AGATE, INC.
P.O.BOX 117
SCOTTSDALE, AZ 85252-0117

STRUCTURAL DESIGN CALCULATIONS
FOR
GILA COUNTY
5515 S APACHE AVE
GLOBE, AZ

Approved Change
OHD REVISED
WALL Y-BRACING
PER ENGINEER
By SGP Date 2-21-12

GILA COUNTY
5515 S APACHE AVE
GLOBE, AZ 85501
M11013A

I-CODES
APPROVED FIELD COPY
GILA COUNTY COMMUNITY DEVELOPMENT
PERMIT #: G1105-019
DATE: 2-21-12 BY: SGP

RECEIVED
FEB 13 2012
BY: SGP

BUILDING DATA

Width (ft)	=	30.0
Length (ft)	=	40.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/12)	=	1.00/ 1.00
Dead Load (psf)	=	2.0
Live Load (psf)	=	20.0
Collat. Load (psf)	=	0.0
Snow Load (psf)	=	20.0
Wind Speed(mph)	=	90.0
Wind Code	=	IBC 06
Closed/Open	=	C
Exposure	=	C
Internal Wind Coeff	=	-0.18, +0.18
Importance - Wind	=	1.00
Importance - Seismic	=	1.00

Seismic Ss=37%g S1=10%g Soil Class "D"
Use Grp "II" Design Cat "C"

Designer = BEN

2/ 7/12

Registered Professional Engineer
CERTIFICATE
19088
BEN J.
RIEHL
Date Signed 2-7-12
ARIZONA, U.S.A.
EXPIRES 03/31/2013

1/129

Conterminous 48 States
2003 NEHRP Seismic Design Provisions
Latitude = 33.4085
Longitude = -110.8186
Spectral Response Accelerations Ss and S1
Ss and S1 = Mapped Spectral Acceleration Values
Site Class B - Fa = 1.0 ,Fv = 1.0
Data are based on a 0.05 deg grid spacing

Period (sec)	Sa (g)
0.2	0.371 (Ss, Site Class B)
1.0	0.101 (S1, Site Class B)

Conterminous 48 States
2003 NEHRP Seismic Design Provisions
Latitude = 33.4085
Longitude = -110.8186
Spectral Response Accelerations SMs and SM1
SMs = Fa x Ss and SM1 = Fv x S1
Site Class D - Fa = 1.503 ,Fv = 2.394

Period (sec)	Sa (g)
0.2	0.557 (SMs, Site Class D)
1.0	0.243 (SM1, Site Class D)

Conterminous 48 States
2003 NEHRP Seismic Design Provisions
Latitude = 33.4085
Longitude = -110.8186
Design Spectral Response Accelerations SDs and SD1
SDs = 2/3 x SMs and SD1 = 2/3 x SM1
Site Class D - Fa = 1.503 ,Fv = 2.394

Period (sec)	Sa (g)
0.2	0.371 (SDs, Site Class D)
1.0	0.162 (SD1, Site Class D)

1A

IBC 2006 LOADING

SEISMIC:

Ss= 37.1 % g
S1= 10.1 % g

Soil Class D

Modified

Sms= 55.7 % g
Sm1= 24.3 % g

Design spectral response parameters

Sds= 37.1 % g
Sd1= 16.2 % g

Seismic Use Group 2

Seismic Design Category C
or C

Ie = 1

R =	3.5	R =	3.25
Cs =	0.1061 W	Cs =	0.1143 W

Using Working Stress Design

V = Cs*W/1.4

V =	0.0758 W	V =	0.0816 W

WIND: 90 mph Exp C

Iw = 1

Height = 12 ft
Kz = 0.85
Kd = 0.85
Kzt = 1.00
qz = 15.0 psf

Roof Slope 1 :12

C1 =	0.22	C3 =	-0.55
C2 =	-0.87	C4 =	-0.47

Lateral load = 10.3 psf
Uplift load = 13.0 psf

@RF
W = 6 x 30 x 20/1000
= 3.6k
V = 3.6(.0758) = 0.27k
x1.4/2 = .19k/SIDE

@SIDE
W = 6x 30x40/1000
= 7.2k
V = 0.0816(7.2)
= 0.6k

LB

TO REMOVE X-BRACE @ GRID C

WIND LONGITUDINAL V = 2330#

SEISMIC LONGITUDINAL V = 600#

IF EACH SIDE HAS SHEARWALL

V = 2330/2 = 1165# / EACH

@ 126 PLF SHEAR CAPACITY

1165/126 = 10' WALL REQ'D

HAVE 40' - 10' DOOR - 4' DOOR = 26' WALL OK

1C

Steel Deck

per "Diaphragm Design Manual" SDI

MBCI "PBR" 26Ga Panel"

2 spans

t =	0.0198	in	D =	1.25	in
I =	0.0383	in4/ft	S =	0.0408	in3/ft
w =	36	in	Fy =	80.0	ksi

Panel to purlin connectors	**#12 Teks**	12	in OC @	Ends
Qf =	1.188 k	12	in OC @	Interior
Panel to panel connectors	**#14 Teks**	30	in OC @	Boundary
Qs =	0.564 k	30	in OC @	Interior
	Girts @	88	in OC	

Edge Panel Connector Limit

Su = (2g1+npg2+ne)Qf/L = 0.651 klf

xe	xp	g1	g2	ne	L	np
26	26	0.7222	0.7222	5.86667	14.6667	1

Interior Panel Connector Limit

Su = (2A(1-1)+B)Qf/L = 0.297 klf

B = nsgs+1/w^2(2np(sum(xp^2)+4sum(xe^2)) = 4.2126

1 = 1-DLv/[240(t)^.5] = 0.7286

ns	gs	xp^2	xe^2	Lv	A
5.86667	0.475	308	308	7.33333	1

Connector Limit

Su = 0.297 SF = 2.35 S = 0.126 klf

Panel Stability Limit

Sc =(3,250/Lv^2)*((I*t)^3)*d/s)^.25= 0.268 klf

d	f	g	W	e	s
12	0.875	0.625	1.398	4.938	13.545

SF = 2.00 S = 0.134 klf

Limit S = **0.126** klf

1D

FRONT SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
15.0	0.70	1.00	3.00	1.06	1.00	1.06

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
13.1	-14.3		.. Girt/Header
16.2	-21.5		.. Panel
13.1	-14.3		.. Jamb
22.5	-15.0		.. Parapet

BACK SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
15.0	0.70	1.00	3.00	1.06	1.00	1.06

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
13.1	-14.3		.. Girt/Header
16.2	-21.5		.. Panel
13.1	-14.3		.. Jamb
22.5	-15.0		.. Parapet

LEFT ENDWALL:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
2.0	0.0	20.0	20.0	15.0	0.70	1.00	3.00	1.06	1.00	1.06

BASIC LOADS AT EAVE:

Seis Load	Torsion Wind	Torsion Seismic
0.46	1.85	0.23

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
13.1	-14.3	.. Column
13.1	-14.3	.. Girt/Header
13.1	-14.3	.. Jamb
16.2	-21.5	.. Panel
22.5	-15.0	.. Parapet

WIND COEFFICIENTS:

Surf Id	Column/Rafter Wind_1 Left	Column/Rafter Wind_1 Right	Rafter Wind_2 Left	Rafter Wind_2 Right	Column/Brace Wind_2 Left	Column/Brace Wind_2 Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.34	-0.56	0.00	0.00
2	-1.06	-0.63	-0.70	-0.27	-1.06	-0.63	-0.87	0.00
3	-0.63	-1.06	-0.27	-0.70	-0.63	-1.06	-0.87	0.00
4	0.00	0.00	0.00	0.00	-0.56	0.34	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load No.	Id	Dead	---Live--- Coll	Roof	Floor	--Add_Snow- Snow	Drift	Slide	Wind_1 Left	Wind_1 Right	Wind_2 Left	Wind_2 Right	Long_Wind 1	Long_Wind 2	Column_Wind Press	Column_Wind Suct	Long Seis	Tran Seis	Aux_Load Id	Aux_Load Coef
28	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	6	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	8	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	9	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	10	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	11	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	12	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	13	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0	0.00
	14	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00
	15	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	16	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0	0.00
	17	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	18	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	21	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	22	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00

```
    23  1.02 1.02 0.75  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00  0.52  0  0.00
    24  1.02 1.02 0.75  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00 -0.52  0  0.00
    25  1.02 1.02 0.00  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00  0.52  0  0.00
    26  1.02 1.02 0.00  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00 -0.52  0  0.00
    27  0.57 0.00 0.00  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00  0.70  0  0.00
    28  0.57 0.00 0.00  0.00 0.00  0.00  0.00  0.00  0.00 0.00  0.00 0.00 0.00  0.00  0.00
0.00 -0.70  0  0.00
```

RAFTER DESIGN LOADS:

Load						--Add_Snow-		Wind_1		Wind_2		Long		Aux_Load	
No	Id	Dead	Coll	Live	Snow	Drift	Slide	Left	Right	Left	Right	Wind	Seis	Id	Coef
22	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	7	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0	0.00
	8	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	9	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	3	1.00
	10	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	4	1.00
	11	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	1.00
	12	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	1.00
	13	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	15	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	16	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	21	1.00	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	22	1.00	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Coeff
6	1	E1PAT_LL_1	1	1	0.50
	2	E1PAT_LL_2	1	2	0.50
	3	LWIND1_L	1	3	1.00
	4	LWIND1_R	1	4	1.00
	5	LWIND2_L	1	3	1.00
	6	LWIND2_R	1	4	1.00

ADDITIONAL LOADS:

No. Add	Add Id	Loc Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	X Dl1	Y Dl2	.. Conc .. Dist
8	1	2	------	D	-0.20	-0.20	0.08	0.00	15.05	
	2	3	------	D	-0.20	-0.20	-0.08	0.00	15.05	
	3	2	U_WIND	D	0.06	0.06	0.00	0.00	6.00	
	4	3	U_WIND	D	0.06	0.06	0.00	9.05	15.05	
	5	2	WINDL1	D	-0.08	-0.08	0.00	15.00	15.05	
	6	2	WINDL2	D	-0.08	-0.08	0.00	15.00	15.05	
	7	3	WINDR1	D	-0.08	-0.08	0.00	0.00	0.05	
	8	3	WINDR2	D	-0.08	-0.08	0.00	0.00	0.05	

RIGHT ENDWALL:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Wind_Load_Ratio Factor	Edge_Strip_Ratio Zone Width	Edge_Strip_Ratio Girt	Edge_Strip_Ratio Panel	Edge_Strip_Ratio Col/ Jamb
2.0	0.0	20.0	20.0	15.0	0.70	1.00	3.00	1.06	1.00	1.06

BASIC LOADS AT EAVE:

Seis Load	Torsion Wind	Torsion Seismic
0.18	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
13.1	-14.3	.. Column
13.1	-14.3	.. Girt/Header
13.1	-14.3	.. Jamb
16.2	-21.5	.. Panel
22.5	-15.0	.. Parapet

WIND COEFFICIENTS:

Surf Id	Column/Rafter Wind_1 Left	Column/Rafter Wind_1 Right	Rafter Wind_2 Left	Rafter Wind_2 Right	Column/Brace Wind_2 Left	Column/Brace Wind_2 Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.34	-0.56	0.00	0.00
2	-1.06	-0.63	-0.70	-0.27	-1.06	-0.63	-0.87	0.00
3	-0.63	-1.06	-0.27	-0.70	-0.63	-1.06	-0.87	0.00
4	0.00	0.00	0.00	0.00	-0.56	0.34	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load No.	Id	Dead	Live Coll	Live Roof	Live Floor	Add_Snow- Snow	Add_Snow- Drift	Add_Snow- Slide	Wind_1 Left	Wind_1 Right	Wind_2 Left	Wind_2 Right	Long_Wind 1	Long_Wind 2	Column_Wind Press	Column_Wind Suct	Long Seis	Tran Seis	Aux_Load Id	Aux_Load Coef
28	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0	0.00
	6	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0	0.00
	7	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0	0.00
	8	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0	0.00
	9	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0	0.00
	10	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0	0.00
	11	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0	0.00
	12	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0	0.00

13	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0	0.00
14	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00
15	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0	0.00
16	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0	0.00
17	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
18	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
21	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
22	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
23	1.02	1.02	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
24	1.02	1.02	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
25	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
26	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
27	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
28	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00

RAFTER DESIGN LOADS:

Load						--Add_Snow-		Wind_1		Wind_2		Long		Aux_Load	
No	Id	Dead	Coll	Live	Snow	Drift	Slide	Left	Right	Left	Right	Wind	Seis	Id	Coef
22	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	7	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0	0.00
	8	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	9	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	3	1.00
	10	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	4	1.00
	11	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	1.00
	12	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	1.00
	13	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	15	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	16	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	21	1.00	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	22	1.00	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Add_Load Coeff
6	1	E2PAT_LL_1	1	1	0.50
	2	E2PAT_LL_2	1	2	0.50
	3	LWIND1_L	1	3	1.00
	4	LWIND1_R	1	4	1.00
	5	LWIND2_L	1	3	1.00
	6	LWIND2_R	1	4	1.00

ADDITIONAL LOADS:

No. Add	Add Id	Loc Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	X D11	Y D12	.. Conc .. Dist
8	1	2	------	D	-0.20	-0.20	0.08	0.00	15.05	
	2	3	------	D	-0.20	-0.20	-0.08	0.00	15.05	
	3	2	U_WIND	D	0.06	0.06	0.00	0.00	6.00	
	4	3	U_WIND	D	0.06	0.06	0.00	9.05	15.05	
	5	2	WINDL1	D	-0.08	-0.08	0.00	15.00	15.05	
	6	2	WINDL2	D	-0.08	-0.08	0.00	15.00	15.05	
	7	3	WINDR1	D	-0.08	-0.08	0.00	0.00	0.05	
	8	3	WINDR2	D	-0.08	-0.08	0.00	0.00	0.05	

ROOFDES:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Ratio Factor	Surface Friction	Seis Factor	% Snow
2.0	0.0	20.0	20.0	15.0	0.70	1.00	0.00	1.000	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Suct_Roof	
10.0	-16.2		.. Purlins
0.0	-25.0		.. Gable Extensions
10.0	-17.7		.. Panels
6.0	-4.3	-10.3	.. Long Bracing, Building
9.1	-6.4		.. Long Bracing, Wall Edge Zone
22.5	-15.0	12.0	.. Long Bracing, Facia/Parapet

EDGE & CORNER ZONE WIND:

Wind Surf Id	No. Zone Id	Zone	Width	Length	--Purlin--- Press	Suct	---Panel--- Press	Suct
1	2	6	1	0.00	0.00	1.00	1.00	1.00	1.00
			3	0.00	3.00	1.00	1.18	1.00	1.68
			4	3.00	0.00	1.00	1.18	1.00	1.68
			5	0.00	3.00	1.00	1.18	1.00	1.68
			7	3.00	3.00	1.00	1.18	1.00	2.53
			8	3.00	3.00	1.00	1.18	1.00	2.53
	3	6	1	0.00	0.00	1.00	1.00	1.00	1.00
			3	0.00	3.00	1.00	1.18	1.00	1.68
			5	0.00	3.00	1.00	1.18	1.00	1.68
			6	3.00	0.00	1.00	1.18	1.00	1.68
			9	3.00	3.00	1.00	1.18	1.00	2.53
			10	3.00	3.00	1.00	1.18	1.00	2.53
2	2	1	1	0.00	0.00	1.00	1.00	1.00	1.00
	3	1	1	0.00	0.00	1.00	1.00	1.00	1.00

