LINEINDEX[i].....          ; lin
e n
; .....          ;

      SECT=1, YES
0, 0, 0, 0

*SECTION MANAGER-STIFFENER      ; Section Manager - Stiffener
; SECT = NO, bSAMEJ          ; lin
e 1
;          STFNISIZE, STFNJSIZE          ; lin
e 2
; .....          ;

;          LOOP UTIL (STFNISIZE, STFNJSIZE)          ;

;          TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC          ; lin
e n
;          STIFFTYPE, dSIZE(0 ~ 20)          ; lin
e n
;          LINESIZE, LINEINDEX[i].....          ; lin
e n
; .....          ;

      SECT=1, YES
0, 0

*ENDDATA
```