

Story level L12, Column Line 3-B, Column # 19

Fy (ksi) = 50.00 Column Size = W14X43
 Orientation (deg.) = 90.0

INPUT DESIGN PARAMETERS:

	X-Axis	Y-Axis
Lu (ft) _____	13.00	13.00
K _____	1	1
Braced Against Joint Translation _____	Yes	Yes
Column Eccentricity (in) Top _____	9.35	6.50
Bottom _____	9.35	6.50

CONTROLLING AXIAL COLUMN LOADS - Skip-Load Case 1:

	Dead	Live	Roof
Axial (kip) _____	116.37	87.91	5.11

DEMAND CAPACITY RATIO: (1.2DL + 1.6LL + 0.5RF)

Pu (kip) = 282.86	0.90Pnx (kip) = 538.06	Pu/0.90Pnx = 0.526
	0.90Pny (kip) = 345.27	Pu/0.90Pny = 0.815
	0.90Pn (kip) = 345.27	Pu/0.90Pn = 0.815

CONTROLLING COMBINED COLUMN LOADS - Skip-Load Case 1:

	Dead	Live	Roof
Axial (kip) _____	116.37	87.91	5.11
Moments Top Mx (kip-ft) _____	14.39	17.60	0.00
My (kip-ft) _____	1.73	0.00	0.00
Bot Mx (kip-ft) _____	13.75	14.09	0.00
My (kip-ft) _____	1.68	0.00	0.00

Reverse curvature about X-Axis

Reverse curvature about Y-Axis

CALCULATED PARAMETERS: (1.2DL + 1.6LL + 0.5RF)

Pu (kip) = 282.86	0.90Pnx (kip) = 538.06
	0.90Pny (kip) = 345.27
Mux (kip-ft) = 45.42	0.90*Mnx (kip-ft) = 261.00
Muy (kip-ft) = 2.08	0.90*Mny (kip-ft) = 64.88
	Mcx (kip-ft) = 215.23
Rm = 1.00	
Cbx = 2.24	
Cmx = 0.26	Cmy = 0.21
Pex (kip) = 5033.76	Pey (kip) = 531.60
B1x = 1.00	B1y = 1.00

INTERACTION EQUATION

Pu/0.90*Pn = 0.819

 Eq H1-1a Per H1.3: $0.819 + 0.000 + 0.029 = 0.848$

This equation does
not consider
Mux/(0.9Mnx) in the
unity equation?