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      14 1.00 1.00 0.75  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.75 0.00 0.00  0.00  0.00
0.00  0  0.00
      15 1.00 1.00 0.00  0.00 0.75  0.00  0.00 0.75 0.00 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      16 1.00 1.00 0.00  0.00 0.75  0.75  0.00 0.75 0.00 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      17 1.00 1.00 0.00  0.00 0.75  0.00  0.75 0.75 0.00 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      18 1.00 1.00 0.00  0.00 0.75  0.00  0.00 0.00 0.75 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      19 1.00 1.00 0.00  0.00 0.75  0.75  0.00 0.00 0.75 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      20 1.00 1.00 0.00  0.00 0.75  0.00  0.75 0.00 0.75 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      21 1.00 1.00 0.00  0.00 0.75  0.00  0.00 0.00 0.00 0.75 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      22 1.00 1.00 0.00  0.00 0.75  0.75  0.00 0.00 0.00 0.75 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      23 1.00 1.00 0.00  0.00 0.75  0.00  0.75 0.00 0.00 0.75 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      24 1.00 1.00 0.00  0.00 0.75  0.00  0.00 0.00 0.00 0.00 0.75 0.00 0.00  0.00  0.00
0.00  0  0.00
      25 1.00 1.00 0.00  0.00 0.75  0.75  0.00 0.00 0.00 0.00 0.75 0.00 0.00  0.00  0.00
0.00  0  0.00
      26 1.00 1.00 0.00  0.00 0.75  0.00  0.75 0.00 0.00 0.00 0.75 0.00 0.00  0.00  0.00
0.00  0  0.00
      27 0.60 0.00 0.00  0.00 0.00  0.00  0.00 1.00 0.00 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      28 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 1.00 0.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      29 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 1.00 0.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      30 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 1.00 0.00 0.00  0.00  0.00
0.00  0  0.00
      31 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 1.00 0.00  0.00  0.00
0.00  1  1.00
      32 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 1.00 0.00  0.00  0.00
0.00  2  1.00
      33 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00-1.00 0.00  0.00  0.00
0.00  1  1.00
      34 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00-1.00 0.00  0.00  0.00
0.00  2  1.00
      35 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 1.00  0.00  0.00
0.00  3  1.00
      36 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 1.00  0.00  0.00
0.00  4  1.00
      37 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00-1.00  0.00  0.00
0.00  3  1.00
      38 0.60 0.00 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00-1.00  0.00  0.00
0.00  4  1.00
      39 1.03 1.03 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 0.00  0.00  0.70
0.00  0  0.00
      40 1.03 1.03 0.00  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 0.00  0.00 -0.70
0.00  0  0.00
      41 1.02 1.02 0.75  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 0.00  0.00  0.52
0.00  0  0.00
      42 1.02 1.02 0.75  0.00 0.00  0.00  0.00 0.00 0.00 0.00 0.00 0.00 0.00  0.00 -0.52
0.00  0  0.00
```

	43	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	
0.00	0	0.00															
	44	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	
0.00	0	0.00															
	45	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	
0.00	0	0.00															
	46	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	
0.00	0	0.00															
	47	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	
0.00	0	0.00															
	48	1.03	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	
0.00	0	0.00															
	49	1.02	1.02	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	
0.00	0	0.00															
	50	1.02	1.02	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	
0.00	0	0.00															
	51	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	
0.00	0	0.00															
	52	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	
0.00	0	0.00															
	53	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	
0.00	0	0.00															
	54	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	
0.00	0	0.00															

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Coeff
4	1	LWIND1_L2E	1	1	1.00
	2	LWIND1_R2E	1	2	1.00
	3	LWIND2_L2E	1	1	1.00
	4	LWIND2_R2E	1	2	1.00

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Type	Load Type	Fx W1	Fy W2	Mom Co	Dx Dl1	Dy Dl2	.. Conc .. Dist
6	1	2	U_WIND	D	0.14	0.14	0.000	0.00	6.00	
	2	3	U_WIND	D	0.14	0.14	0.000	9.05	15.05	
	3	2	WINDL1	D	-0.12	-0.12	0.000	15.00	15.05	
	4	2	WINDL2	D	-0.12	-0.12	0.000	15.00	15.05	
	5	3	WINDR1	D	-0.12	-0.12	0.000	0.00	0.05	
	6	3	WINDR2	D	-0.12	-0.12	0.000	0.00	0.05	

M11013 Reactions, Anchor Bolts, & Base Plates: 2/ 7/12 3:55pm

Frame Line	Col Line	Foundation_Loads(k) Max_Pos_Val Id	Horz	Vert	Max_Neg_Val Id	Horz	Vert	Anc._Bolt No.	Diam	Base_Plate Width	Len	Thick
1	A	6	0.6	-0.9	7	-0.5	-0.6	2	0.755	8.00	8.14	0.375
		1	0.0	1.5	6	0.6	-0.9					
1	B	8	1.2	-2.0	7	-1.1	-2.0	1	0.500	6.00	6.50	0.188
		1	0.0	4.2	8	1.2	-2.0					
1	C	9	0.6	-0.9	7	-0.5	-0.6	2	0.755	8.00	8.14	0.375
		1	0.0	1.5	9	0.6	-0.9					
3	C	6	0.6	-1.1	7	-0.6	-0.9	1	0.500	6.00	6.50	0.188
		1	0.0	1.8	6	0.6	-1.1					

3	B	8	1.2	-1.7	7	-1.1	-1.7	1	0.500	6.00	6.50	0.188
		1	0.0	3.3	8	1.2	-1.7					
3	A	9	0.6	-1.1	7	-0.6	-0.9	1	0.500	6.00	6.50	0.188
		1	0.0	1.8	9	0.6	-1.1					
2	A	1	2.7	8.6	2	-2.6	-2.5	4	0.750	8.00	12.75	0.375
					3	-1.0	-6.9					
2	C	4	2.6	-2.5	1	-2.7	8.6	4	0.750	8.00	12.75	0.375
		1	-2.7	8.6	5	1.0	-5.7					

LOAD COMBINATIONS:

Id	Combination
1	DL+CL+SL+Slide
2	0.60DL+WL2
3	0.60DL+LnWnd1+LWIND1_L2E
4	0.60DL+WR2
5	0.60DL-LnWnd1+LWIND1_R2E
6	0.60DL+WL2+WS
7	0.60DL+WP+LnWnd1
8	0.60DL+WS+LnWnd1
9	0.60DL+WR2+WS

M11013 Bracing Reactions Report: 2/ 7/12 3:55pm

BUILDING BRACING REACTIONS:

Wall Loc	Wall Line	Col Line	Reactions(k) Wind Horz	Reactions(k) Wind Vert	Reactions(k) Seismic Horz	Reactions(k) Seismic Vert	Panel Shear (lb/ft)
L_EW	1						61.67
F_SW	C	Torsional Bracing Used!					
R_EW	3						38.14
B_SW	A	2 ,1	2.33	1.21	0.30	0.16	

M11013 Additional Reactions Report: 2/ 7/12 3:55pm

Rigid Frame Column Reactions

Frame Line	Col Line	Dead Horz	Dead Vert	Live Horz	Live Vert	Snow Horz	Snow Vert	Wind_L1 Horz	Wind_L1 Vert	Wind_R1 Horz	Wind_R1 Vert
2	A	0.3	1.1	2.4	7.5	2.4	7.5	-2.6	-5.2	0.7	-2.8
2	C	-0.3	1.1	-2.4	7.5	-2.4	7.5	-0.7	-2.8	2.6	-5.2

Frame Line	Col Line	-Wind_L2-- Horz	Vert	-Wind_R2-- Horz	Vert	-LnWind_1- Horz	Vert	-LnWind_2- Horz	Vert	Seismic_L- Horz	Vert
2	A	-2.8	-3.1	0.5	-0.8	-1.1	-6.8	0.5	-3.4	-0.2	-0.2
2	C	-0.5	-0.8	2.8	-3.1	-0.6	-4.2	1.2	-3.6	-0.2	0.2

Frame Line	Col Line	Seismic_R- Horz	Vert	Ln_Seismic Horz	Vert	LWIND1_L2E Horz	Vert	LWIND1_R2E Horz	Vert	LWIND2_L2E Horz	Vert
2	A	0.2	0.2	-0.5	-0.8	0.0	-0.8	-0.1	-0.1	0.0	-0.8
2	C	0.2	-0.2	-0.5	0.4	0.1	-0.1	0.0	-0.8	0.1	-0.1

Frame Line	Col Line	LWIND2_R2E Horz	Vert
2	A	-0.1	-0.1
2	C	0.0	-0.8

Endwall Column Reactions

Frame Line	Col Line	Dead Vert	Live Vert	Snow Vert	Wind_L1 Vert	Wind_R1 Vert	Wind_L2 Vert	Wind_R2 Vert	Wind_P Horz
1	A	0.3	1.2	1.2	-1.0	-0.5	-1.0	-0.5	-0.5
1	B	0.6	3.7	3.7	-2.3	-2.3	-2.3	-2.3	-1.1
1	C	0.3	1.2	1.2	-0.5	-1.0	-0.5	-1.0	-0.5

Frame Line	Col Line	Wind_S Horz	LnWind1 Vert	LnWind2 Vert	Seis_L Vert	Seis_R Vert	-E1PAT_LL_1- Horz	Vert
1	A	0.6	-0.8	-0.5			0.0	0.7
1	B	1.2	-2.4	-1.4			0.0	0.9
1	C	0.6	-0.8	-0.5			0.0	-0.1

Frame Line	Col Line	-E1PAT_LL_2- Horz	Vert	--LWIND1_L-- Horz	Vert	--LWIND1_R-- Horz	Vert	--LWIND2_L-- Horz	Vert
1	A	0.0	-0.1	0.0	-0.3	0.0	0.0	0.0	-0.3
1	B	0.0	0.9	0.0	-0.1	0.0	-0.1	0.0	-0.1
1	C	0.0	0.7	0.0	0.0	0.0	-0.3	0.0	0.0

Frame Line	Col Line	--LWIND2_R-- Horz	Vert
1	A	0.0	0.0
1	B	0.0	-0.1
1	C	0.0	-0.3

Frame Line	Col Line	Dead Vert	Live Vert	Snow Vert	Wind_L1 Vert	Wind_R1 Vert	Wind_L2 Vert	Wind_R2 Vert	Wind_P Horz
3	C	0.2	1.6	1.6	-1.3	-0.8	-1.3	-0.8	-0.6
3	B	0.4	2.9	2.9	-1.8	-1.8	-1.8	-1.8	-1.1
3	A	0.2	1.6	1.6	-0.8	-1.3	-0.8	-1.3	-0.6

Frame Line	Col Line	Wind_S Horz	LnWind1 Vert	LnWind2 Vert	Seis_L Vert	Seis_R Vert	-E2PAT_LL_1- Horz	Vert
3	C	0.6	-1.0	-0.6			0.0	0.8
3	B	1.2	-1.9	-1.1			0.0	0.7
3	A	0.6	-1.0	-0.6			0.0	0.0

Frame Line	Col Line	-E2PAT_LL_2- Horz	Vert	--LWIND1_L-- Horz	Vert	--LWIND1_R-- Horz	Vert	--LWIND2_L-- Horz	Vert
3	C	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	-0.3
3	B	0.0	0.7	0.0	-0.1	0.0	-0.1	0.0	-0.1
3	A	0.0	0.8	0.0	0.0	0.0	-0.3	0.0	0.0

Frame Line	Col Line	--LWIND2_R-- Horz	Vert
3	C	0.0	0.0
3	B	0.0	-0.1
3	A	0.0	-0.3

M11013 Design Code 2/ 7/12 3:55pm

STRUCTURAL CODE:
Design Basis : WS - Working Stress
Hot Rolled Steel : AISC05
Cold Formed Steel : NAUS01

BUILDING CODE:
Wind Code : IBC 06
Seismic Zone : C

MODULUS OF ELASTICITY
Hot Rolled Steel : 29000 (ksi)
Cold Formed Steel : 29500 (ksi)

M11013 Purlin Layout(Surface= 2) 2/ 7/12 3:55pm

SURFACE LAYOUT:

Surface Id	Length	No. Row	Peak Space
2	15.052	3	1.000

PURLIN LOCATION:

Purlin Id	Surf Offset	Space	Load Width	Dead Load	Edge Wind	Show Report	-----Max_Load----- Id	UC	Report
1	3.996	3.996	4.498	0.71			5	0.77	Mom+Shr
2	8.996	5.000	5.000	0.64		Y	5	0.86	Mom+Shr
3	13.996	5.000	3.556	0.89			5	0.61	Mom+Shr
	15.052	1.056							

			Average=	0.73					

PURLIN LAYOUT:

Bay Id	Purlin Part	Design Length	---Lap(ft)-- Left	Right	No. Brace	Unit Weight	Total Weight
LExt	8X25Z16	0.33			0	1.0	2.9
1	8X25Z16	19.67		2.00	0	62.6	187.9
2	8X25Z16	19.33	2.00		0	61.7	185.0
RExt	8X25Z16	0.67			0	1.9	5.8
				Total(lb)=		127.2	381.5

SPECIAL LOADS:

Load_Location Start	End	Load_Type
0.000	3.000	Edge Zone Wind

ROOF PURLIN
Surface Id = 2
Purlin Id = 2
Offset = 9.00

PURLIN LAYOUT: (Purlin Id= 2)

Bay Id	Purlin Part	Design Length (ft)	---Lap(ft)-- Left	Right	Load Width	No. Brace	Available Reduction Factor Out	In
LExt	8X25Z16	0.33			5.00	0	0.00	0.70
1	8X25Z16	19.67		2.00	5.00	0	0.00	0.70
2	8X25Z16	19.33	2.00		5.00	0	0.00	0.70
RExt	8X25Z16	0.67			5.00	0	0.00	0.70

LOAD COMBINATION # 1 : DL+CL+LL

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.78		-1.15	-1.37	0.01		-2.76	7.11	3.33	5.86
2	1.36	1.14		-0.75	5.86	3.36	-2.58	12.43		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.15	2.69	0.43	RLap	3.33	5.21	0.64	RLap	0.77	-0.54	
2	LLap	1.14	2.69	0.42	LLap	3.36	5.21	0.65	LLap	0.77	-0.47	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.07	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear		UC	Calc Shear	Bear		UC
1					0.73	2.21	2.03	0.36
2	0.73	2.21	2.03	0.36				

LOAD COMBINATION # 2 : DL+CL+SL

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.78		-1.15	-1.37	0.01		-2.76	7.11	3.33	5.86
2	1.36	1.14		-0.75	5.86	3.36	-2.58	12.43		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.15	2.69	0.43	RLap	3.33	5.21	0.64	RLap	0.77	-0.54	
2	LLap	1.14	2.69	0.42	LLap	3.36	5.21	0.65	LLap	0.77	-0.47	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.07	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear		UC	Calc Shear	Bear		UC
1					0.73	2.21	2.03	0.36
2	0.73	2.21	2.03	0.36				

LOAD COMBINATION # 3 : DL+CL+SL+Drift

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.78		-1.15	-1.37	0.01		-2.76	7.11	3.33	5.86
2	1.36	1.14		-0.75	5.86	3.36	-2.58	12.43		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.15	2.69	0.43	RLap	3.33	5.21	0.64	RLap	0.77	-0.54	
2	LLap	1.14	2.69	0.42	LLap	3.36	5.21	0.65	LLap	0.77	-0.47	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.07	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay Id	Left_Lap Calc Shear	Bear	UC	Right_Lap Calc Shear	Bear	UC
1				0.73	2.21	2.03 0.36
2	0.73	2.21	2.03 0.36			

LOAD COMBINATION # 4 : DL+CL+SL+Slide

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.78		-1.15	-1.37	0.01		-2.76	7.11	3.33	5.86
2	1.36	1.14		-0.75	5.86	3.36	-2.58	12.43		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.15	2.69	0.43	RLap	3.33	5.21	0.64	RLap	0.77	-0.54	
2	LLap	1.14	2.69	0.42	LLap	3.36	5.21	0.65	LLap	0.77	-0.47	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.07	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay Id	Left_Lap Calc Shear	Bear	UC	Right_Lap Calc Shear	Bear	UC
1				0.73	2.21	2.03 0.36
2	0.73	2.21	2.03 0.36			

LOAD COMBINATION # 5 : DL+CL+0.75LL+0.75WP1

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.87		-1.29	-1.53	0.01		-3.08	7.11	3.72	6.54
2	1.52	1.27		-0.84	6.54	3.75	-2.88	12.43		0.03
RExt	0.08			0.00	0.03		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.04	2.69	0.02	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.29	2.69	0.48	RLap	3.72	5.21	0.71	RLap	0.86	-0.61	
2	LLap	1.27	2.69	0.47	LLap	3.75	5.21	0.72	LLap	0.86	-0.53	
RExt	LSup	0.08	2.69	0.03	LSup	0.03	5.21	0.01	LSup	0.00	0.08	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap Calc Shear	Bear	UC	Right_Lap Calc Shear	Bear	UC
1				0.82	2.21	2.03 0.40
2	0.82	2.21	2.03 0.40			

LOAD COMBINATION # 6 : DL+CL+0.75SL+0.75WP1

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.87		-1.29	-1.53	0.01		-3.08	7.11	3.72	6.54
2	1.52	1.27		-0.84	6.54	3.75	-2.88	12.43		0.03
RExt	0.08			0.00	0.03		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.04	2.69	0.02	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.29	2.69	0.48	RLap	3.72	5.21	0.71	RLap	0.86	-0.61	
2	LLap	1.27	2.69	0.47	LLap	3.75	5.21	0.72	LLap	0.86	-0.53	
RExt	LSup	0.08	2.69	0.03	LSup	0.03	5.21	0.01	LSup	0.00	0.08	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap Calc Shear	Bear	UC	Right_Lap Calc Shear	Bear	UC
1				0.82	2.21	2.03 0.40
2	0.82	2.21	2.03 0.40			

LOAD COMBINATION # 7 : DL+CL+0.75SL+0.75WP1+0.75Drift

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.87		-1.29	-1.53	0.01		-3.08	7.11	3.72	6.54
2	1.52	1.27		-0.84	6.54	3.75	-2.88	12.43		0.03
RExt	0.08			0.00	0.03		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.04	2.69	0.02	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.29	2.69	0.48	RLap	3.72	5.21	0.71	RLap	0.86	-0.61	
2	LLap	1.27	2.69	0.47	LLap	3.75	5.21	0.72	LLap	0.86	-0.53	
RExt	LSup	0.08	2.69	0.03	LSup	0.03	5.21	0.01	LSup	0.00	0.08	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear		UC	Calc Shear	Bear		UC
1					0.82	2.21	2.03	0.40
2	0.82	2.21	2.03	0.40				

LOAD COMBINATION # 8 : DL+CL+0.75SL+0.75WP1+0.75Slide

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)				
Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.87		-1.29	-1.53	0.01		-3.08	7.11	3.72	6.54
2	1.52	1.27		-0.84	6.54	3.75	-2.88	12.43		0.03
RExt	0.08			0.00	0.03		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	-0.04	2.69	0.02	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.29	2.69	0.48	RLap	3.72	5.21	0.71	RLap	0.86	-0.61	
2	LLap	1.27	2.69	0.47	LLap	3.75	5.21	0.72	LLap	0.86	-0.53	
RExt	LSup	0.08	2.69	0.03	LSup	0.03	5.21	0.01	LSup	0.00	0.08	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear		UC	Calc Shear	Bear		UC
1					0.82	2.21	2.03	0.40
2	0.82	2.21	2.03	0.40				

LOAD COMBINATION # 9 : 0.6DL+WS1

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)				
Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			0.03	0.00		0.00	0.00		0.00
1	-0.57		0.80	0.95	0.00		1.92	7.08	-2.30	-4.05
2	-0.94	-0.79		0.55	-4.05	-2.33	1.79	12.45		-0.02
RExt	-0.06			0.00	-0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	0.03	2.69	0.01	RSup	0.00	5.21	0.00	LSup	0.00	-0.03	
1	RLap	0.80	2.69	0.30	MidS	1.92	3.64	0.53	RLap	0.53	0.38	
2	LLap	-0.79	2.69	0.29	MidS	1.79	3.64	0.49	LLap	0.53	0.33	
RExt	LSup	-0.06	2.69	0.02	LSup	-0.02	5.21	0.00	LSup	0.00	-0.05	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear	UC		Calc Shear	Bear	UC	
1					0.51	2.21	2.03	0.25
2	0.51	2.21	2.03	0.25				

LOAD COMBINATION # 10 : DL+CL+SL/2+AUX3

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
	Left	Left	Right	Right	Left	Left	MidSpan		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.78		-1.15	-1.37	0.01		-2.76	7.11	3.33	5.86
2	1.36	1.14		-0.75	5.86	3.36	-2.58	12.43		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.04	
1	RLap	-1.15	2.69	0.43	RLap	3.33	5.21	0.64	RLap	0.77	-0.54	
2	LLap	1.14	2.69	0.42	LLap	3.36	5.21	0.65	LLap	0.77	-0.47	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.07	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay	Left_Lap				Right_Lap			
Id	Calc Shear	Bear	UC		Calc Shear	Bear	UC	
1					0.73	2.21	2.03	0.36
2	0.73	2.21	2.03	0.36				

LOAD COMBINATION # 11 : DL+CL+SL/2+AUX1

PURLIN ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
	Left	Left	Right	Right	Left	Left	MidSpan		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
LExt	0.00			-0.04	0.00		0.00	0.00		0.01
1	0.84		-1.09	-1.31	0.01		-3.24	7.71	2.17	4.56
2	0.81	0.69		-0.34	4.56	3.06	-0.96	13.61		0.01
RExt	0.04			0.00	0.01		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay	Shear(k)				Moment(f-k)				-Mom+Shr-		Deflect(in)	
Id	Loc	Calc	Limit	UC	Loc	Calc	Limit	UC	Loc	UC	Calc	Limit
LExt	RSup	-0.04	2.69	0.01	RSup	0.01	5.21	0.00	LSup	0.00	0.05	
1	RLap	-1.09	2.69	0.40	MidS	-3.24	5.21	0.62	RLap	0.58	-0.77	
2	LLap	0.69	2.69	0.26	LLap	3.06	5.07	0.60	LLap	0.64	-0.02	
RExt	LSup	0.04	2.69	0.01	LSup	0.01	5.21	0.00	LSup	0.00	0.02	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay Id	Left_Lap Calc Shear	Left_Lap Bear	Left_Lap UC	Right_Lap Calc Shear	Right_Lap Bear	Right_Lap UC
1				0.57	2.21	2.03 0.28
2	0.57	2.21	2.03 0.28			

LOAD COMBINATION # 12 : DL+CL+SL/2+AUX2

PURLIN ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
LExt	0.00			-0.02	0.00		0.00	0.00		0.00
1	0.36		-0.70	-0.81	0.00		-1.07	6.01	2.98	4.49
2	1.29	1.07		-0.83	4.49	2.13	-3.09	11.78		0.02
RExt	0.07			0.00	0.02		0.00	0.67		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Limit	UC	Moment(f-k) Loc	Calc	Limit	UC	-Mom+Shr- Loc	UC	Deflect(in) Calc	Limit
LExt	RSup	-0.02	2.69	0.01	RSup	0.00	5.21	0.00	LSup	0.00	0.01	
1	RLap	-0.70	2.69	0.26	RLap	2.98	5.13	0.58	RLap	0.63	-0.07	
2	LLap	1.07	2.69	0.40	MidS	-3.09	5.21	0.59	LLap	0.57	-0.70	
RExt	LSup	0.07	2.69	0.03	LSup	0.02	5.21	0.00	LSup	0.00	0.09	

LAP BOLT SHEAR/BEARING:
Bolt = 0.500 (A307)

Bay Id	Left_Lap Calc Shear	Left_Lap Bear	Left_Lap UC	Right_Lap Calc Shear	Right_Lap Bear	Right_Lap UC
1				0.56	2.21	2.03 0.28
2	0.56	2.21	2.03 0.28			

DEFLECTION:

LOAD COMBINATION # 1 : LL

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.49	1.31	0.38
2	-0.43	1.29	0.33
RExt	0.06		

LOAD COMBINATION # 2 : SL

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.49	1.31	0.38
2	-0.43	1.29	0.33
RExt	0.06		

LOAD COMBINATION # 3 : SL

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.49	1.31	0.38
2	-0.43	1.29	0.33
RExt	0.06		

LOAD COMBINATION # 4 : SL

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.49	1.31	0.38
2	-0.43	1.29	0.33
RExt	0.06		

LOAD COMBINATION # 5 : 0.75LL+0.52WP1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.50	1.97	0.26
2	-0.44	1.93	0.23
RExt	0.06		

LOAD COMBINATION # 6 : 0.75SL+0.52WP1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.50	1.97	0.26
2	-0.44	1.93	0.23
RExt	0.06		

LOAD COMBINATION # 7 : 0.75SL+0.52WP1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.50	1.97	0.26
2	-0.44	1.93	0.23
RExt	0.06		

LOAD COMBINATION # 8 : 0.75SL+0.52WP1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.50	1.97	0.26
2	-0.44	1.93	0.23
RExt	0.06		

LOAD COMBINATION # 9 : 0.7WS1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	-0.02		
1	0.28	1.97	0.14
2	0.25	1.93	0.13
RExt	-0.04		

LOAD COMBINATION # 10 : SL/2+AUX3

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.04		
1	-0.49	1.31	0.38
2	-0.43	1.29	0.33
RExt	0.06		

LOAD COMBINATION # 11 : SL/2+AUX1

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.05		
1	-0.72	1.31	0.55
2	0.02	1.29	0.01
RExt	0.01		

LOAD COMBINATION # 12 : SL/2+AUX2

Bay Id	DEFLECTION(in) Calc	Limit	Ratio
LExt	0.01		
1	-0.02	1.31	0.01
2	-0.66	1.29	0.51
RExt	0.08		

M11013 Roof Panel Summary 2/ 7/12 3:55pm

PANEL LAYOUT:

Surf Id	Part	Type	Gage	Yield	Surface Length	No. Purlin	Max Space	Rotation Stiffness
2	26 PBR	PBR	26.00	80.0	15.05	3	5.000	0.00
3	26 PBR	PBR	26.00	80.0	15.05	3	5.000	0.00

PANEL STRENGTH:

Surf Id	Area	Load Id	Support Moment(ft-lb/ft) Offset	Calc	Limit	Ratio	Midspan Moment(ft-lb/ft) Offset	Calc	Limit	Ratio
2	Left	1	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		2	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		3	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31

		4	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		5	9.0	61.1	130.8	0.47	11.9	-40.7	116.1	0.35
		6	9.0	-68.6	116.1	0.59	1.7	53.4	130.8	0.41
2	Center	1	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		2	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		3	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		4	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		5	9.0	61.1	130.8	0.47	11.9	-40.7	116.1	0.35
		6	4.0	-41.1	116.1	0.35	1.8	35.4	130.8	0.27
2	Right	1	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		2	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		3	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		4	9.0	54.7	130.8	0.42	11.9	-36.5	116.1	0.31
		5	9.0	61.1	130.8	0.47	11.9	-40.7	116.1	0.35
		6	9.0	-68.6	116.1	0.59	1.7	53.4	130.8	0.41
3	Left	1	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		2	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		3	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		4	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		5	6.1	61.1	130.8	0.47	3.2	-40.7	116.1	0.35
		6	6.1	-68.6	116.1	0.59	13.3	53.4	130.8	0.41
3	Center	1	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		2	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		3	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		4	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		5	6.1	61.1	130.8	0.47	3.2	-40.7	116.1	0.35
		6	11.1	-41.1	116.1	0.35	13.3	35.4	130.8	0.27
3	Right	1	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		2	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		3	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		4	6.1	54.7	130.8	0.42	3.2	-36.5	116.1	0.31
		5	6.1	61.1	130.8	0.47	3.2	-40.7	116.1	0.35
		6	6.1	-68.6	116.1	0.59	13.3	53.4	130.8	0.41

PANEL DEFLECTION:

Surf Id	Area	Load Id	-----Deflection(in)----- Offset	Calc	Limit	Ratio
2	Left	7	11.5	-0.09	0.33	0.28
		8	11.5	-0.09	0.33	0.28
		9	11.5	-0.09	0.33	0.28
		10	11.5	-0.09	0.33	0.28
		11	11.5	-0.05	0.50	0.09
		12	11.5	0.13	0.50	0.26
2	Center	7	11.5	-0.09	0.33	0.28
		8	11.5	-0.09	0.33	0.28
		9	11.5	-0.09	0.33	0.28
		10	11.5	-0.09	0.33	0.28
		11	11.5	-0.05	0.50	0.09
		12	11.5	0.09	0.50	0.17
2	Right	7	11.5	-0.09	0.33	0.28
		8	11.5	-0.09	0.33	0.28
		9	11.5	-0.09	0.33	0.28
		10	11.5	-0.09	0.33	0.28
		11	11.5	-0.05	0.50	0.09
		12	11.5	0.13	0.50	0.26

3	Left	7	3.6	-0.09	0.33	0.28
		8	3.6	-0.09	0.33	0.28
		9	3.6	-0.09	0.33	0.28
		10	3.6	-0.09	0.33	0.28
		11	3.6	-0.05	0.50	0.09
		12	3.6	0.13	0.50	0.26
3	Center	7	3.6	-0.09	0.33	0.28
		8	3.6	-0.09	0.33	0.28
		9	3.6	-0.09	0.33	0.28
		10	3.6	-0.09	0.33	0.28
		11	3.6	-0.05	0.50	0.09
		12	3.6	0.09	0.50	0.17
3	Right	7	3.6	-0.09	0.33	0.28
		8	3.6	-0.09	0.33	0.28
		9	3.6	-0.09	0.33	0.28
		10	3.6	-0.09	0.33	0.28
		11	3.6	-0.05	0.50	0.09
		12	3.6	0.13	0.50	0.26

LOAD COMBINATION:

Load Id	Description
1	DL+LL
2	DL+SL
3	DL+SL+Drift
4	DL+SL+Slide
5	DL+0.75SL+0.75WP1
6	0.6DL+WS1
7	LL
8	SL
9	SL+Drift
10	SL+Slide
11	WP1
12	WS1

PANEL SHEAR:

Limit = 0.0

Calc

Wind = 41.7

Seismic = 15.4

DIAGONAL BRACING:

Bay Id	Brace_Loc. Start	End	Diag_Brace Type	Size	Part	Brace_Tension(k) Wind Calc	Wind Limit	Seismic Calc	Seismic Limit	Max UC	KL/R
1	0.00	15.00	C	0.313	0.31_CBL	2.09	4.20	0.54	4.20	0.50	
	15.00	30.00	C	0.313	0.31_CBL	0.83	4.20	0.22	4.20	0.20	

TORSIONAL BRACING MOMENT:

Wind = 34.99

Seismic = 12.91

M11013 Sidewall Diagonal Bracing 2/ 7/12 3:55pm

PANEL SHEAR:

Wall Id	Base Length	Wind Calc	Seismic Calc	Limit
2	30.0	0.0	0.0	75.0
4	30.0	77.8	28.7	75.0

DIAGONAL BRACING:

Wall Id	Bay Id	Brace_Loc Bot	Brace_Loc Top	Diag_Brace Type	Diag_Brace Size	Diag_Brace Part	Brace_Tension(k) Wind Calc	Brace_Tension(k) Wind Limit	Brace_Tension(k) Seismic Calc	Brace_Tension(k) Seismic Limit	Max UC	KL/R
2	Torsional bracing used!											
4	2	0.0	12.0	C	0.313	0.31_CBL	2.63	4.20	0.97	4.20	0.63	

BASE REACTIONS:

Wall Id	Bay Id	Col Id	Wind_Max Horz	Wind_Max Vert(+/-)	Seismic_Max Horz	Seismic_Max Vert(+/-)
4	2	2	-2.33	1.21	-0.60	0.31
4	2	3	2.33	1.21	0.60	0.31

M11013 Purlin Strut, Longitudinal Load 2/ 7/12 3:55pm

Surf Id	Brace Locate	Purl Id	Bay Id	Purlin Part	Load Id	Axial(k) Calc	Axial(k) Limit	Axial(k) UC	Moment(f-k) Calc	Moment(f-k) Limit	Moment(f-k) UC	Axl+Mom Loc	Axl+Mom UC
2	15.0	3	1	8X25Z16	1	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					2	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					3	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					4	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					5	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					6	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					7	0.62	11.16	0.06	0.82	3.64	0.22	MidS	0.25
					8	0.62	11.16	0.06	0.82	3.64	0.22	MidS	0.25
					9	0.21	11.16	0.02	0.22	5.21	0.04	RLap	0.06
					10	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					11	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					12	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					13	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					14	0.21	11.16	0.02	0.12	5.21	0.02	RLap	0.04
2	15.0	3	2	8X25Z16	1	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					2	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					3	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					4	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					5	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					6	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					7	-0.21	29.01	0.01	0.76	3.64	0.21	MidS	0.20
					8	0.29	11.30	0.03	0.76	3.64	0.21	MidS	0.21
					9	0.06	11.30	0.01	0.22	5.21	0.04	LLap	0.04
					10	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					11	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31

					12	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					13	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					14	0.06	11.30	0.01	0.12	5.21	0.02	LLap	0.03
Surf Id	Brace Locate	Purl Id	Bay Id	Purlin Part	Load Id	----Axial(k)--- Calc	Limit	UC	--Moment(f-k)-- Calc	Limit	UC	Axl+Mom Loc	UC
3	15.0	1	1	8X25Z16	1	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					2	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					3	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					4	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					5	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					6	0.62	11.16	0.06	1.25	5.21	0.24	RLap	0.27
					7	0.62	11.16	0.06	0.82	3.64	0.22	MidS	0.25
					8	0.62	11.16	0.06	0.82	3.64	0.22	MidS	0.25
					9	0.21	11.16	0.02	0.22	5.21	0.04	RLap	0.06
					10	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					11	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					12	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					13	0.15	11.16	0.01	1.84	5.21	0.35	RLap	0.32
					14	0.21	11.16	0.02	0.12	5.21	0.02	RLap	0.04
3	15.0	1	2	8X25Z16	1	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					2	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					3	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					4	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					5	-0.21	29.01	0.01	1.26	5.21	0.24	LLap	0.24
					6	0.29	11.30	0.03	1.26	5.21	0.24	LLap	0.23
					7	-0.21	29.01	0.01	0.76	3.64	0.21	MidS	0.20
					8	0.29	11.30	0.03	0.76	3.64	0.21	MidS	0.21
					9	0.06	11.30	0.01	0.22	5.21	0.04	LLap	0.04
					10	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					11	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					12	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					13	0.05	11.30	0.00	1.85	5.21	0.36	LLap	0.31
					14	0.06	11.30	0.01	0.12	5.21	0.02	LLap	0.03

M11013 Eave Strut, Longitudinal Load(Wall= 2) 2/ 7/12 3:55pm

Wall Id	Bay Id	Eave Part	Bay Width	Axial_Calc Wind	Seis	Axial Limit	Axial Ratio	Max KL/r
2	1	8ES1-14	20.00	0.39	0.23	21.71	0.02	0
2	2	8ES1-14	20.00	0.39	0.12	21.71	0.02	0

M11013 Eave Strut, Longitudinal Load(Wall= 4) 2/ 7/12 3:55pm

Wall Id	Bay Id	Eave Part	Bay Width	Axial_Calc Wind	Seis	Axial Limit	Axial Ratio	Max KL/r
4	2	8ES1-14	20.00	2.06	0.85	21.71	0.09	0
4	1	8ES1-14	20.00	0.39	0.12	21.71	0.02	0

GIRT: LEVEL # 1 ; SPAN # 2

GIRT LAYOUT:

Bay Id	Girt Part	Bay Width	--Lap(ft)-- Left	Right	Girt Locate	Load Width	No. Brace	Girt Weight	Available Reduction Factor Out	In
1	8X25Z16	2.63			7.3333	5.7	0	7.6	0.00	0.70
2	8X25Z16	20.00			7.3333	5.7	0	57.8	0.00	0.70
								65.4		

WIND PRESSURE :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
1	-0.84			-1.04	0.00		1.17	1.31		2.47
2	0.87			-0.62	2.47		-2.58	11.66		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-1.04	2.69	0.39	RS	2.47	5.21	0.47	RS	0.61	0.08	
2	LS	0.87	2.69	0.32	MS	-2.58	5.21	0.50	LS	0.57	-0.48	2.67

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Left Lap	Right Lap	Right Sup	Moment(f-k) Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
1	0.92			1.13	0.00		-1.28	1.31		-2.70
2	-0.95			0.69	-2.70		2.83	11.57		0.00

STRENGTH/DEFLECTION:

Bay Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	1.13	2.69	0.42	RS	-2.70	5.21	0.52	RS	0.67	-0.09	
2	LS	-0.95	2.69	0.35	MS	2.83	3.64	0.78	LS	0.63	0.53	2.67

M11013 Sidewall Jamb/Header Summary 2/ 7/12 3:55pm

JAMB/HEADER LAYOUT:

Open Id	Bay Id	Member Locate	Member Part	Member Length	Member Weight
2	1	Jamb-L	8X25C16	11.33	32.8
		Jamb-R	8X25C16	11.33	32.8
		Header	8X25C16	10.00	28.9

STRENGTH/DEFLECTION:

Open Id	Member Locate	Ld Id	Shear(k) Calc	Shear(k) Vn/sf	Shear(k) UC	Moment(f-k) Calc	Moment(f-k) Mn/sf	Moment(f-k) UC	Mom+ Shear	Deflect(in) Calc	Deflect(in) Limit
2	Jamb-L	WP	-0.50	2.69	0.18	-1.52	5.02	0.30	0.00	-0.10	1.51
		WS	0.54	2.69	0.20	1.67	3.97	0.42	0.00	0.11	1.51
	Jamb-R	WP	-0.39	2.69	0.15	1.33	3.97	0.34	0.30	0.05	1.51
		WS	0.43	2.69	0.16	-1.46	5.02	0.29	0.33	-0.06	1.51
	Header	WP	0.04	2.69	0.02	-0.11	2.66	0.04	0.00	-0.01	1.33
		WS	0.05	2.69	0.02	0.12	3.26	0.04	0.00	0.01	1.33

M11013 Wall Panel Report (Bay= 2) 2/ 7/12 3:55pm

PANEL DATA:

Bay	Part	Type	Gage	Yield	Rotation Stiffness	Panel Height
2	26 PBR	PBR	26.00	80.0	0.00	11.33

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Mn/sf	Support UC	Midspan Calc	Midspan Mn/sf	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC
1	7.33	WP	81.9	130.8	0.63	-71.8	116.1	0.62	-0.33	0.98	0.34
		WS	-108.7	116.1	0.94	95.3	130.8	0.73	0.44	0.98	0.45
2	4.00	WP	81.9	130.8	0.63	-4.4	116.1	0.04	0.03	0.53	0.05
		WS	-108.7	116.1	0.94	5.8	130.8	0.04	-0.04	0.53	0.07

M11013 Endwall Design Code 2/ 7/12 3:55pm

STRUCTURAL CODE:
Design Basis : WS
Hot Rolled Steel : AISC05
Cold Formed Steel : NAUS01

BUILDING CODE:
Wind Code : IBC 06
Seismic Zone : C

MODULUS OF ELASTICITY
Hot Rolled Steel : 29000 (ksi)
Cold Formed Steel : 29500 (ksi)

M11013 Column & Rafter Design 2/ 7/12 3:55pm

MEMBER SIZES:

Member Id	Member Locate	Member Part	Web Size Depth	Web Size Thick	Flange Size Width	Flange Size Thick	Member Length	Member Weight
Col-1	0.7	W8X10	7.48	0.170	3.94	0.205	10.7	107.2
Col-2	15.0	8X25C16	8.00	16ga	2.50	16ga	11.9	34.4
Col-3	29.3	W8X10	7.48	0.170	3.94	0.205	10.7	107.2
Raf-1		W8X10	7.48	0.170	3.94	0.205	15.1	150.5
Raf-2		W8X10	7.48	0.170	3.94	0.205	15.1	150.5
							Total=	549.82

DESIGN ACTIONS/STRENGTH:

Mem Id	Load Id	Axial (k) Calc	Axial (k) Pn/sf	Shear (k) Calc	Shear (k) Vn/sf	Moment (f-k) Calc	Moment (f-k) Mn/sf
Col-1	1	1.51	39.59	0.00	26.83	0.00	15.15
Col-1	2	1.51	39.59	0.00	26.83	0.00	15.15
Col-1	3	1.51	39.59	0.00	26.83	0.00	15.15
Col-1	4	1.51	39.59	0.00	26.83	0.00	15.15
Col-1	5	0.43	39.59	-0.46	26.83	1.23	15.15
Col-1	6	0.81	39.59	-0.46	26.83	1.23	15.15
Col-1	7	0.43	39.59	-0.46	26.83	1.23	15.15
Col-1	8	0.43	39.59	-0.46	26.83	1.23	15.15
Col-1	9	0.43	39.59	-0.46	26.83	1.23	15.15
Col-1	10	0.81	39.59	-0.46	26.83	1.23	15.15
Col-1	11	0.81	39.59	-0.46	26.83	1.23	15.15
Col-1	12	0.81	39.59	-0.46	26.83	1.23	15.15
Col-1	13	-0.69	86.44	0.55	26.83	-1.47	15.15
Col-1	14	-0.36	86.44	0.55	26.83	-1.47	15.15
Col-1	15	-0.69	86.44	-0.61	26.83	1.65	15.15
Col-1	16	-0.36	86.44	-0.61	26.83	1.65	15.15
Col-1	17	-0.92	86.44	-0.61	26.83	1.65	15.15
Col-1	18	-0.41	86.44	-0.61	26.83	1.65	15.15
Col-1	19	-0.92	86.44	-0.61	26.83	1.65	15.15
Col-1	20	-0.41	86.44	-0.61	26.83	1.65	15.15
Col-1	21	0.31	39.59	0.00	26.83	0.00	15.15
Col-1	22	0.32	39.59	0.00	26.83	0.00	15.15
Col-1	23	1.22	39.59	0.00	26.83	0.00	15.15
Col-1	24	1.23	39.59	0.00	26.83	0.00	15.15
Col-1	25	0.30	39.59	0.00	26.83	0.00	15.15
Col-1	26	0.31	39.59	0.00	26.83	0.00	15.15
Col-1	27	0.17	39.59	0.00	26.83	0.00	15.15
Col-1	28	0.19	39.59	0.00	26.83	0.00	15.15
Col-2	1	4.24	8.57	0.00	2.69	0.00	5.02
Col-2	2	4.24	8.57	0.00	2.69	0.00	5.02
Col-2	3	4.24	8.57	0.00	2.69	0.00	5.02
Col-2	4	4.24	8.57	0.00	2.69	0.00	5.02
Col-2	5	1.59	8.57	-0.92	2.69	2.73	3.97

Col-2	6	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	7	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	8	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	9	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	10	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	11	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	12	1.59	8.57	-0.92	2.69	2.73	3.97
Col-2	13	-2.05	29.01	1.12	2.69	-3.33	3.97
Col-2	14	-1.06	29.01	1.12	2.69	-3.33	3.97
Col-2	15	-2.05	29.01	-1.22	2.69	3.64	3.97
Col-2	16	-1.06	29.01	-1.22	2.69	3.64	3.97
Col-2	17	-1.98	29.01	-1.22	2.69	3.64	3.97
Col-2	18	-1.98	29.01	-1.22	2.69	3.64	3.97
Col-2	19	-1.98	29.01	-1.22	2.69	3.64	3.97
Col-2	20	-1.98	29.01	-1.22	2.69	3.64	3.97
Col-2	21	0.57	8.57	0.00	2.69	0.00	5.02
Col-2	22	0.57	8.57	0.00	2.69	0.00	5.02
Col-2	23	3.32	8.57	0.00	2.69	0.00	5.02
Col-2	24	3.32	8.57	0.00	2.69	0.00	5.02
Col-2	25	0.57	8.57	0.00	2.69	0.00	5.02
Col-2	26	0.57	8.57	0.00	2.69	0.00	5.02
Col-2	27	0.30	8.57	0.00	2.69	0.00	5.02
Col-2	28	0.30	8.57	0.00	2.69	0.00	5.02
Col-3	1	1.51	39.59	0.00	26.83	0.00	15.15
Col-3	2	1.51	39.59	0.00	26.83	0.00	15.15
Col-3	3	1.51	39.59	0.00	26.83	0.00	15.15
Col-3	4	1.51	39.59	0.00	26.83	0.00	15.15
Col-3	5	0.81	39.59	-0.46	26.83	1.23	15.15
Col-3	6	0.43	39.59	-0.46	26.83	1.23	15.15
Col-3	7	0.81	39.59	-0.46	26.83	1.23	15.15
Col-3	8	0.81	39.59	-0.46	26.83	1.23	15.15
Col-3	9	0.81	39.59	-0.46	26.83	1.23	15.15
Col-3	10	0.43	39.59	-0.46	26.83	1.23	15.15
Col-3	11	0.43	39.59	-0.46	26.83	1.23	15.15
Col-3	12	0.43	39.59	-0.46	26.83	1.23	15.15
Col-3	13	-0.69	86.44	0.55	26.83	-1.47	15.15
Col-3	14	-0.36	86.44	0.55	26.83	-1.47	15.15
Col-3	15	-0.69	86.44	-0.61	26.83	1.65	15.15
Col-3	16	-0.36	86.44	-0.61	26.83	1.65	15.15
Col-3	17	-0.41	86.44	-0.61	26.83	1.65	15.15
Col-3	18	-0.92	86.44	-0.61	26.83	1.65	15.15
Col-3	19	-0.41	86.44	-0.61	26.83	1.65	15.15
Col-3	20	-0.92	86.44	-0.61	26.83	1.65	15.15
Col-3	21	0.32	39.59	0.00	26.83	0.00	15.15
Col-3	22	0.31	39.59	0.00	26.83	0.00	15.15
Col-3	23	1.23	39.59	0.00	26.83	0.00	15.15
Col-3	24	1.22	39.59	0.00	26.83	0.00	15.15
Col-3	25	0.31	39.59	0.00	26.83	0.00	15.15
Col-3	26	0.30	39.59	0.00	26.83	0.00	15.15
Col-3	27	0.19	39.59	0.00	26.83	0.00	15.15
Col-3	28	0.17	39.59	0.00	26.83	0.00	15.15
Raf-1	1	-0.17	86.44	-2.08	26.83	5.98	20.53
Raf-1	2	-0.17	86.44	-2.08	26.83	5.98	20.53
Raf-1	3	-0.17	86.44	-2.08	26.83	5.98	20.53
Raf-1	4	-0.17	86.44	-2.08	26.83	5.98	20.53
Raf-1	5	-0.02	86.44	1.23	26.83	2.41	8.08
Raf-1	6	-0.06	86.44	0.76	26.83	-2.85	18.50

Raf-1	7	0.03	59.82	0.74	26.83	1.62	7.57
Raf-1	8	-0.03	86.44	0.27	26.83	-1.44	18.50
Raf-1	9	-0.07	86.44	1.10	26.83	2.12	9.01
Raf-1	10	-0.08	86.44	1.04	26.83	-3.15	18.50
Raf-1	11	0.01	59.82	-0.14	26.83	0.27	5.92
Raf-1	12	0.01	59.82	-0.15	26.83	-0.34	18.50
Raf-1	13	0.14	59.82	-0.28	26.83	0.78	20.67
Raf-1	14	0.33	59.82	-0.26	26.83	0.78	20.37
Raf-1	15	0.09	59.82	-1.63	26.83	4.68	20.55
Raf-1	16	0.32	59.82	-1.63	26.83	4.68	20.51
Raf-1	17	0.10	59.82	-0.28	26.83	0.78	20.64
Raf-1	18	0.25	59.82	-0.27	26.83	0.78	20.41
Raf-1	19	0.15	59.82	-0.17	26.83	0.47	20.77
Raf-1	20	0.32	59.82	-0.16	26.83	0.47	11.96
Raf-1	21	0.11	59.82	-1.99	26.83	4.68	21.18
Raf-1	22	-0.10	86.44	-1.27	26.83	4.68	18.54
Raf-2	1	-0.17	86.44	2.08	26.83	5.98	20.53
Raf-2	2	-0.17	86.44	2.08	26.83	5.98	20.53
Raf-2	3	-0.17	86.44	2.08	26.83	5.98	20.53
Raf-2	4	-0.17	86.44	2.08	26.83	5.98	20.53
Raf-2	5	-0.06	86.44	-0.76	26.83	-2.85	18.50
Raf-2	6	-0.02	86.44	-1.23	26.83	2.41	8.08
Raf-2	7	-0.03	86.44	-0.27	26.83	-1.44	18.50
Raf-2	8	0.03	59.82	-0.74	26.83	1.62	7.57
Raf-2	9	-0.08	86.44	-1.04	26.83	-3.14	18.50
Raf-2	10	-0.07	86.44	-1.10	26.83	2.12	9.01
Raf-2	11	0.01	59.82	0.15	26.83	-0.34	18.50
Raf-2	12	0.01	59.82	0.14	26.83	0.27	5.92
Raf-2	13	0.33	59.82	0.26	26.83	0.78	20.37
Raf-2	14	0.14	59.82	0.28	26.83	0.78	20.67
Raf-2	15	0.32	59.82	1.63	26.83	4.68	20.51
Raf-2	16	0.09	59.82	1.63	26.83	4.68	20.55
Raf-2	17	0.25	59.82	0.27	26.83	0.78	20.41
Raf-2	18	0.10	59.82	0.28	26.83	0.78	20.64
Raf-2	19	0.32	59.82	0.16	26.83	0.47	11.96
Raf-2	20	0.15	59.82	0.17	26.83	0.47	20.77
Raf-2	21	-0.10	86.44	1.27	26.83	4.68	18.54
Raf-2	22	0.11	59.82	1.99	26.83	4.68	21.18

STRESS RATIO:

Mem Id	Load Id	Axial	Shear	Moment	Axl+Mom	Shr+Mom	Control UC
Col-1	1	0.04	0.00	0.00	0.04		0.04
Col-1	2	0.04	0.00	0.00	0.04		0.04
Col-1	3	0.04	0.00	0.00	0.04		0.04
Col-1	4	0.04	0.00	0.00	0.04		0.04
Col-1	5	0.01	0.02	0.08	0.08		0.08
Col-1	6	0.02	0.02	0.08	0.09		0.09
Col-1	7	0.01	0.02	0.08	0.08		0.08
Col-1	8	0.01	0.02	0.08	0.08		0.08
Col-1	9	0.01	0.02	0.08	0.08		0.08
Col-1	10	0.02	0.02	0.08	0.09		0.09
Col-1	11	0.02	0.02	0.08	0.09		0.09
Col-1	12	0.02	0.02	0.08	0.09		0.09
Col-1	13	0.01	0.02	0.10	0.08		0.08
Col-1	14	0.00	0.02	0.10	0.07		0.07
Col-1	15	0.01	0.02	0.11	0.08		0.08

Col-1	16	0.00	0.02	0.11	0.08		0.08
Col-1	17	0.01	0.02	0.11	0.09		0.09
Col-1	18	0.00	0.02	0.11	0.08		0.08
Col-1	19	0.01	0.02	0.11	0.09		0.09
Col-1	20	0.00	0.02	0.11	0.08		0.08
Col-1	21	0.01	0.00	0.00	0.01		0.01
Col-1	22	0.01	0.00	0.00	0.01		0.01
Col-1	23	0.03	0.00	0.00	0.03		0.03
Col-1	24	0.03	0.00	0.00	0.03		0.03
Col-1	25	0.01	0.00	0.00	0.01		0.01
Col-1	26	0.01	0.00	0.00	0.01		0.01
Col-1	27	0.00	0.00	0.00	0.00		0.00
Col-1	28	0.00	0.00	0.00	0.00		0.00
Col-2	1	0.49	0.00	0.00	0.49		0.49
Col-2	2	0.49	0.00	0.00	0.49		0.49
Col-2	3	0.49	0.00	0.00	0.49		0.49
Col-2	4	0.49	0.00	0.00	0.49		0.49
Col-2	5	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	6	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	7	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	8	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	9	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	10	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	11	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	12	0.19	0.34	0.69	0.89	0.44	0.89
Col-2	13	0.07	0.42	0.84	0.77	0.54	0.77
Col-2	14	0.04	0.42	0.84	0.80	0.54	0.80
Col-2	15	0.07	0.45	0.91	0.84	0.59	0.84
Col-2	16	0.04	0.45	0.91	0.88	0.59	0.88
Col-2	17	0.07	0.45	0.91	0.85	0.59	0.85
Col-2	18	0.07	0.45	0.91	0.85	0.59	0.85
Col-2	19	0.07	0.45	0.91	0.85	0.59	0.85
Col-2	20	0.07	0.45	0.91	0.85	0.59	0.85
Col-2	21	0.07	0.00	0.00	0.07		0.07
Col-2	22	0.07	0.00	0.00	0.07		0.07
Col-2	23	0.39	0.00	0.00	0.39		0.39
Col-2	24	0.39	0.00	0.00	0.39		0.39
Col-2	25	0.07	0.00	0.00	0.07		0.07
Col-2	26	0.07	0.00	0.00	0.07		0.07
Col-2	27	0.04	0.00	0.00	0.04		0.04
Col-2	28	0.04	0.00	0.00	0.04		0.04
Col-3	1	0.04	0.00	0.00	0.04		0.04
Col-3	2	0.04	0.00	0.00	0.04		0.04
Col-3	3	0.04	0.00	0.00	0.04		0.04
Col-3	4	0.04	0.00	0.00	0.04		0.04
Col-3	5	0.02	0.02	0.08	0.09		0.09
Col-3	6	0.01	0.02	0.08	0.08		0.08
Col-3	7	0.02	0.02	0.08	0.09		0.09
Col-3	8	0.02	0.02	0.08	0.09		0.09
Col-3	9	0.02	0.02	0.08	0.09		0.09
Col-3	10	0.01	0.02	0.08	0.08		0.08
Col-3	11	0.01	0.02	0.08	0.08		0.08
Col-3	12	0.01	0.02	0.08	0.08		0.08
Col-3	13	0.01	0.02	0.10	0.08		0.08
Col-3	14	0.00	0.02	0.10	0.07		0.07
Col-3	15	0.01	0.02	0.11	0.08		0.08
Col-3	16	0.00	0.02	0.11	0.08		0.08
Col-3	17	0.00	0.02	0.11	0.08		0.08

Col-3	18	0.01	0.02	0.11	0.09		0.09
Col-3	19	0.00	0.02	0.11	0.08		0.08
Col-3	20	0.01	0.02	0.11	0.09		0.09
Col-3	21	0.01	0.00	0.00	0.01		0.01
Col-3	22	0.01	0.00	0.00	0.01		0.01
Col-3	23	0.03	0.00	0.00	0.03		0.03
Col-3	24	0.03	0.00	0.00	0.03		0.03
Col-3	25	0.01	0.00	0.00	0.01		0.01
Col-3	26	0.01	0.00	0.00	0.01		0.01
Col-3	27	0.00	0.00	0.00	0.00		0.00
Col-3	28	0.00	0.00	0.00	0.00		0.00
Raf-1	1	0.00	0.08	0.29	0.29		0.29
Raf-1	2	0.00	0.08	0.29	0.29		0.29
Raf-1	3	0.00	0.08	0.29	0.29		0.29
Raf-1	4	0.00	0.08	0.29	0.29		0.29
Raf-1	5	0.00	0.05	0.30	0.30		0.30
Raf-1	6	0.00	0.03	0.15	0.15		0.15
Raf-1	7	0.00	0.03	0.21	0.21		0.21
Raf-1	8	0.00	0.01	0.08	0.07		0.07
Raf-1	9	0.00	0.04	0.24	0.23		0.23
Raf-1	10	0.00	0.04	0.17	0.16		0.16
Raf-1	11	0.00	0.01	0.05	0.04		0.04
Raf-1	12	0.00	0.01	0.02	0.02		0.02
Raf-1	13	0.00	0.01	0.04	0.04		0.04
Raf-1	14	0.01	0.01	0.04	0.04		0.04
Raf-1	15	0.00	0.06	0.23	0.23		0.23
Raf-1	16	0.01	0.06	0.23	0.23		0.23
Raf-1	17	0.00	0.01	0.04	0.04		0.04
Raf-1	18	0.00	0.01	0.04	0.04		0.04
Raf-1	19	0.00	0.01	0.02	0.02		0.02
Raf-1	20	0.01	0.01	0.04	0.04		0.04
Raf-1	21	0.00	0.07	0.22	0.22		0.22
Raf-1	22	0.00	0.05	0.25	0.25		0.25
Raf-2	1	0.00	0.08	0.29	0.29		0.29
Raf-2	2	0.00	0.08	0.29	0.29		0.29
Raf-2	3	0.00	0.08	0.29	0.29		0.29
Raf-2	4	0.00	0.08	0.29	0.29		0.29
Raf-2	5	0.00	0.03	0.15	0.15		0.15
Raf-2	6	0.00	0.05	0.30	0.30		0.30
Raf-2	7	0.00	0.01	0.08	0.07		0.07
Raf-2	8	0.00	0.03	0.21	0.21		0.21
Raf-2	9	0.00	0.04	0.17	0.16		0.16
Raf-2	10	0.00	0.04	0.24	0.23		0.23
Raf-2	11	0.00	0.01	0.02	0.02		0.02
Raf-2	12	0.00	0.01	0.05	0.04		0.04
Raf-2	13	0.01	0.01	0.04	0.04		0.04
Raf-2	14	0.00	0.01	0.04	0.04		0.04
Raf-2	15	0.01	0.06	0.23	0.23		0.23
Raf-2	16	0.00	0.06	0.23	0.23		0.23
Raf-2	17	0.00	0.01	0.04	0.04		0.04
Raf-2	18	0.00	0.01	0.04	0.04		0.04
Raf-2	19	0.01	0.01	0.04	0.04		0.04
Raf-2	20	0.00	0.01	0.02	0.02		0.02
Raf-2	21	0.00	0.05	0.25	0.25		0.25
Raf-2	22	0.00	0.07	0.22	0.22		0.22

COLUMN REACTIONS:

Mem Id	Load Id	Reaction(k) Horz(OP)	Vert	Horz(IP)
Col-1	1	0.00	1.51	0.00
Col-1	2	0.00	1.51	0.00
Col-1	3	0.00	1.51	0.00
Col-1	4	0.00	1.51	0.00
Col-1	5	0.46	0.43	0.00
Col-1	6	0.46	0.81	0.00
Col-1	7	0.46	0.43	0.00
Col-1	8	0.46	0.43	0.00
Col-1	9	0.46	0.43	0.00
Col-1	10	0.46	0.81	0.00
Col-1	11	0.46	0.81	0.00
Col-1	12	0.46	0.81	0.00
Col-1	13	-0.55	-0.63	0.00
Col-1	14	-0.55	-0.30	0.00
Col-1	15	0.61	-0.63	0.00
Col-1	16	0.61	-0.30	0.00
Col-1	17	0.61	-0.86	0.00
Col-1	18	0.61	-0.35	0.00
Col-1	19	0.61	-0.86	0.00
Col-1	20	0.61	-0.35	0.00
Col-1	21	0.00	0.31	0.00
Col-1	22	0.00	0.32	0.00
Col-1	23	0.00	1.22	0.00
Col-1	24	0.00	1.23	0.00
Col-1	25	0.00	0.30	0.00
Col-1	26	0.00	0.31	0.00
Col-1	27	0.00	0.17	0.00
Col-1	28	0.00	0.19	0.00
Col-2	1	0.00	4.24	0.00
Col-2	2	0.00	4.24	0.00
Col-2	3	0.00	4.24	0.00
Col-2	4	0.00	4.24	0.00
Col-2	5	0.92	1.59	0.00
Col-2	6	0.92	1.59	0.00
Col-2	7	0.92	1.59	0.00
Col-2	8	0.92	1.59	0.00
Col-2	9	0.92	1.59	0.00
Col-2	10	0.92	1.59	0.00
Col-2	11	0.92	1.59	0.00
Col-2	12	0.92	1.59	0.00
Col-2	13	-1.12	-2.03	0.00
Col-2	14	-1.12	-1.04	0.00
Col-2	15	1.22	-2.03	0.00
Col-2	16	1.22	-1.04	0.00
Col-2	17	1.22	-1.96	0.00
Col-2	18	1.22	-1.96	0.00
Col-2	19	1.22	-1.96	0.00
Col-2	20	1.22	-1.96	0.00
Col-2	21	0.00	0.57	0.00
Col-2	22	0.00	0.57	0.00
Col-2	23	0.00	3.32	0.00
Col-2	24	0.00	3.32	0.00
Col-2	25	0.00	0.57	0.00

Col-2	26	0.00	0.57	0.00
Col-2	27	0.00	0.30	0.00
Col-2	28	0.00	0.30	0.00
Col-3	1	0.00	1.51	0.00
Col-3	2	0.00	1.51	0.00
Col-3	3	0.00	1.51	0.00
Col-3	4	0.00	1.51	0.00
Col-3	5	0.46	0.81	0.00
Col-3	6	0.46	0.43	0.00
Col-3	7	0.46	0.81	0.00
Col-3	8	0.46	0.81	0.00
Col-3	9	0.46	0.81	0.00
Col-3	10	0.46	0.43	0.00
Col-3	11	0.46	0.43	0.00
Col-3	12	0.46	0.43	0.00
Col-3	13	-0.55	-0.63	0.00
Col-3	14	-0.55	-0.30	0.00
Col-3	15	0.61	-0.63	0.00
Col-3	16	0.61	-0.30	0.00
Col-3	17	0.61	-0.35	0.00
Col-3	18	0.61	-0.86	0.00
Col-3	19	0.61	-0.35	0.00
Col-3	20	0.61	-0.86	0.00
Col-3	21	0.00	0.32	0.00
Col-3	22	0.00	0.31	0.00
Col-3	23	0.00	1.23	0.00
Col-3	24	0.00	1.22	0.00
Col-3	25	0.00	0.31	0.00
Col-3	26	0.00	0.30	0.00
Col-3	27	0.00	0.19	0.00
Col-3	28	0.00	0.17	0.00

COLUMN MEMBER DEFLECTIONS:

Mem Id	Load Id	Deflection(in) Calc	Allow
Col-1	1	0.00	0.71
Col-1	2	0.00	0.71
Col-1	3	0.00	0.71
Col-1	4	0.00	0.71
Col-1	5	0.02	0.71
Col-1	6	0.02	0.71
Col-1	7	0.02	0.71
Col-1	8	0.02	0.71
Col-1	9	0.02	0.71
Col-1	10	0.02	0.71
Col-1	11	0.02	0.71
Col-1	12	0.02	0.71
Col-1	13	-0.02	0.71
Col-1	14	-0.02	0.71
Col-1	15	0.03	0.71
Col-1	16	0.03	0.71
Col-1	17	0.03	0.71
Col-1	18	0.03	0.71
Col-1	19	0.03	0.71
Col-1	20	0.03	0.71
Col-1	21	0.00	0.71

Col-1	22	0.00	0.71
Col-1	23	0.00	0.71
Col-1	24	0.00	0.71
Col-1	25	0.00	0.71
Col-1	26	0.00	0.71
Col-1	27	0.00	0.71
Col-1	28	0.00	0.71
Col-2	1	0.00	0.79
Col-2	2	0.00	0.79
Col-2	3	0.00	0.79
Col-2	4	0.00	0.79
Col-2	5	0.21	0.79
Col-2	6	0.21	0.79
Col-2	7	0.21	0.79
Col-2	8	0.21	0.79
Col-2	9	0.21	0.79
Col-2	10	0.21	0.79
Col-2	11	0.21	0.79
Col-2	12	0.21	0.79
Col-2	13	-0.26	0.79
Col-2	14	-0.26	0.79
Col-2	15	0.28	0.79
Col-2	16	0.28	0.79
Col-2	17	0.28	0.79
Col-2	18	0.28	0.79
Col-2	19	0.28	0.79
Col-2	20	0.28	0.79
Col-2	21	0.00	0.79
Col-2	22	0.00	0.79
Col-2	23	0.00	0.79
Col-2	24	0.00	0.79
Col-2	25	0.00	0.79
Col-2	26	0.00	0.79
Col-2	27	0.00	0.79
Col-2	28	0.00	0.79
Col-3	1	0.00	0.71
Col-3	2	0.00	0.71
Col-3	3	0.00	0.71
Col-3	4	0.00	0.71
Col-3	5	0.02	0.71
Col-3	6	0.02	0.71
Col-3	7	0.02	0.71
Col-3	8	0.02	0.71
Col-3	9	0.02	0.71
Col-3	10	0.02	0.71
Col-3	11	0.02	0.71
Col-3	12	0.02	0.71
Col-3	13	-0.02	0.71
Col-3	14	-0.02	0.71
Col-3	15	0.03	0.71
Col-3	16	0.03	0.71
Col-3	17	0.03	0.71
Col-3	18	0.03	0.71
Col-3	19	0.03	0.71
Col-3	20	0.03	0.71
Col-3	21	0.00	0.71
Col-3	22	0.00	0.71
Col-3	23	0.00	0.71

Col-3	24	0.00	0.71
Col-3	25	0.00	0.71
Col-3	26	0.00	0.71
Col-3	27	0.00	0.71
Col-3	28	0.00	0.71

RAFTER MEMBER DEFLECTIONS:

Mem Id	Load Id	Deflection(in) Calc	Allow
Raf-1	1	-0.10	1.00
Raf-1	2	-0.10	1.00
Raf-1	3	-0.10	1.00
Raf-1	4	-0.10	1.00
Raf-1	5	0.06	1.00
Raf-1	6	0.01	1.00
Raf-1	7	0.04	1.00
Raf-1	8	-0.01	1.00
Raf-1	9	0.04	1.00
Raf-1	10	0.03	1.00
Raf-1	11	0.00	1.00
Raf-1	12	-0.01	1.00
Raf-1	13	-0.01	1.00
Raf-1	14	-0.01	1.00
Raf-1	15	-0.08	1.00
Raf-1	16	-0.08	1.00
Raf-1	17	-0.01	1.00
Raf-1	18	-0.01	1.00
Raf-1	19	-0.01	1.00
Raf-1	20	-0.01	1.00
Raf-1	21	-0.13	1.00
Raf-1	22	-0.02	1.00
Raf-2	1	-0.10	1.00
Raf-2	2	-0.10	1.00
Raf-2	3	-0.10	1.00
Raf-2	4	-0.10	1.00
Raf-2	5	0.01	1.00
Raf-2	6	0.06	1.00
Raf-2	7	-0.01	1.00
Raf-2	8	0.04	1.00
Raf-2	9	0.03	1.00
Raf-2	10	0.04	1.00
Raf-2	11	-0.01	1.00
Raf-2	12	0.00	1.00
Raf-2	13	-0.01	1.00
Raf-2	14	-0.01	1.00
Raf-2	15	-0.08	1.00
Raf-2	16	-0.08	1.00
Raf-2	17	-0.01	1.00
Raf-2	18	-0.01	1.00
Raf-2	19	-0.01	1.00
Raf-2	20	-0.01	1.00
Raf-2	21	-0.02	1.00
Raf-2	22	-0.13	1.00

M11013 Rafter Splice Report 2/ 7/12 3:55pm

Splice Id	Typ	Surface- Id	Locate	Plate- Width	Thick	Design_Load- Id	Axl	Shr	Mom	Bolts(A325) Row	Diam	Space	Gage
1	M	3	0.0	6.0	0.375	1	0.2	2.1	6.0	2	0.500	3.50	3.00
						10	0.1	1.1	-3.1	2	0.500	3.50	3.00

LOAD COMBINATIONS:

1 - DL+CL+LL
10 - 0.6DL+LW1+LWIND1_R

M11013 Base Plate & Anchor Bolt Design 2/ 7/12 3:55pm

Base Plate Yield = 50.00 (ksi)
Concrete Bearing = 1.05 (ksi)

BASE SIZE:

Column_Base Id	Depth	Plate_Size(in) Width	Length	Thick	Bolts(A307) Row	Diam	Gage
Col-1	7.9	8.0	8.1	0.375	1	0.755	4.00
Col-2	8.0				1	0.500	4.00
Col-3	7.9	8.0	8.1	0.375	1	0.755	4.00

BASE REACTIONS:

Column Id	Max_Comp- Ld	Fy(k)	Max_Tens- Ld	Fy(k)	Max_Shear Ld	Fx(k)	Max_Tension+Shear Tens Ld	Fy(k)	Shear Fx(k)
Col-1	1	1.5	17	-0.9	15	0.6	17	-0.9	0.6
Col-2	1	4.2	13	-2.0	15	1.2	15	-2.0	1.2
Col-3	1	1.5	18	-0.9	15	0.6	18	-0.9	0.6

LOAD COMBINATIONS:

1 - DL+CL+LL
13 - 0.6DL+WP+LW1
15 - 0.6DL+WS+LW1
17 - 0.6DL+WL1+WS
18 - 0.6DL+WR1+WS

M11013 Flush Girt Design Report 2/ 7/12 3:55pm

GIRT LOCATION:

Bay Id	No. Girt	Girt Id 1
1	1	7.333
2	1	7.333

GIRT SPAN:

Bay Id	No. Girt	Girt Id 1
1	1	13.294
2	1	13.294

GIRT SIZE:

Bay Id	No. Girt	Girt Id 1
1	1	8X25Z16
2	1	8X25Z16

GIRT INSIDE FLANGE BRACE:

No. Brace/Bay 1	2
0	0

GIRT ACTIONS:

Bay Id	Girt Id	Ld Id	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+ Shear	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC	Unbraced- Minor	Unbraced- Cb
1	1	WP	0.54	2.69	0.20	-1.79	5.21	0.34	0.28	-0.17	1.77	0.10	0.0	1.00
		WS	-0.60	2.69	0.22	1.96	3.38	0.58	0.30	0.19	1.77	0.11	13.3	1.00
2	1	WP	0.54	2.69	0.20	-1.79	5.21	0.34	0.28	-0.17	1.77	0.10	0.0	1.00
		WS	0.60	2.69	0.22	1.96	3.38	0.58	0.30	0.19	1.77	0.11	13.3	1.00

M11013 Endwall Diagonal Bracing Summary 2/ 7/12 3:55pm

PANEL SHEAR WITH NO BRACING:

Base Length	Transverse Wind	Transverse Seismic	Torsion Wind	Torsion Seismic	Allow
30.00	38.1	6.0	61.7	15.3	75.0

BRACING NOT REQUIRED

M11013 Wall Panel Report 2/ 7/12 3:55pm

PANEL DATA:

Bay	Part	Type	Gage	Yield	Rotation Stiffness	Panel Height
1	26 PBR	PBR	26.00	80.0	0.00	12.36

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Mn/sf	Support UC	Midspan Calc	Midspan Mn/sf	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC
1	7.33	WP	85.4	130.8	0.65	-70.4	116.1	0.61	-0.32	0.98	0.33
		WS	-113.4	116.1	0.98	93.4	130.8	0.71	0.42	0.98	0.43
2	5.03	WP	85.4	130.8	0.65	-17.4	116.1	0.15	0.00	0.67	0.00
		WS	-113.4	116.1	0.98	23.1	130.8	0.18	0.00	0.67	0.00

M11013 Endwall Design Code 2/ 7/12 3:55pm

STRUCTURAL CODE:
Design Basis : WS
Hot Rolled Steel : AISC05
Cold Formed Steel : NAUS01

BUILDING CODE:
Wind Code : IBC 06
Seismic Zone : C

MODULUS OF ELASTICITY
Hot Rolled Steel : 29000 (ksi)
Cold Formed Steel : 29500 (ksi)

M11013 Column & Rafter Design 2/ 7/12 3:55pm

MEMBER SIZES:

Member Id	Member Locate	Member Part	---Web_Size-- Depth	Thick	-Flange_Size- Width	Thick	Member Length	Member Weight
Col-1	0.7	8X25C16	8.00	16ga	2.50	16ga	11.0	31.7
Col-2	15.0	8X25C16	8.00	16ga	2.50	16ga	12.2	35.2
Col-3	29.3	8X25C16	8.00	16ga	2.50	16ga	11.0	31.7
Raf-1		10X35C14	10.00	14ga	3.50	14ga	15.1	69.8
Raf-2		10X35C14	10.00	14ga	3.50	14ga	15.1	69.8
							Total=	238.23

DESIGN ACTIONS/STRENGTH:

Mem Id	Load Id	---Axial(k)-- Calc	Pn/sf	---Shear(k)-- Calc	Vn/sf	-Moment(f-k)- Calc	Mn/sf
Col-1	1	1.81	8.63	0.00	2.69	0.00	5.02
Col-1	2	1.81	8.63	0.00	2.69	0.00	5.02
Col-1	3	1.81	8.63	0.00	2.69	0.00	5.02
Col-1	4	1.81	8.63	0.00	2.69	0.00	5.02
Col-1	5	0.47	8.63	-0.47	2.69	1.29	3.97
Col-1	6	0.85	8.63	-0.47	2.69	1.29	3.97
Col-1	7	0.47	8.63	-0.47	2.69	1.29	3.97
Col-1	8	0.47	8.63	-0.47	2.69	1.29	3.97
Col-1	9	0.47	8.63	-0.47	2.69	1.29	3.97
Col-1	10	0.85	8.63	-0.47	2.69	1.29	3.97
Col-1	11	0.85	8.63	-0.47	2.69	1.29	3.97
Col-1	12	0.85	8.63	-0.47	2.69	1.29	3.97
Col-1	13	-0.92	29.01	0.56	2.69	-1.54	3.97
Col-1	14	-0.49	29.01	0.56	2.69	-1.54	3.97
Col-1	15	-0.92	29.01	-0.63	2.69	1.72	3.97
Col-1	16	-0.49	29.01	-0.63	2.69	1.72	3.97
Col-1	17	-1.14	29.01	-0.63	2.69	1.72	3.97
Col-1	18	-0.64	29.01	-0.63	2.69	1.72	3.97
Col-1	19	-1.14	29.01	-0.63	2.69	1.72	3.97
Col-1	20	-0.64	29.01	-0.63	2.69	1.72	3.97
Col-1	21	0.24	8.63	0.00	2.69	0.00	5.02
Col-1	22	0.24	8.63	0.00	2.69	0.00	5.02

Col-1	23	1.42	8.63	0.00	2.69	0.00	5.02
Col-1	24	1.43	8.63	0.00	2.69	0.00	5.02
Col-1	25	0.23	8.63	0.00	2.69	0.00	5.02
Col-1	26	0.24	8.63	0.00	2.69	0.00	5.02
Col-1	27	0.13	8.63	0.00	2.69	0.00	5.02
Col-1	28	0.14	8.63	0.00	2.69	0.00	5.02
Col-2	1	3.33	8.55	0.00	2.69	0.00	5.02
Col-2	2	3.33	8.55	0.00	2.69	0.00	5.02
Col-2	3	3.33	8.55	0.00	2.69	0.00	5.02
Col-2	4	3.33	8.55	0.00	2.69	0.00	5.02
Col-2	5	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	6	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	7	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	8	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	9	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	10	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	11	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	12	1.21	8.55	-0.93	2.69	2.84	3.97
Col-2	13	-1.68	29.01	1.14	2.69	-3.47	3.97
Col-2	14	-0.90	29.01	1.14	2.69	-3.47	3.97
Col-2	15	-1.68	29.01	-1.25	2.69	3.79	3.97
Col-2	16	-0.90	29.01	-1.25	2.69	3.79	3.97
Col-2	17	-1.63	29.01	-1.25	2.69	3.79	3.97
Col-2	18	-1.63	29.01	-1.25	2.69	3.79	3.97
Col-2	19	-1.63	29.01	-1.25	2.69	3.79	3.97
Col-2	20	-1.63	29.01	-1.25	2.69	3.79	3.97
Col-2	21	0.40	8.55	0.00	2.69	0.00	5.02
Col-2	22	0.40	8.55	0.00	2.69	0.00	5.02
Col-2	23	2.60	8.55	0.00	2.69	0.00	5.02
Col-2	24	2.60	8.55	0.00	2.69	0.00	5.02
Col-2	25	0.40	8.55	0.00	2.69	0.00	5.02
Col-2	26	0.40	8.55	0.00	2.69	0.00	5.02
Col-2	27	0.22	8.55	0.00	2.69	0.00	5.02
Col-2	28	0.22	8.55	0.00	2.69	0.00	5.02
Col-3	1	1.81	8.63	0.00	2.69	0.00	5.02
Col-3	2	1.81	8.63	0.00	2.69	0.00	5.02
Col-3	3	1.81	8.63	0.00	2.69	0.00	5.02
Col-3	4	1.81	8.63	0.00	2.69	0.00	5.02
Col-3	5	0.85	8.63	-0.47	2.69	1.29	3.97
Col-3	6	0.47	8.63	-0.47	2.69	1.29	3.97
Col-3	7	0.85	8.63	-0.47	2.69	1.29	3.97
Col-3	8	0.85	8.63	-0.47	2.69	1.29	3.97
Col-3	9	0.85	8.63	-0.47	2.69	1.29	3.97
Col-3	10	0.47	8.63	-0.47	2.69	1.29	3.97
Col-3	11	0.47	8.63	-0.47	2.69	1.29	3.97
Col-3	12	0.47	8.63	-0.47	2.69	1.29	3.97
Col-3	13	-0.92	29.01	0.56	2.69	-1.54	3.97
Col-3	14	-0.49	29.01	0.56	2.69	-1.54	3.97
Col-3	15	-0.92	29.01	-0.63	2.69	1.72	3.97
Col-3	16	-0.49	29.01	-0.63	2.69	1.72	3.97
Col-3	17	-0.64	29.01	-0.63	2.69	1.72	3.97
Col-3	18	-1.14	29.01	-0.63	2.69	1.72	3.97
Col-3	19	-0.64	29.01	-0.63	2.69	1.72	3.97
Col-3	20	-1.14	29.01	-0.63	2.69	1.72	3.97
Col-3	21	0.24	8.63	0.00	2.69	0.00	5.02
Col-3	22	0.24	8.63	0.00	2.69	0.00	5.02
Col-3	23	1.43	8.63	0.00	2.69	0.00	5.02
Col-3	24	1.42	8.63	0.00	2.69	0.00	5.02

Col-3	25	0.24	8.63	0.00	2.69	0.00	5.02
Col-3	26	0.23	8.63	0.00	2.69	0.00	5.02
Col-3	27	0.14	8.63	0.00	2.69	0.00	5.02
Col-3	28	0.13	8.63	0.00	2.69	0.00	5.02
Raf-1	1	0.14	17.72	1.63	4.12	-5.85	9.25
Raf-1	2	0.14	17.72	1.63	4.12	-5.85	9.25
Raf-1	3	0.14	17.72	1.63	4.12	-5.85	9.25
Raf-1	4	0.14	17.72	1.63	4.12	-5.85	9.25
Raf-1	5	-0.03	46.52	-1.06	4.12	3.78	4.62
Raf-1	6	-0.07	46.52	-0.58	4.12	2.09	4.62
Raf-1	7	0.02	17.72	-0.66	4.12	2.37	4.62
Raf-1	8	-0.04	46.52	-0.19	4.12	0.68	4.62
Raf-1	9	-0.09	46.52	-1.10	4.12	3.46	4.63
Raf-1	10	-0.10	46.52	-0.85	4.12	3.03	4.62
Raf-1	11	0.01	17.72	-0.15	4.12	0.24	4.61
Raf-1	12	0.01	17.72	0.11	4.12	-0.38	9.25
Raf-1	13	0.05	17.72	0.18	4.12	-0.65	9.25
Raf-1	14	0.14	17.72	0.18	4.12	-0.63	9.25
Raf-1	15	0.11	17.72	1.27	4.12	-4.55	9.25
Raf-1	16	0.20	17.72	1.27	4.12	-4.54	9.25
Raf-1	17	0.03	17.72	0.18	4.12	-0.65	9.25
Raf-1	18	0.11	17.72	0.18	4.12	-0.63	9.25
Raf-1	19	0.05	17.72	0.11	4.12	-0.39	9.25
Raf-1	20	0.13	17.72	0.11	4.12	-0.38	9.25
Raf-1	21	0.14	17.72	1.63	4.12	-5.85	9.25
Raf-1	22	0.08	17.72	0.91	4.12	-3.24	9.25
Raf-2	1	0.14	17.72	-1.63	4.12	-5.85	9.25
Raf-2	2	0.14	17.72	-1.63	4.12	-5.85	9.25
Raf-2	3	0.14	17.72	-1.63	4.12	-5.85	9.25
Raf-2	4	0.14	17.72	-1.63	4.12	-5.85	9.25
Raf-2	5	-0.07	46.52	0.58	4.12	2.09	4.62
Raf-2	6	-0.03	46.52	1.06	4.12	3.78	4.62
Raf-2	7	-0.04	46.52	0.19	4.12	0.68	4.62
Raf-2	8	0.02	17.72	0.66	4.12	2.37	4.62
Raf-2	9	-0.10	46.52	0.85	4.12	3.03	4.62
Raf-2	10	-0.09	46.52	1.10	4.12	3.46	4.63
Raf-2	11	0.01	17.72	-0.11	4.12	-0.38	9.25
Raf-2	12	0.01	17.72	0.15	4.12	0.24	4.68
Raf-2	13	0.14	17.72	-0.18	4.12	-0.63	9.25
Raf-2	14	0.05	17.72	-0.18	4.12	-0.65	9.25
Raf-2	15	0.20	17.72	-1.27	4.12	-4.54	9.25
Raf-2	16	0.11	17.72	-1.27	4.12	-4.55	9.25
Raf-2	17	0.11	17.72	-0.18	4.12	-0.63	9.25
Raf-2	18	0.03	17.72	-0.18	4.12	-0.65	9.25
Raf-2	19	0.13	17.72	-0.11	4.12	-0.38	9.25
Raf-2	20	0.05	17.72	-0.11	4.12	-0.39	9.25
Raf-2	21	0.08	17.72	-0.91	4.12	-3.24	9.25
Raf-2	22	0.14	17.72	-1.63	4.12	-5.85	9.25

STRESS RATIO:

Mem Id	Load Id	Axial	Shear	Moment	Axl+Mom	Shr+Mom	Control UC
Col-1	1	0.21	0.00	0.00	0.21		0.21
Col-1	2	0.21	0.00	0.00	0.21		0.21
Col-1	3	0.21	0.00	0.00	0.21		0.21
Col-1	4	0.21	0.00	0.00	0.21		0.21

Col-1	5	0.05	0.18	0.33	0.38	0.21	0.38
Col-1	6	0.10	0.18	0.33	0.42	0.21	0.42
Col-1	7	0.05	0.18	0.33	0.38	0.21	0.38
Col-1	8	0.05	0.18	0.33	0.38	0.21	0.38
Col-1	9	0.05	0.18	0.33	0.38	0.21	0.38
Col-1	10	0.10	0.18	0.33	0.42	0.21	0.42
Col-1	11	0.10	0.18	0.33	0.42	0.21	0.42
Col-1	12	0.10	0.18	0.33	0.42	0.21	0.42
Col-1	13	0.03	0.21	0.39	0.36	0.25	0.36
Col-1	14	0.02	0.21	0.39	0.37	0.25	0.37
Col-1	15	0.03	0.23	0.43	0.40	0.28	0.40
Col-1	16	0.02	0.23	0.43	0.42	0.28	0.42
Col-1	17	0.04	0.23	0.43	0.39	0.28	0.39
Col-1	18	0.02	0.23	0.43	0.41	0.28	0.41
Col-1	19	0.04	0.23	0.43	0.39	0.28	0.39
Col-1	20	0.02	0.23	0.43	0.41	0.28	0.41
Col-1	21	0.03	0.00	0.00	0.03		0.03
Col-1	22	0.03	0.00	0.00	0.03		0.03
Col-1	23	0.16	0.00	0.00	0.16		0.16
Col-1	24	0.17	0.00	0.00	0.17		0.17
Col-1	25	0.03	0.00	0.00	0.03		0.03
Col-1	26	0.03	0.00	0.00	0.03		0.03
Col-1	27	0.02	0.00	0.00	0.02		0.02
Col-1	28	0.02	0.00	0.00	0.02		0.02
Col-2	1	0.39	0.00	0.00	0.39		0.39
Col-2	2	0.39	0.00	0.00	0.39		0.39
Col-2	3	0.39	0.00	0.00	0.39		0.39
Col-2	4	0.39	0.00	0.00	0.39		0.39
Col-2	5	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	6	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	7	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	8	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	9	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	10	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	11	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	12	0.14	0.35	0.72	0.85	0.46	0.85
Col-2	13	0.06	0.42	0.87	0.82	0.56	0.82
Col-2	14	0.03	0.42	0.87	0.84	0.56	0.84
Col-2	15	0.06	0.46	0.95	0.90	0.61	0.90
Col-2	16	0.03	0.46	0.95	0.92	0.61	0.92
Col-2	17	0.06	0.46	0.95	0.90	0.61	0.90
Col-2	18	0.06	0.46	0.95	0.90	0.61	0.90
Col-2	19	0.06	0.46	0.95	0.90	0.61	0.90
Col-2	20	0.06	0.46	0.95	0.90	0.61	0.90
Col-2	21	0.05	0.00	0.00	0.05		0.05
Col-2	22	0.05	0.00	0.00	0.05		0.05
Col-2	23	0.30	0.00	0.00	0.30		0.30
Col-2	24	0.30	0.00	0.00	0.30		0.30
Col-2	25	0.05	0.00	0.00	0.05		0.05
Col-2	26	0.05	0.00	0.00	0.05		0.05
Col-2	27	0.03	0.00	0.00	0.03		0.03
Col-2	28	0.03	0.00	0.00	0.03		0.03
Col-3	1	0.21	0.00	0.00	0.21		0.21
Col-3	2	0.21	0.00	0.00	0.21		0.21
Col-3	3	0.21	0.00	0.00	0.21		0.21
Col-3	4	0.21	0.00	0.00	0.21		0.21
Col-3	5	0.10	0.18	0.33	0.42	0.21	0.42
Col-3	6	0.05	0.18	0.33	0.38	0.21	0.38

Col-3	7	0.10	0.18	0.33	0.42	0.21	0.42
Col-3	8	0.10	0.18	0.33	0.42	0.21	0.42
Col-3	9	0.10	0.18	0.33	0.42	0.21	0.42
Col-3	10	0.05	0.18	0.33	0.38	0.21	0.38
Col-3	11	0.05	0.18	0.33	0.38	0.21	0.38
Col-3	12	0.05	0.18	0.33	0.38	0.21	0.38
Col-3	13	0.03	0.21	0.39	0.36	0.25	0.36
Col-3	14	0.02	0.21	0.39	0.37	0.25	0.37
Col-3	15	0.03	0.23	0.43	0.40	0.28	0.40
Col-3	16	0.02	0.23	0.43	0.42	0.28	0.42
Col-3	17	0.02	0.23	0.43	0.41	0.28	0.41
Col-3	18	0.04	0.23	0.43	0.39	0.28	0.39
Col-3	19	0.02	0.23	0.43	0.41	0.28	0.41
Col-3	20	0.04	0.23	0.43	0.39	0.28	0.39
Col-3	21	0.03	0.00	0.00	0.03		0.03
Col-3	22	0.03	0.00	0.00	0.03		0.03
Col-3	23	0.17	0.00	0.00	0.17		0.17
Col-3	24	0.16	0.00	0.00	0.16		0.16
Col-3	25	0.03	0.00	0.00	0.03		0.03
Col-3	26	0.03	0.00	0.00	0.03		0.03
Col-3	27	0.02	0.00	0.00	0.02		0.02
Col-3	28	0.02	0.00	0.00	0.02		0.02
Raf-1	1	0.01	0.40	0.63	0.63	0.51	0.63
Raf-1	2	0.01	0.40	0.63	0.63	0.51	0.63
Raf-1	3	0.01	0.40	0.63	0.63	0.51	0.63
Raf-1	4	0.01	0.40	0.63	0.63	0.51	0.63
Raf-1	5	0.00	0.26	0.82	0.82	0.33	0.82
Raf-1	6	0.00	0.14	0.45	0.45	0.18	0.45
Raf-1	7	0.00	0.16	0.51	0.44	0.21	0.44
Raf-1	8	0.00	0.05	0.15	0.15	0.06	0.15
Raf-1	9	0.00	0.27	0.75	0.75	0.32	0.75
Raf-1	10	0.00	0.21	0.66	0.65	0.27	0.65
Raf-1	11	0.00	0.04	0.05	0.05		0.05
Raf-1	12	0.00	0.03	0.04	0.04	0.03	0.04
Raf-1	13	0.00	0.04	0.07	0.07	0.06	0.07
Raf-1	14	0.01	0.04	0.07	0.06	0.06	0.06
Raf-1	15	0.01	0.31	0.49	0.49	0.40	0.49
Raf-1	16	0.01	0.31	0.49	0.49	0.40	0.49
Raf-1	17	0.00	0.04	0.07	0.07	0.06	0.07
Raf-1	18	0.01	0.04	0.07	0.06	0.06	0.06
Raf-1	19	0.00	0.03	0.04	0.04	0.03	0.04
Raf-1	20	0.01	0.03	0.04	0.04	0.03	0.04
Raf-1	21	0.01	0.40	0.63	0.63	0.51	0.63
Raf-1	22	0.00	0.22	0.35	0.35	0.29	0.35
Raf-2	1	0.01	0.40	0.63	0.63	0.51	0.63
Raf-2	2	0.01	0.40	0.63	0.63	0.51	0.63
Raf-2	3	0.01	0.40	0.63	0.63	0.51	0.63
Raf-2	4	0.01	0.40	0.63	0.63	0.51	0.63
Raf-2	5	0.00	0.14	0.45	0.45	0.18	0.45
Raf-2	6	0.00	0.26	0.82	0.82	0.33	0.82
Raf-2	7	0.00	0.05	0.15	0.15	0.06	0.15
Raf-2	8	0.00	0.16	0.51	0.44	0.21	0.44
Raf-2	9	0.00	0.21	0.66	0.65	0.27	0.65
Raf-2	10	0.00	0.27	0.75	0.75	0.32	0.75
Raf-2	11	0.00	0.03	0.04	0.04	0.03	0.04
Raf-2	12	0.00	0.04	0.05	0.04		0.04
Raf-2	13	0.01	0.04	0.07	0.06	0.06	0.06

Raf-2	14	0.00	0.04	0.07	0.07	0.06	0.07
Raf-2	15	0.01	0.31	0.49	0.49	0.40	0.49
Raf-2	16	0.01	0.31	0.49	0.49	0.40	0.49
Raf-2	17	0.01	0.04	0.07	0.06	0.06	0.06
Raf-2	18	0.00	0.04	0.07	0.07	0.06	0.07
Raf-2	19	0.01	0.03	0.04	0.04	0.03	0.04
Raf-2	20	0.00	0.03	0.04	0.04	0.03	0.04
Raf-2	21	0.00	0.22	0.35	0.35	0.29	0.35
Raf-2	22	0.01	0.40	0.63	0.63	0.51	0.63

COLUMN REACTIONS:

Mem Id	Load Id	Reaction(k) Horz(OP)	Vert	Horz(IP)
Col-1	1	0.00	1.81	0.00
Col-1	2	0.00	1.81	0.00
Col-1	3	0.00	1.81	0.00
Col-1	4	0.00	1.81	0.00
Col-1	5	0.47	0.47	0.00
Col-1	6	0.47	0.85	0.00
Col-1	7	0.47	0.47	0.00
Col-1	8	0.47	0.47	0.00
Col-1	9	0.47	0.47	0.00
Col-1	10	0.47	0.85	0.00
Col-1	11	0.47	0.85	0.00
Col-1	12	0.47	0.85	0.00
Col-1	13	-0.56	-0.90	0.00
Col-1	14	-0.56	-0.47	0.00
Col-1	15	0.63	-0.90	0.00
Col-1	16	0.63	-0.47	0.00
Col-1	17	0.63	-1.13	0.00
Col-1	18	0.63	-0.62	0.00
Col-1	19	0.63	-1.13	0.00
Col-1	20	0.63	-0.62	0.00
Col-1	21	0.00	0.24	0.00
Col-1	22	0.00	0.24	0.00
Col-1	23	0.00	1.42	0.00
Col-1	24	0.00	1.43	0.00
Col-1	25	0.00	0.23	0.00
Col-1	26	0.00	0.24	0.00
Col-1	27	0.00	0.13	0.00
Col-1	28	0.00	0.14	0.00
Col-2	1	0.00	3.33	0.00
Col-2	2	0.00	3.33	0.00
Col-2	3	0.00	3.33	0.00
Col-2	4	0.00	3.33	0.00
Col-2	5	0.93	1.21	0.00
Col-2	6	0.93	1.21	0.00
Col-2	7	0.93	1.21	0.00
Col-2	8	0.93	1.21	0.00
Col-2	9	0.93	1.21	0.00
Col-2	10	0.93	1.21	0.00
Col-2	11	0.93	1.21	0.00
Col-2	12	0.93	1.21	0.00
Col-2	13	-1.14	-1.66	0.00
Col-2	14	-1.14	-0.88	0.00

Col-2	15	1.25	-1.66	0.00
Col-2	16	1.25	-0.88	0.00
Col-2	17	1.25	-1.61	0.00
Col-2	18	1.25	-1.61	0.00
Col-2	19	1.25	-1.61	0.00
Col-2	20	1.25	-1.61	0.00
Col-2	21	0.00	0.40	0.00
Col-2	22	0.00	0.40	0.00
Col-2	23	0.00	2.60	0.00
Col-2	24	0.00	2.60	0.00
Col-2	25	0.00	0.40	0.00
Col-2	26	0.00	0.40	0.00
Col-2	27	0.00	0.22	0.00
Col-2	28	0.00	0.22	0.00
Col-3	1	0.00	1.81	0.00
Col-3	2	0.00	1.81	0.00
Col-3	3	0.00	1.81	0.00
Col-3	4	0.00	1.81	0.00
Col-3	5	0.47	0.85	0.00
Col-3	6	0.47	0.47	0.00
Col-3	7	0.47	0.85	0.00
Col-3	8	0.47	0.85	0.00
Col-3	9	0.47	0.85	0.00
Col-3	10	0.47	0.47	0.00
Col-3	11	0.47	0.47	0.00
Col-3	12	0.47	0.47	0.00
Col-3	13	-0.56	-0.90	0.00
Col-3	14	-0.56	-0.47	0.00
Col-3	15	0.63	-0.90	0.00
Col-3	16	0.63	-0.47	0.00
Col-3	17	0.63	-0.62	0.00
Col-3	18	0.63	-1.13	0.00
Col-3	19	0.63	-0.62	0.00
Col-3	20	0.63	-1.13	0.00
Col-3	21	0.00	0.24	0.00
Col-3	22	0.00	0.24	0.00
Col-3	23	0.00	1.43	0.00
Col-3	24	0.00	1.42	0.00
Col-3	25	0.00	0.24	0.00
Col-3	26	0.00	0.23	0.00
Col-3	27	0.00	0.14	0.00
Col-3	28	0.00	0.13	0.00

COLUMN MEMBER DEFLECTIONS:

Mem Id	Load Id	Deflection(in) Calc	Allow
Col-1	1	0.00	0.73
Col-1	2	0.00	0.73
Col-1	3	0.00	0.73
Col-1	4	0.00	0.73
Col-1	5	0.08	0.73
Col-1	6	0.08	0.73
Col-1	7	0.08	0.73
Col-1	8	0.08	0.73
Col-1	9	0.08	0.73
Col-1	10	0.08	0.73

Col-1	11	0.08	0.73
Col-1	12	0.08	0.73
Col-1	13	-0.10	0.73
Col-1	14	-0.10	0.73
Col-1	15	0.11	0.73
Col-1	16	0.11	0.73
Col-1	17	0.11	0.73
Col-1	18	0.11	0.73
Col-1	19	0.11	0.73
Col-1	20	0.11	0.73
Col-1	21	0.00	0.73
Col-1	22	0.00	0.73
Col-1	23	0.00	0.73
Col-1	24	0.00	0.73
Col-1	25	0.00	0.73
Col-1	26	0.00	0.73
Col-1	27	0.00	0.73
Col-1	28	0.00	0.73
Col-2	1	0.00	0.81
Col-2	2	0.00	0.81
Col-2	3	0.00	0.81
Col-2	4	0.00	0.81
Col-2	5	0.23	0.81
Col-2	6	0.23	0.81
Col-2	7	0.23	0.81
Col-2	8	0.23	0.81
Col-2	9	0.23	0.81
Col-2	10	0.23	0.81
Col-2	11	0.23	0.81
Col-2	12	0.23	0.81
Col-2	13	-0.28	0.81
Col-2	14	-0.28	0.81
Col-2	15	0.30	0.81
Col-2	16	0.30	0.81
Col-2	17	0.30	0.81
Col-2	18	0.30	0.81
Col-2	19	0.30	0.81
Col-2	20	0.30	0.81
Col-2	21	0.00	0.81
Col-2	22	0.00	0.81
Col-2	23	0.00	0.81
Col-2	24	0.00	0.81
Col-2	25	0.00	0.81
Col-2	26	0.00	0.81
Col-2	27	0.00	0.81
Col-2	28	0.00	0.81
Col-3	1	0.00	0.73
Col-3	2	0.00	0.73
Col-3	3	0.00	0.73
Col-3	4	0.00	0.73
Col-3	5	0.08	0.73
Col-3	6	0.08	0.73
Col-3	7	0.08	0.73
Col-3	8	0.08	0.73
Col-3	9	0.08	0.73
Col-3	10	0.08	0.73
Col-3	11	0.08	0.73
Col-3	12	0.08	0.73

Col-3	13	-0.10	0.73
Col-3	14	-0.10	0.73
Col-3	15	0.11	0.73
Col-3	16	0.11	0.73
Col-3	17	0.11	0.73
Col-3	18	0.11	0.73
Col-3	19	0.11	0.73
Col-3	20	0.11	0.73
Col-3	21	0.00	0.73
Col-3	22	0.00	0.73
Col-3	23	0.00	0.73
Col-3	24	0.00	0.73
Col-3	25	0.00	0.73
Col-3	26	0.00	0.73
Col-3	27	0.00	0.73
Col-3	28	0.00	0.73

RAFTER MEMBER DEFLECTIONS:

Mem Id	Load Id	Deflection(in) Calc	Allow
Raf-1	1	-0.36	1.00
Raf-1	2	-0.36	1.00
Raf-1	3	-0.36	1.00
Raf-1	4	-0.36	1.00
Raf-1	5	0.16	1.00
Raf-1	6	0.08	1.00
Raf-1	7	0.09	1.00
Raf-1	8	0.02	1.00
Raf-1	9	0.14	1.00
Raf-1	10	0.12	1.00
Raf-1	11	0.00	1.00
Raf-1	12	-0.02	1.00
Raf-1	13	-0.04	1.00
Raf-1	14	-0.04	1.00
Raf-1	15	-0.28	1.00
Raf-1	16	-0.28	1.00
Raf-1	17	-0.04	1.00
Raf-1	18	-0.04	1.00
Raf-1	19	-0.02	1.00
Raf-1	20	-0.02	1.00
Raf-1	21	-0.36	1.00
Raf-1	22	-0.20	1.00
Raf-2	1	-0.36	1.00
Raf-2	2	-0.36	1.00
Raf-2	3	-0.36	1.00
Raf-2	4	-0.36	1.00
Raf-2	5	0.08	1.00
Raf-2	6	0.16	1.00
Raf-2	7	0.02	1.00
Raf-2	8	0.09	1.00
Raf-2	9	0.12	1.00
Raf-2	10	0.14	1.00
Raf-2	11	-0.02	1.00
Raf-2	12	0.00	1.00
Raf-2	13	-0.04	1.00
Raf-2	14	-0.04	1.00

Raf-2	15	-0.28	1.00
Raf-2	16	-0.28	1.00
Raf-2	17	-0.04	1.00
Raf-2	18	-0.04	1.00
Raf-2	19	-0.02	1.00
Raf-2	20	-0.02	1.00
Raf-2	21	-0.20	1.00
Raf-2	22	-0.36	1.00

M11013 Rafter Splice Report 2/ 7/12 3:55pm

Splice Id	Typ	-Surface- Id	Locate	---Plate--- Width	Thick	-----Design_Load---- Id	Axl	Shr	Mom	----Bolts(A325)---- Row	Diam	Space	Gage
1	S	3	0.0		0.250	22	0.1	1.6	0.0	2	0.500	4.00	11.8

LOAD COMBINATIONS:

22 - DL+CL+SL/2+E2PAT_LL_2

M11013 Base Plate & Anchor Bolt Design 2/ 7/12 3:55pm

Base Plate Yield = 50.00 (ksi)
Concrete Bearing = 1.05 (ksi)

BASE SIZE:

Column_Base Id	Depth	--Plate_Size(in)-- Width	Length	Thick	-Bolts(A307)- Row	Diam	Gage
Col-1	8.0				1	0.500	4.00
Col-2	8.0				1	0.500	4.00
Col-3	8.0				1	0.500	4.00

BASE REACTIONS:

Column Id	-Max_Comp- Ld	Fy(k)	-Max_Tens- Ld	Fy(k)	-Max_Shear Ld	Fx(k)	Max_Tension+Shear Tens Ld	Fy(k)	Shear Fx(k)
Col-1	1	1.8	17	-1.1	15	0.6	17	-1.1	0.6
Col-2	1	3.3	13	-1.7	15	1.2	15	-1.7	1.2
Col-3	1	1.8	18	-1.1	15	0.6	18	-1.1	0.6

LOAD COMBINATIONS:

1 - DL+CL+LL
13 - 0.6DL+WP+LW1
15 - 0.6DL+WS+LW1
17 - 0.6DL+WL1+WS
18 - 0.6DL+WR1+WS

M11013 Flush Girt Design Report 2/ 7/12 3:55pm

GIRT LOCATION:

Bay Id	No. Girt	Girt Id 1
1	1	7.333
2	1	7.333

GIRT SPAN:

Bay Id	No. Girt	Girt Id 1
1	1	13.458
2	1	13.458

GIRT SIZE:

Bay Id	No. Girt	Girt Id 1
1	1	8X25Z16
2	1	8X25Z16

GIRT INSIDE FLANGE BRACE:

No. Brace/Bay 1	2
0	0

GIRT ACTIONS:

Bay Id	Girt Id	Ld Id	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+ Shear	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC	Unbraced- Minor	Unbraced- Cb
1	1	WP	0.54	2.69	0.20	-1.83	5.21	0.35	0.28	-0.18	1.79	0.10	0.0	1.00
		WS	-0.60	2.69	0.22	2.01	3.38	0.59	0.31	0.20	1.79	0.11	13.5	1.00
2	1	WP	0.54	2.69	0.20	-1.83	5.21	0.35	0.28	-0.18	1.79	0.10	0.0	1.00
		WS	0.60	2.69	0.22	2.01	3.38	0.59	0.31	0.20	1.79	0.11	13.5	1.00

M11013 Endwall Diagonal Bracing Summary 2/ 7/12 3:55pm

PANEL SHEAR WITH NO BRACING:

Base Length	--Transverse-- Wind	Seismic	----Torsion--- Wind	Seismic	Allow
30.00	38.1	6.0	0.0	0.0	75.0

BRACING NOT REQUIRED

M11013 Wall Panel Report 2/ 7/12 3:55pm

PANEL DATA:

Bay	Part	Type	Gage	Yield	Rotation Stiffness	Panel Height
1	26 PBR	PBR	26.00	80.0	0.00	12.36

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Mn/sf	Support UC	Midspan Calc	Midspan Mn/sf	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC
1	7.33	WP	85.4	130.8	0.65	-70.4	116.1	0.61	-0.32	0.98	0.33
		WS	-113.4	116.1	0.98	93.4	130.8	0.71	0.42	0.98	0.43
2	5.03	WP	85.4	130.8	0.65	-17.4	116.1	0.15	0.00	0.67	0.00
		WS	-113.4	116.1	0.98	23.1	130.8	0.18	0.00	0.67	0.00

```
*=============================================================================
*M11013              Rigid Frame Design Input Echo              2/ 7/12  3:55pm
*=============================================================================

*( 1)JOBID:
    'M11013                                    '

*( 2)DESIGN OPTIONS:
*Frame  Frame  Stress  Frame  No_Of  End_Conn  Splice  Web_Stiffener
* Id    Type    Space  Space  Cycle  Lt   Rt     Fix  Use Ratio Side  P-Delta
   1    'RF '    5.00  25.00    7   'P ' 'P '   1.00  'N'  0.00 'Y '    'EL'

*( 3)OPTIMIZATION OPTIONS:
*Plate  Depth  Frame  L_Col_Dep_Opt(in)  R_Col_Dep_Opt(in)  Rafter_Dep_Opt(in)
* Opt    Opt    Sym   Typ    Min    Max  Typ    Min    Max   Typ    Min    Max
  'N'    'N'    'Y'   'R ' 12.00  18.00 'R ' 12.00  18.00   'R ' 10.00  58.00

*( 4)DESIGN CODE:
*Design  ---Steel_Code---              ---Build---   Code      Seismic
* Code   Cold       Hot       Country  Code   Year   Label     Zone
  'WS ' 'NAUS01  ' 'AISC05'  '----'  'IBC '  '06'  'IBC  06 '  'C  '

*( 5)DESIGN CONSTANTS:
*                        ---Strength_Factor---
* ----Stress_Ratio----           ---Seismic---
* Frame  Col   EP   BP     Wind   Frame  SpcEP
   1.00 1.00 1.00 1.00   1.0000  1.0000 1.0000

*( 6)STEEL YIELDS:
* Web   Flg  C_Sec  W_Sec  R_Sec  P_Sec  T_Sec  U_Sec    EP     BP
 36.0  50.0   57.0   50.0   50.0   35.0   46.0   50.0  50.0   50.0

*( 7)DEFLECTION LIMITS:
* --Vertical--  -------Horizontal-------   Weak
*  Live  Total  Total  Seis  Crane Floor   Axis
  180.0   0.0   60.0   0.0    0.0   0.0   60.0

*( 8)REPORTS:
* Input Design   End  Base  Revise Action Sec  Flange Segment Unbrc Floor Cable
* Echo  Summary Plate Plate Input  Stress Prop Brace  Displ.   Len  React React
  'Y'   'Y'     'Y'   'Y'   'Y'    'Y'    'N'  'N'     'N'     'N'  'N'   'N'

*( 9)SURFACE SHAPE:
* No.    X_Coord   Y_Coord  Offset
*Surf      (ft)      (ft)    (in)
   4      0.0000   12.0000  8.000
         15.0000   13.2500  8.000
         30.0000   12.0000  8.000
         30.0000    0.0000  8.000


*(10)MEMBER DEPTHS:
*Surf    Depth(in)      No.   Interior_Depth
* Id    Start     End  Dep   Loc(ft)   Depth(in)
   1   11.500  11.500   0
   2   11.400  11.400   0
   3   11.400  11.400   0
   4   11.500  11.500   0
```

```
*(11)MEMBER SPLICES:
*Surf     No.     Splice Splice
* Id    Splice  Loc(ft)  Type
    1       0
    2       1     0.0000  'VEE '
    3       1     0.0000  '-EE '
    4       1     0.0000  'VEE '

*(12)SEGMENT PLATES:
*No. Surf Mem Seg       Seg     Member       Flange      Plate_Thickness(in)
*Seg  Id   Id  Id    Len(ft)    Part       Width(in)     Web  OS_Flg  IS_Flg
   4   1    1   1    0.0000   'W12X16  '     3.990  0.2200  0.2650  0.2650
       2    2   2    0.0000   'W12X14  '     3.970  0.1880  0.2250  0.2250
       3    3   3    0.0000   'W12X14  '     3.970  0.1880  0.2250  0.2250
       4    4   4    0.0000   'W12X16  '     3.990  0.2200  0.2650  0.2650

*(13)INTERIOR COLUMNS:
* No.  Col  Col  Col     Col    Connection  Rafter  Unbrace_Length  Col  Col
* Col   Id  Typ  Rot     Loc    Bot    Top   Opt    Major    Minor  Set  Size
   0
*(14)TAPERED INTERIOR COLUMNS:
*Col  Col  ---Depth----  No.  Start  --Web_Depth---   Web    Flg  OS_Flg IS_Flg
* Id Shape  Min    Max   Mem  Locate  Start    End   Thick  Width  Thick  Thick

*(15)BASE ELEVATION/WALL OPTIONS:
*Base   Base     Frame     Open
* Id    Elev     Space   Height
   1  0.0000   25.0000   0.0000   Left  Column
   2  0.0000   25.0000   0.0000   Right Column

*(16)BASE DISPLACEMENT:
*Base            Displace
* Id   Opt  Dir     (in)
   0   '-'  '-'    0.000

*(17)BASE SPRINGS:
* No.  Base         --Spring_Constants--
*Base   Id    Elev    Horz   Vert Rotate
   0

*(18)WALL GIRT:
*Surf                                        Bay  No.
* Id  Type  Part       Depth   Proj     Lap  Id Girt  Location(ft)
   1  'ZB' '8X25Z16 '  8.000  0.000  1.0000   2   1   7.3333
   4  'ZB' '8X25Z16 '  8.000  0.000  1.0000   2   1   7.3333

*(19)ROOF PURLIN:
*Surf                                          No.      Peak Set_Of  -Set_Space
* Id  Type  Part       Depth   Proj     Lap  Purlin    Space  Space   Space    No.
   2  'ZB' '8X25Z16 '  8.000  0.000  2.0000    3     1.0000     1   5.0000     3
   3  'ZB' '8X25Z16 '  8.000  0.000  2.0000    3     1.0000     1   5.0000     3
*(20)FLANGE BRACE:
*Surf  No.   Flange_Brace_At
* Id  Brace  Girt/Purlin Number
   1     1      1
   2     2      1   3
   3     2      1   3
   4     1      1
```

*(21)SIDEWALL EXTENSIONS:

*Surf Id	No Ext	Ext Id	Extension_Size Type	Elev	Width	Slope	Facia_Size Elev	Height	Slope	Load Width
1	0									
4	0									

*(22)EXTENSION LOADS:

*Ext Id	Dead psf	Collat psf	Live psf	Snow psf	Wind1_Coeff Left	Wind1_Coeff Right	Wind2_Coeff Left	Wind2_Coeff Right	Long_Wind 1	Long_Wind 2	Facia_Wind Left	Facia_Wind Right	Seis k

*(23)BASIC LOADS:

* Dead psf	Live psf	Snow psf	Collat psf	Basic Wind psf	---Deflection--- Load_Ratio Snow	Wind	Seis	Temperature Change
2.00	20.00	20.00	0.00	14.98	1.00	0.70	1.00	0.0

*(24)BASIC LOAD AT EAVE:

*Seismic Load k	Weak_Axis_L Wind k	Weak_Axis_L Seis k	Weak_Axis_R Wind k	Weak_Axis_R Seis k	--Torsion-- Wind k	Torsion Seis k	-EW_Brace- Wind k	EW_Brace Seis k
0.19	0.00	0.00	0.00	0.00	1.75	0.92	0.00	0.00

*(25)WIND COEFFICIENT:

*Surf Id	--Wind_1--- Left	Right	--Wind_2--- Left	Right	Long_Wind 1	2	Surface Friction
1	0.25	-0.52	0.65	-0.12	-0.63	-0.27	0.00
2	-0.87	-0.55	-0.51	-0.19	-0.87	-0.51	0.00
3	-0.55	-0.87	-0.19	-0.51	-0.87	-0.51	0.00
4	-0.52	0.25	-0.12	0.65	-0.63	-0.27	0.00

*(26)LONGITUDINAL BRACING LOAD:

*----Wind----- Horz	Vert	---Seismic--- Horz	Vert		
2.33	1.21	0.86	0.45	Left	Column
0.00	0.00	0.00	0.00	Right	Column

*(27)DESIGN LOADS:Strength

*Load No.	Id	Dead	Coll	Roof	Floor	Snow	Drift	Slide	Lt	Rt	Lt	Rt	1	2	Long Tran	Temp	Id	Aux_Load Coeff
54	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	8	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00

```
         9 1.00 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        10 1.00 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        11 1.00 1.00  0.75  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        12 1.00 1.00  0.75  0.00  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        13 1.00 1.00  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        14 1.00 1.00  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00
0.00  0.00   0   0.00
        15 1.00 1.00  0.00  0.00  0.75  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        16 1.00 1.00  0.00  0.00  0.75  0.75  0.00  0.75  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        17 1.00 1.00  0.00  0.00  0.75  0.00  0.75  0.75  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        18 1.00 1.00  0.00  0.00  0.75  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        19 1.00 1.00  0.00  0.00  0.75  0.75  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        20 1.00 1.00  0.00  0.00  0.75  0.00  0.75  0.00  0.75  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        21 1.00 1.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        22 1.00 1.00  0.00  0.00  0.75  0.75  0.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        23 1.00 1.00  0.00  0.00  0.75  0.00  0.75  0.00  0.00  0.75  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        24 1.00 1.00  0.00  0.00  0.75  0.00  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00
0.00  0.00   0   0.00
        25 1.00 1.00  0.00  0.00  0.75  0.75  0.00  0.00  0.00  0.00  0.75  0.00  0.00  0.00
0.00  0.00   0   0.00
        26 1.00 1.00  0.00  0.00  0.75  0.00  0.75  0.00  0.00  0.00  0.75  0.00  0.00  0.00
0.00  0.00   0   0.00
        27 0.60 0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        28 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        29 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        30 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.00
0.00  0.00   0   0.00
        31 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00
0.00  0.00   1   1.00
        32 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00
0.00  0.00   2   1.00
        33 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.00  0.00  0.00
0.00  0.00   1   1.00
        34 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.00  0.00  0.00
0.00  0.00   2   1.00
        35 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00  0.00   3   1.00
        36 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00  0.00   4   1.00
        37 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.00  0.00
0.00  0.00   3   1.00
```

```
        38 0.60 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -1.00  0.00
0.00  0.00   4   1.00
        39 1.03 1.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.70  0.00   0   0.00
        40 1.03 1.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
-0.70 0.00   0   0.00
        41 1.02 1.02  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.52  0.00   0   0.00
        42 1.02 1.02  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
-0.52 0.00   0   0.00
        43 1.02 1.02  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.52  0.00   0   0.00
        44 1.02 1.02  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
-0.52 0.00   0   0.00
        45 0.57 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.70  0.00   0   0.00
        46 0.57 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
-0.70 0.00   0   0.00
        47 1.03 1.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.70
0.00  0.00   0   0.00
        48 1.03 1.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.70
0.00  0.00   0   0.00
        49 1.02 1.02  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.52
0.00  0.00   0   0.00
        50 1.02 1.02  0.75  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.52
0.00  0.00   0   0.00
        51 1.02 1.02  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.52
0.00  0.00   0   0.00
        52 1.02 1.02  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.52
0.00  0.00   0   0.00
        53 0.57 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.70
0.00  0.00   0   0.00
        54 0.57 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 -0.70
0.00  0.00   0   0.00


*(28)DESIGN LOADS:Deflection
*           --------------------Load_Coefficients-------------------
*Load                ---Live---        -Add_Snow-  --Wind_1--  --Wind_2--    Long_Wind  -
Seismic--         Aux_Load
*No.    Id Dead Coll  Roof Floor  Snow Drift Slide    Lt    Rt    Lt    Rt     1     2  Long
Tran  Temp  Id  Coeff
 0

*(29)DESIGN LOADS:Special
*                              --------------------Load_Coefficients-------------------
*Load                                    ---Live---        -Add_Snow-  --Wind_1--  --Wind_2--
Long_Wind  -Seismic--          Aux_Loa
*No.    Id  Use  Code        Dead Coll  Roof Floor  Snow Drift Slide    Lt    Rt    Lt    Rt
1      2  Long  Tran  Temp  Id  Coef
   4    55 'EP' '---------' 1.24 1.24  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00  0.00  3.00  0.00   0   0.0
        56 'EP' '---------' 1.24 1.24  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00  0.00 -3.00  0.00   0   0.0
        57 'EP' '---------' 0.86 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00  0.00  3.00  0.00   0   0.0
        58 'EP' '---------' 0.86 0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00  0.00  0.00 -3.00  0.00   0   0.0
```

*(30)AUXILARY LOAD:

*No. Aux	Aux Id	Aux Name	No. Add Loads	Add Comb Id	Coeff
4	1	'LWIND1_L2E'	1	1	1.00
	2	'LWIND1_R2E'	1	2	1.00
	3	'LWIND2_L2E'	1	1	1.00
	4	'LWIND2_R2E'	1	2	1.00

*(31)ADDITIONAL LOADS:

*No. Add	Add Id	Loc Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	Dx .. Dy .. Conc Dl1 .. Dl2 .. Dist
6	1	2	'U_WIND '	'D '	0.142	0.142	0.00	0.0000 6.0000
	2	3	'U_WIND '	'D '	0.142	0.142	0.00	9.0520 15.0520
	3	2	'WINDL1 '	'D '	-0.120	-0.120	0.00	15.0000 15.0520
	4	2	'WINDL2 '	'D '	-0.120	-0.120	0.00	15.0000 15.0520
	5	3	'WINDR1 '	'D '	-0.120	-0.120	0.00	0.0000 0.0520
	6	3	'WINDR2 '	'D '	-0.120	-0.120	0.00	0.0000 0.0520

*(32)FLOOR BEAMS:

*Bay Id	No. Beam	Beam Id	Beam Ht	Con_Type Lt	Con_Type Rt	Con_Loc Lt	Con_Loc Rt	Beam Properties Area	Beam Properties Ixx
1	0								

*(33)CABLES:

*Bay Id	No. Cable	Cable Id	Cable Level	Cable Type	Cable Area
1	0				

*(34)CRANE BRACKET:

*Crane Load	BayId	Crane	Crane	----Beam----			----Offset----		-----Bracket------		Col_Sup		
*No	Id	Lt	Rt	Type	Height	Depth	Width	Left	Right	Type	Opt	Select	Lt Rt (k)
0													

*(35)FRAME OPTIONS/FRAMELINES:

*Moment Frame	Frame Option	Frame Option_Id	No. Line	Frame_Line_Id
'OMF'	'-'	' '	1	2

STRUCTURAL CODE:
- Design Basis : WS - Working Stress
- Hot Rolled Steel : AISC05
- Cold Formed Steel : NAUS01

BUILDING CODE:
- Wind Code : IBC 06
- Seismic Zone : C

MODULUS OF ELASTICITY
- Hot Rolled Steel : 29000 (ksi)
- Cold Formed Steel : 29500 (ksi)

M11013 Base Plates and Anchor Bolts 2/ 7/12 3:55pm

Base Plate Yield = 50.00 (ksi)
Concrete Bearing = 1.05 (ksi)
Bolt Shear Stress= 12.00 (ksi)

BASE PLATE & BOLT SIZE:

--Column_Base--			--Plate_Size(in)--			--Bolts(A307)-			-Shear(k)-	
Loc.	Typ	Depth	Width	Length	Thick	Row	Dia	Gage	Limit	UC
Left	P	12.0	8.0	12.75	0.375	2	0.750	4.00	21.2	0.13
Right	P	12.0	8.0	12.75	0.375	2	0.750	4.00	21.2	0.13

BASE REACTIONS:

			Max_Tension+Shear					Max_Shear+Tension		
Column	-Max_Comp-			Tens	Shear	-Max_Shear			Shear	Tens
Loc.	Ld	Fy(k)	Ld	Fy(k)	Fx(k)	Ld	Fx(k)	Ld	Fx(k)	Fy(k)
Left	2	8.6	31	-6.9	2.5	1	2.7	29	2.6	-2.5
Right	1	8.6	34	-5.7	1.0	1	2.7	30	2.6	-2.5

WELDS:

	Outside_Flange_To_Base				Inside_Flange_To_Base				-----Web_To_Base-----			
Base			Shear(k/in)				Shear(k/in)				Shear(k/in)	
Id	Size	Typ	Calc	Rn/sf	Size	Typ	Calc	Rn/sf	Size	Typ	Calc	Rn/sf
Left	0.188	F2	0.43	2.78	0.188	F2	0.43	2.78	0.188	F1	0.23	1.86
Right	0.188	F2	0.35	2.78	0.188	F2	0.35	2.78	0.188	F1	0.23	1.86

LOAD COMBINATIONS:

1 - DL+CL+LL
2 - DL+CL+LL
29 - 0.60DL+WL2
30 - 0.60DL+WR2
31 - 0.60DL+LW1+LWIND1_L2E
34 - 0.60DL-LW1+LWIND1_R2E

M11013 Bolted-End-Plates 2/ 7/12 3:55pm

Splice Yield = 50.00 (ksi)

PLATE SIZE:

Splice	Member	Web	Splice(in)			----------Bolts(A325)----------							
Id	Typ	Locate	Depth	Width	Thick	Dia	Gage	Gage2	RowT	SpaceT	RowB	SpaceB	RowI
1	VEE	1- 2	11.40	6.0	0.500	0.750	3.50	3.50	2	3.50	2	3.50	0
2	-EE	2- 3	11.44	6.0	0.375	0.750	3.50	3.50	2	3.50	2	3.50	0
3	VEE	3- 4	11.40	6.0	0.500	0.750	3.50	3.50	2	3.50	2	3.50	0

PLATE DESIGN:

Splice Id	Ten Typ	Loc	Max_Moment Load Id	Max_Moment Axial (k)	Max_Moment Shear (k)	Max_Moment Moment (f-k)	Max_Shear Load Id	Max_Shear Axial (k)	Max_Shear Shear (k)	Max_Shear Moment (f-k)	Req Thick	Req Dia	Bolt UC
1	VEE	Top	2	2.7	7.6	26.6	2	2.7	7.6	26.6	0.394	0.469	0.39
		Bot	32	-3.0	-4.6	-23.1	31	-3.0	-5.1	-22.3	0.369	0.454	0.37
2	-EE	Top	32	-3.4	-0.7	9.6	33	-3.4	0.8	9.6	0.237	0.292	0.15
		Bot	1	2.7	-0.1	-21.9	47	0.3	-0.3	-2.5	0.358	0.441	0.35
3	VEE	Top	1	2.7	-7.6	26.6	1	2.7	-7.6	26.6	0.394	0.469	0.39
		Bot	33	-3.0	4.6	-23.2	34	-3.0	5.1	-22.3	0.369	0.455	0.37

WELDS:

Splice Id	Side	Outside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Rn/sf	Inside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Rn/sf	Web_To_Bep Size	Typ	Shear(k/in) Calc	Rn/sf
1	L	0.188	F2	2.08	2.78	0.188	F2	2.05	2.78	0.125	F1	0.67	1.86
1	R	0.188	F2	2.54	2.78	0.188	F2	2.22	2.78	0.125	F1	0.67	1.86
2	L	0.188	F2	0.91	2.78	0.188	F2	2.08	2.78	0.125	F1	0.07	1.86
2	R	0.188	F2	0.91	2.78	0.188	F2	2.08	2.78	0.125	F1	0.07	1.86
3	L	0.188	F2	2.54	2.78	0.188	F2	2.22	2.78	0.125	F1	0.67	1.86
3	R	0.188	F2	2.08	2.78	0.188	F2	2.06	2.78	0.125	F1	0.67	1.86

LOAD COMBINATIONS:

```
    1 - DL+CL+LL
    2 - DL+CL+LL
   31 - 0.60DL+LW1+LWIND1_L2E
   32 - 0.60DL+LW1+LWIND1_R2E
   33 - 0.60DL-LW1+LWIND1_L2E
   34 - 0.60DL-LW1+LWIND1_R2E
   47 - 1.03DL+1.03CL+0.70LSEIS
```

M11013 Bearing Stiffeners 2/ 7/12 3:55pm

Stiffener Yield = 50.0 (ksi)
Corner Cut = 0.50 (in)

STIFFENER SIZE:

Stiffener Location	No.	Web(in) Depth	Web(in) Thick	Stiffener_Size(in) Width	Thick	Length
Left Col	1	11.50	0.220	2.50	0.188	11.50
Right Col	1	11.50	0.220	2.50	0.188	11.50

STIFFENER DESIGN:

Stiffener Location	Tension(k) Load	Tension(k) Calc	Tension(k) Pn/sf	Compression(k) Load	Compression(k) Calc	Compression(k) Pn/sf	Max UC
Left Col	32	18.4	22.5	2	20.9	58.7	0.82
Right Col	33	18.4	22.5	1	20.9	58.7	0.82

WELDS:

Stiffener Location	---Stiff_To_Flg/EP--- Size	Typ	Shear(k/in) Calc	Rn/sf	-----Stiff_To_Web---- Size	Typ	Shear(k/in) Calc	Rn/sf
Left Col	0.188	F2	2.30	2.78	0.188	F2	0.48	1.86
Right Col	0.188	F2	2.30	2.78	0.188	F2	0.48	1.86

LOAD COMBINATIONS:
----

1 - DL+CL+LL
2 - DL+CL+LL
32 - 0.60DL+LW1+LWIND1_R2E
33 - 0.60DL-LW1+LWIND1_L2E

LOAD COMBINATION : 1 DL+CL+LL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	Axl+Bend O-f UcO	Axl+Bend I-f UcI
1	1	8.59	-2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.54	-2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
1	3	8.48	-2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
1	4	8.43	-2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
2	5	3.29	7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
2	6	3.08	4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
2	7	2.87	2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
2	8	2.66	-0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.67	0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.88	-2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
3	11	3.08	-4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
3	12	3.29	-7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
4	13	8.47	2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
4	14	8.53	2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
4	15	8.58	2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
4	16	8.63	2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 2 DL+CL+LL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 3 DL+CL+SL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.59	-2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.54	-2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
1	3	8.48	-2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
1	4	8.43	-2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
2	5	3.29	7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
2	6	3.08	4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
2	7	2.87	2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
2	8	2.66	-0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.67	0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.88	-2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
3	11	3.08	-4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
3	12	3.29	-7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66

4	13	8.47	2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
4	14	8.53	2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
4	15	8.58	2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
4	16	8.63	2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 4 DL+CL+SL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 5 DL+CL+SL+Drift

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50

3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 6 DL+CL+SL+Drift

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 7 DL+CL+SL+Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61

2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 8 DL+CL+SL+Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	8.63	-2.70	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.08	0.16
1	2	8.58	-2.70	9.5	54.6	52.9	49.2	49.2	0.16	0.05	0.04	0.24
1	3	8.53	-2.70	18.9	54.6	52.9	49.2	49.2	0.16	0.05	0.23	0.43
1	4	8.47	-2.70	28.4	106.2	52.9	49.2	49.2	0.08	0.05	0.50	0.61
2	5	3.29	7.35	26.6	89.2	39.1	41.1	41.1	0.04	0.19	0.61	0.66
2	6	3.08	4.86	-0.7	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.03
2	7	2.88	2.37	-16.9	70.9	39.1	38.1	41.1	0.04	0.06	0.46	0.37
2	8	2.67	-0.12	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	9	2.66	0.17	-21.9	90.9	39.1	41.1	41.1	0.03	0.00	0.55	0.50
3	10	2.87	-2.33	-17.0	70.9	39.1	37.9	41.1	0.04	0.06	0.47	0.37
3	11	3.08	-4.82	-1.1	70.9	39.1	41.1	41.1	0.04	0.12	0.04	0.02
3	12	3.29	-7.31	26.0	89.2	39.1	41.1	41.1	0.04	0.19	0.59	0.65
4	13	8.43	2.65	27.8	106.2	52.9	49.2	49.2	0.08	0.05	0.49	0.60
4	14	8.48	2.65	18.5	54.6	52.9	49.2	49.2	0.16	0.05	0.22	0.42
4	15	8.54	2.65	9.3	54.6	52.9	49.2	49.2	0.16	0.05	0.03	0.24
4	16	8.59	2.65	0.0	54.6	52.9	49.2	49.2	0.16	0.05	0.16	0.08

LOAD COMBINATION : 9 DL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.11	-0.29	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.01	0.02
1	2	1.06	-0.29	1.0	54.6	52.9	49.2	49.2	0.02	0.01	0.00	0.03

1	3	1.00	-0.29	2.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
1	4	0.95	-0.29	3.1	106.2	52.9	49.2	49.2	0.01	0.01	0.05	0.07
2	5	0.36	0.81	2.9	89.2	39.1	41.1	41.1	0.00	0.02	0.07	0.07
2	6	0.34	0.53	-0.1	70.9	39.1	41.1	41.1	0.00	0.01	0.01	0.00
2	7	0.32	0.26	-1.9	70.9	39.1	37.9	41.1	0.00	0.01	0.05	0.04
2	8	0.29	-0.02	-2.4	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	9	0.30	0.01	-2.4	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	10	0.32	-0.26	-1.9	70.9	39.1	38.1	41.1	0.00	0.01	0.05	0.04
3	11	0.34	-0.54	-0.1	70.9	39.1	41.1	41.1	0.00	0.01	0.00	0.00
3	12	0.36	-0.81	2.9	89.2	39.1	41.1	41.1	0.00	0.02	0.07	0.07
4	13	0.96	0.30	3.1	106.2	52.9	49.2	49.2	0.01	0.01	0.05	0.07
4	14	1.01	0.30	2.1	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
4	15	1.06	0.30	1.0	54.6	52.9	49.2	49.2	0.02	0.01	0.00	0.03
4	16	1.11	0.30	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01

LOAD COMBINATION : 10 DL

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.11	-0.30	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.01	0.02
1	2	1.06	-0.30	1.0	54.6	52.9	49.2	49.2	0.02	0.01	0.00	0.03
1	3	1.01	-0.30	2.1	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
1	4	0.96	-0.30	3.1	106.2	52.9	49.2	49.2	0.01	0.01	0.05	0.07
2	5	0.36	0.81	2.9	89.2	39.1	41.1	41.1	0.00	0.02	0.07	0.07
2	6	0.34	0.54	-0.1	70.9	39.1	41.1	41.1	0.00	0.01	0.00	0.00
2	7	0.32	0.26	-1.9	70.9	39.1	38.1	41.1	0.00	0.01	0.05	0.04
2	8	0.30	-0.01	-2.4	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	9	0.29	0.02	-2.4	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	10	0.32	-0.26	-1.9	70.9	39.1	37.9	41.1	0.00	0.01	0.05	0.04
3	11	0.34	-0.53	-0.1	70.9	39.1	41.1	41.1	0.00	0.01	0.01	0.00
3	12	0.36	-0.81	2.9	89.2	39.1	41.1	41.1	0.00	0.02	0.07	0.07
4	13	0.95	0.29	3.1	106.2	52.9	49.2	49.2	0.01	0.01	0.05	0.07
4	14	1.00	0.29	2.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
4	15	1.06	0.29	1.0	54.6	52.9	49.2	49.2	0.02	0.01	0.00	0.03
4	16	1.11	0.29	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01

LOAD COMBINATION : 11 DL+CL+0.75LL+0.75WL1

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	2.86	-0.09	0.0	54.6	52.9	49.2	49.2	0.05	0.00	0.03	0.05
1	2	2.80	-0.33	0.7	54.6	52.9	49.2	49.2	0.05	0.01	0.04	0.04
1	3	2.75	-0.58	2.3	54.6	52.9	49.2	49.2	0.05	0.01	0.00	0.06
1	4	2.70	-0.82	4.8	106.2	52.9	49.2	49.2	0.03	0.02	0.07	0.11
2	5	1.10	2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
2	6	0.94	1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
2	7	0.78	0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
2	8	0.62	-0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.66	-0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.82	-1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
3	11	0.98	-2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
3	12	1.14	-3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
4	13	4.48	1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
4	14	4.53	1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
4	15	4.59	2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
4	16	4.64	2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04

LOAD COMBINATION : 12 DL+CL+0.75LL+0.75WR1

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.64	-2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04
1	2	4.59	-2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
1	3	4.53	-1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
1	4	4.48	-1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
2	5	1.14	3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
2	6	0.98	2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
2	7	0.82	1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
2	8	0.66	0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.62	0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.78	-0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
3	11	0.94	-1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
3	12	1.10	-2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11

2	5	1.10	2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
2	6	0.94	1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
2	7	0.78	0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
2	8	0.62	-0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.66	-0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.82	-1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
3	11	0.98	-2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
3	12	1.14	-3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
4	13	4.48	1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
4	14	4.53	1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
4	15	4.59	2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
4	16	4.64	2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04

LOAD COMBINATION : 17 DL+CL+0.75SL+0.75WL1+0.75Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	2.86	-0.09	0.0	54.6	52.9	49.2	49.2	0.05	0.00	0.03	0.05
1	2	2.80	-0.33	0.7	54.6	52.9	49.2	49.2	0.05	0.01	0.04	0.04
1	3	2.75	-0.58	2.3	54.6	52.9	49.2	49.2	0.05	0.01	0.00	0.06
1	4	2.70	-0.82	4.8	106.2	52.9	49.2	49.2	0.03	0.02	0.07	0.11
2	5	1.10	2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
2	6	0.94	1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
2	7	0.78	0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
2	8	0.62	-0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.66	-0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.82	-1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
3	11	0.98	-2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
3	12	1.14	-3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
4	13	4.48	1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
4	14	4.53	1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
4	15	4.59	2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
4	16	4.64	2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04

LOAD COMBINATION : 18 DL+CL+0.75SL+0.75WR1

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.64	-2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04
1	2	4.59	-2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19

1	3	4.53	-1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
1	4	4.48	-1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
2	5	1.14	3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
2	6	0.98	2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
2	7	0.82	1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
2	8	0.66	0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.62	0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.78	-0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
3	11	0.94	-1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
3	12	1.10	-2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
4	13	2.70	0.82	4.8	106.2	52.9	49.2	49.2	0.03	0.02	0.07	0.11
4	14	2.75	0.58	2.3	54.6	52.9	49.2	49.2	0.05	0.01	0.00	0.06
4	15	2.80	0.33	0.7	54.6	52.9	49.2	49.2	0.05	0.01	0.04	0.04
4	16	2.86	0.09	0.0	54.6	52.9	49.2	49.2	0.05	0.00	0.03	0.05

LOAD COMBINATION : 19 DL+CL+0.75SL+0.75WR1+0.75Drift

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.64	-2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04
1	2	4.59	-2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
1	3	4.53	-1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
1	4	4.48	-1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
2	5	1.14	3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
2	6	0.98	2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
2	7	0.82	1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
2	8	0.66	0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.62	0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.78	-0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
3	11	0.94	-1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
3	12	1.10	-2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
4	13	2.70	0.82	4.8	106.2	52.9	49.2	49.2	0.03	0.02	0.07	0.11
4	14	2.75	0.58	2.3	54.6	52.9	49.2	49.2	0.05	0.01	0.00	0.06
4	15	2.80	0.33	0.7	54.6	52.9	49.2	49.2	0.05	0.01	0.04	0.04
4	16	2.86	0.09	0.0	54.6	52.9	49.2	49.2	0.05	0.00	0.03	0.05

LOAD COMBINATION : 20 DL+CL+0.75SL+0.75WR1+0.75Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.64	-2.60	0.0	54.6	52.9	49.2	49.2	0.08	0.05	0.08	0.04
1	2	4.59	-2.09	8.2	54.6	52.9	49.2	49.2	0.08	0.04	0.08	0.19
1	3	4.53	-1.58	14.6	54.6	52.9	49.2	49.2	0.08	0.03	0.21	0.32
1	4	4.48	-1.07	19.3	106.2	52.9	49.2	49.2	0.04	0.02	0.35	0.41
2	5	1.14	3.95	18.2	89.2	39.1	41.1	41.1	0.01	0.10	0.43	0.45
2	6	0.98	2.70	3.4	70.9	39.1	41.1	28.6	0.01	0.07	0.07	0.12
2	7	0.82	1.45	-5.9	70.9	39.1	41.1	41.1	0.01	0.04	0.15	0.13
2	8	0.66	0.20	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	9	0.62	0.24	-9.6	90.9	39.1	41.1	41.1	0.01	0.01	0.24	0.23
3	10	0.78	-0.61	-8.8	70.9	39.1	35.4	41.1	0.01	0.02	0.25	0.20
3	11	0.94	-1.45	-4.2	70.9	39.1	41.1	41.1	0.01	0.04	0.11	0.09
3	12	1.10	-2.30	4.2	89.2	39.1	41.1	41.1	0.01	0.06	0.09	0.11
4	13	2.70	0.82	4.8	106.2	52.9	49.2	49.2	0.03	0.02	0.07	0.11
4	14	2.75	0.58	2.3	54.6	52.9	49.2	49.2	0.05	0.01	0.00	0.06
4	15	2.80	0.33	0.7	54.6	52.9	49.2	49.2	0.05	0.01	0.04	0.04
4	16	2.86	0.09	0.0	54.6	52.9	49.2	49.2	0.05	0.00	0.03	0.05

LOAD COMBINATION : 21 DL+CL+0.75SL+0.75WL2

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS		Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.37	0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.04	0.08
1	2	4.32	-0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
1	3	4.26	-1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
1	4	4.21	-1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
2	5	2.44	3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
2	6	2.27	2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
2	7	2.11	0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
2	8	1.95	-0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	9	1.99	-0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	10	2.15	-1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17
3	11	2.31	-3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14
3	12	2.47	-5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
4	13	6.00	2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
4	14	6.06	2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37

4	15	6.11	2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
4	16	6.16	2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06

LOAD COMBINATION : 22 DL+CL+0.75SL+0.75WL2+0.75Drift

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.37	0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.04	0.08
1	2	4.32	-0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
1	3	4.26	-1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
1	4	4.21	-1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
2	5	2.44	3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
2	6	2.27	2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
2	7	2.11	0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
2	8	1.95	-0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	9	1.99	-0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	10	2.15	-1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17
3	11	2.31	-3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14
3	12	2.47	-5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
4	13	6.00	2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
4	14	6.06	2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37
4	15	6.11	2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
4	16	6.16	2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06

LOAD COMBINATION : 23 DL+CL+0.75SL+0.75WL2+0.75Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	4.37	0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.04	0.08
1	2	4.32	-0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
1	3	4.26	-1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
1	4	4.21	-1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
2	5	2.44	3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
2	6	2.27	2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
2	7	2.11	0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
2	8	1.95	-0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	9	1.99	-0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	10	2.15	-1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17

3	11	2.31	-3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14
3	12	2.47	-5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
4	13	6.00	2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
4	14	6.06	2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37
4	15	6.11	2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
4	16	6.16	2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06

LOAD COMBINATION : 24 DL+CL+0.75SL+0.75WR2

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	6.16	-2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06
1	2	6.11	-2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
1	3	6.06	-2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37
1	4	6.00	-2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
2	5	2.47	5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
2	6	2.31	3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14
2	7	2.15	1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17
2	8	1.99	0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	9	1.95	0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	10	2.11	-0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
3	11	2.27	-2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
3	12	2.44	-3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
4	13	4.21	1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
4	14	4.26	1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
4	15	4.32	0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
4	16	4.37	-0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.08	0.04

LOAD COMBINATION : 25 DL+CL+0.75SL+0.75WR2+0.75Drift

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	6.16	-2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06
1	2	6.11	-2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
1	3	6.06	-2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37
1	4	6.00	-2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
2	5	2.47	5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
2	6	2.31	3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14

2	7	2.15	1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17
2	8	1.99	0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	9	1.95	0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	10	2.11	-0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
3	11	2.27	-2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
3	12	2.44	-3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
4	13	4.21	1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
4	14	4.26	1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
4	15	4.32	0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
4	16	4.37	-0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.04	0.08

LOAD COMBINATION : 26 DL+CL+0.75SL+0.75WR2+0.75Slide

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	6.16	-2.47	0.0	54.6	52.9	49.2	49.2	0.11	0.05	0.11	0.06
1	2	6.11	-2.36	8.5	54.6	52.9	49.2	49.2	0.11	0.04	0.06	0.21
1	3	6.06	-2.24	16.5	54.6	52.9	49.2	49.2	0.11	0.04	0.22	0.37
1	4	6.00	-2.12	24.1	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.52
2	5	2.47	5.21	22.9	89.2	39.1	41.1	41.1	0.03	0.13	0.53	0.57
2	6	2.31	3.51	3.5	70.9	39.1	41.1	28.3	0.03	0.09	0.05	0.14
2	7	2.15	1.81	-8.4	70.9	39.1	40.4	41.1	0.03	0.05	0.22	0.17
2	8	1.99	0.11	-12.7	90.9	39.1	41.1	41.1	0.02	0.00	0.32	0.29
3	9	1.95	0.34	-12.8	90.9	39.1	41.1	41.1	0.02	0.01	0.32	0.29
3	10	2.11	-0.95	-11.4	70.9	39.1	35.8	41.1	0.03	0.02	0.33	0.25
3	11	2.27	-2.25	-4.2	70.9	39.1	41.1	41.1	0.03	0.06	0.12	0.07
3	12	2.44	-3.55	8.7	89.2	39.1	41.1	41.1	0.03	0.09	0.19	0.23
4	13	4.21	1.86	9.4	106.2	52.9	49.2	49.2	0.04	0.04	0.15	0.21
4	14	4.26	1.22	4.1	54.6	52.9	49.2	49.2	0.08	0.02	0.00	0.11
4	15	4.32	0.58	0.9	54.6	52.9	49.2	49.2	0.08	0.01	0.06	0.06
4	16	4.37	-0.06	0.0	54.6	52.9	49.2	49.2	0.08	0.00	0.04	0.08

LOAD COMBINATION : 27 0.60DL+WL1

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-4.47	2.44	0.0	139.1	52.9	49.2	49.2	0.03	0.05	0.03	0.03
1	2	-4.50	2.11	-8.0	139.1	52.9	49.2	49.2	0.03	0.04	0.13	0.19

1	3	-4.53	1.78	-14.8	139.1	52.9	49.2	49.2	0.03	0.03	0.27	0.33
1	4	-4.57	1.45	-20.4	139.1	52.9	49.2	49.2	0.03	0.03	0.38	0.45
2	5	-1.72	-4.01	-19.5	117.7	39.1	41.1	41.1	0.01	0.10	0.46	0.49
2	6	-1.74	-2.72	-4.4	117.7	39.1	41.1	41.1	0.01	0.07	0.09	0.12
2	7	-1.75	-1.43	4.9	117.7	39.1	41.1	32.3	0.01	0.04	0.13	0.13
2	8	-1.77	-0.14	8.4	117.7	39.1	41.1	41.1	0.02	0.00	0.22	0.19
3	9	-1.72	-0.38	8.4	117.7	39.1	41.1	41.1	0.01	0.01	0.22	0.19
3	10	-1.71	0.38	8.4	117.7	39.1	41.1	18.3	0.01	0.01	0.22	0.43
3	11	-1.70	1.13	5.0	117.7	39.1	41.1	18.3	0.01	0.03	0.14	0.25
3	12	-1.68	1.89	-1.7	117.7	39.1	41.1	41.1	0.01	0.05	0.03	0.06
4	13	-2.26	-1.21	-2.0	139.1	52.9	49.2	49.2	0.02	0.02	0.03	0.06
4	14	-2.23	-0.53	1.0	139.1	52.9	49.2	35.5	0.02	0.01	0.04	0.01
4	15	-2.20	0.15	1.7	139.1	52.9	49.2	35.5	0.02	0.00	0.05	0.03
4	16	-2.17	0.83	0.0	139.1	52.9	49.2	35.5	0.02	0.02	0.02	0.02

LOAD COMBINATION : 28 0.60DL+WR1

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS		Ax1+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-2.17	-0.83	0.0	139.1	52.9	49.2	35.5	0.02	0.02	0.02	0.02
1	2	-2.20	-0.15	1.7	139.1	52.9	49.2	35.5	0.02	0.00	0.05	0.03
1	3	-2.23	0.53	1.0	139.1	52.9	49.2	35.5	0.02	0.01	0.04	0.01
1	4	-2.26	1.21	-2.0	139.1	52.9	49.2	49.2	0.02	0.02	0.03	0.06
2	5	-1.68	-1.89	-1.7	117.7	39.1	41.1	41.1	0.01	0.05	0.03	0.06
2	6	-1.70	-1.13	5.0	117.7	39.1	41.1	18.3	0.01	0.03	0.14	0.25
2	7	-1.71	-0.38	8.4	117.7	39.1	41.1	18.3	0.01	0.01	0.22	0.43
2	8	-1.72	0.38	8.4	117.7	39.1	41.1	41.1	0.01	0.01	0.22	0.19
3	9	-1.77	0.14	8.4	117.7	39.1	41.1	41.1	0.02	0.00	0.22	0.19
3	10	-1.75	1.43	4.9	117.7	39.1	41.1	32.3	0.01	0.04	0.13	0.13
3	11	-1.74	2.72	-4.4	117.7	39.1	41.1	41.1	0.01	0.07	0.09	0.12
3	12	-1.72	4.01	-19.5	117.7	39.1	41.1	41.1	0.01	0.10	0.46	0.49
4	13	-4.57	-1.45	-20.4	139.1	52.9	49.2	49.2	0.03	0.03	0.38	0.45
4	14	-4.53	-1.78	-14.8	139.1	52.9	49.2	49.2	0.03	0.03	0.27	0.33
4	15	-4.50	-2.11	-8.0	139.1	52.9	49.2	49.2	0.03	0.04	0.13	0.19
4	16	-4.47	-2.44	0.0	139.1	52.9	49.2	49.2	0.03	0.05	0.03	0.03

LOAD COMBINATION : 29 0.60DL+WL2

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-2.46	2.63	0.0	139.1	52.9	46.9	49.2	0.02	0.05	0.02	0.02
1	2	-2.49	1.78	-7.7	139.1	52.9	46.9	49.2	0.02	0.03	0.15	0.17
1	3	-2.52	0.93	-12.5	139.1	52.9	46.9	49.2	0.02	0.02	0.25	0.27
1	4	-2.55	0.08	-14.2	139.1	52.9	48.9	49.2	0.02	0.00	0.27	0.31
2	5	0.05	-2.35	-13.4	89.2	39.1	41.1	41.1	0.00	0.06	0.33	0.33
2	6	0.04	-1.66	-4.5	70.9	39.1	41.1	41.1	0.00	0.04	0.11	0.11
2	7	0.03	-0.97	1.4	70.9	39.1	41.1	41.1	0.00	0.02	0.03	0.03
2	8	0.01	-0.28	4.2	90.9	39.1	41.1	41.1	0.00	0.01	0.10	0.10
3	9	0.06	-0.26	4.2	90.9	39.1	41.1	41.1	0.00	0.01	0.10	0.10
3	10	0.07	-0.11	5.1	70.9	39.1	41.1	16.3	0.00	0.00	0.12	0.31
3	11	0.08	0.05	5.2	70.9	39.1	41.1	16.3	0.00	0.00	0.12	0.32
3	12	0.10	0.20	4.6	89.2	39.1	41.1	41.1	0.00	0.01	0.11	0.11
4	13	-0.23	0.19	4.5	139.1	52.9	49.2	49.2	0.00	0.00	0.09	0.09
4	14	-0.20	0.35	3.5	139.1	52.9	49.2	49.1	0.00	0.01	0.07	0.07
4	15	-0.16	0.50	2.0	139.1	52.9	49.2	49.1	0.00	0.01	0.04	0.04
4	16	-0.13	0.66	0.0	139.1	52.9	49.1	49.2	0.00	0.01	0.00	0.00

LOAD COMBINATION : 30 0.60DL+WR2

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-0.13	-0.66	0.0	139.1	52.9	49.2	49.1	0.00	0.01	0.00	0.00
1	2	-0.16	-0.50	2.0	139.1	52.9	49.2	49.1	0.00	0.01	0.04	0.04
1	3	-0.20	-0.35	3.5	139.1	52.9	49.2	49.1	0.00	0.01	0.07	0.07
1	4	-0.23	-0.19	4.5	139.1	52.9	49.2	49.2	0.00	0.00	0.09	0.09
2	5	0.10	-0.20	4.6	89.2	39.1	41.1	41.1	0.00	0.01	0.11	0.11
2	6	0.08	-0.05	5.2	70.9	39.1	41.1	16.3	0.00	0.00	0.12	0.32
2	7	0.07	0.11	5.1	70.9	39.1	41.1	16.3	0.00	0.00	0.12	0.31
2	8	0.06	0.26	4.2	90.9	39.1	41.1	41.1	0.00	0.01	0.10	0.10
3	9	0.01	0.28	4.2	90.9	39.1	41.1	41.1	0.00	0.01	0.10	0.10
3	10	0.03	0.97	1.4	70.9	39.1	41.1	41.1	0.00	0.02	0.03	0.03
3	11	0.04	1.66	-4.5	70.9	39.1	41.1	41.1	0.00	0.04	0.11	0.11
3	12	0.05	2.35	-13.4	89.2	39.1	41.1	41.1	0.00	0.06	0.33	0.33
4	13	-2.55	-0.08	-14.2	139.1	52.9	48.9	49.2	0.02	0.00	0.27	0.31
4	14	-2.52	-0.93	-12.5	139.1	52.9	46.9	49.2	0.02	0.02	0.25	0.27

4	15	-2.49	-1.78	-7.7	139.1	52.9	46.9	49.2	0.02	0.03	0.15	0.17
4	16	-2.46	-2.63	0.0	139.1	52.9	49.2	46.9	0.02	0.05	0.02	0.02

LOAD COMBINATION : 31 0.60DL+LW1+LWIND1_L2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-5.65	0.94	0.0	139.1	52.9	49.2	49.2	0.04	0.02	0.04	0.04
1	2	-5.68	1.76	-4.7	139.1	52.9	49.2	49.2	0.04	0.03	0.06	0.14
1	3	-5.71	2.59	-12.3	139.1	52.9	49.2	49.2	0.04	0.05	0.21	0.29
1	4	-5.75	3.41	-22.8	139.1	52.9	49.2	49.2	0.04	0.06	0.42	0.51
2	5	-3.40	-4.84	-22.3	117.7	39.1	41.1	41.1	0.03	0.12	0.51	0.57
2	6	-3.42	-2.92	-4.9	117.7	39.1	41.1	41.1	0.03	0.07	0.09	0.15
2	7	-3.43	-1.63	5.2	117.7	39.1	41.1	32.8	0.03	0.04	0.16	0.12
2	8	-3.44	-0.34	9.6	117.7	39.1	41.1	41.1	0.03	0.01	0.26	0.21
3	9	-3.35	-0.82	9.6	117.7	39.1	41.1	41.1	0.03	0.02	0.26	0.21
3	10	-3.33	0.47	10.4	117.7	39.1	41.1	18.5	0.03	0.01	0.28	0.50
3	11	-3.32	1.76	5.5	117.7	39.1	41.1	18.5	0.03	0.04	0.16	0.24
3	12	-3.31	3.05	-5.3	117.7	39.1	41.1	41.1	0.03	0.08	0.10	0.16
4	13	-3.73	-1.79	-5.8	139.1	52.9	49.2	49.2	0.03	0.03	0.09	0.14
4	14	-3.70	-0.97	-1.0	139.1	52.9	49.2	49.2	0.03	0.02	0.03	0.05
4	15	-3.67	-0.14	1.0	139.1	52.9	49.2	49.2	0.03	0.00	0.05	0.03
4	16	-3.64	0.69	0.0	139.1	52.9	49.2	49.2	0.03	0.01	0.03	0.03

LOAD COMBINATION : 32 0.60DL+LW1+LWIND1_R2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-4.97	1.00	0.0	139.1	52.9	49.2	49.2	0.04	0.02	0.04	0.04
1	2	-5.00	1.83	-5.0	139.1	52.9	49.2	49.2	0.04	0.03	0.07	0.14
1	3	-5.04	2.65	-12.8	139.1	52.9	49.2	49.2	0.04	0.05	0.22	0.30
1	4	-5.07	3.48	-23.5	139.1	52.9	49.2	49.2	0.04	0.07	0.44	0.51
2	5	-3.41	-4.38	-23.1	117.7	39.1	41.1	41.1	0.03	0.11	0.54	0.59
2	6	-3.43	-3.09	-6.5	117.7	39.1	41.1	41.1	0.03	0.08	0.13	0.19
2	7	-3.44	-1.80	4.4	117.7	39.1	41.1	36.1	0.03	0.05	0.14	0.09
2	8	-3.45	-0.51	9.6	117.7	39.1	41.1	41.1	0.03	0.01	0.26	0.21
3	9	-3.33	-0.99	9.6	117.7	39.1	41.1	41.1	0.03	0.03	0.26	0.21
3	10	-3.32	0.30	11.2	117.7	39.1	41.1	17.8	0.03	0.01	0.30	0.57

3	11	-3.30	1.59	7.0	117.7	39.1	41.1	17.8	0.03	0.04	0.20	0.33
3	12	-3.29	3.51	-4.4	117.7	39.1	41.1	41.1	0.03	0.09	0.08	0.13
4	13	-4.41	-1.72	-5.1	139.1	52.9	49.2	49.2	0.03	0.03	0.07	0.14
4	14	-4.38	-0.90	-0.5	139.1	52.9	38.5	49.2	0.03	0.02	0.03	0.04
4	15	-4.35	-0.07	1.2	139.1	52.9	49.2	38.5	0.03	0.00	0.06	0.03
4	16	-4.32	0.75	0.0	139.1	52.9	38.5	49.2	0.03	0.01	0.03	0.03

LOAD COMBINATION : 33 0.60DL-LW1+LWIND1_L2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-3.10	-0.76	0.0	139.1	52.9	49.2	38.4	0.02	0.01	0.02	0.02
1	2	-3.13	0.07	1.2	139.1	52.9	49.2	38.4	0.02	0.00	0.05	0.00
1	3	-3.17	0.89	-0.5	139.1	52.9	38.4	49.2	0.02	0.02	0.02	0.03
1	4	-3.20	1.72	-5.1	139.1	52.9	49.2	49.2	0.02	0.03	0.08	0.13
2	5	-3.29	-3.51	-4.4	117.7	39.1	41.1	41.1	0.03	0.09	0.08	0.13
2	6	-3.30	-1.59	7.0	117.7	39.1	41.1	17.8	0.03	0.04	0.20	0.33
2	7	-3.32	-0.29	11.2	117.7	39.1	41.1	17.8	0.03	0.01	0.30	0.57
2	8	-3.33	1.00	9.6	117.7	39.1	41.1	41.1	0.03	0.03	0.26	0.21
3	9	-3.46	0.51	9.6	117.7	39.1	41.1	41.1	0.03	0.01	0.26	0.21
3	10	-3.44	1.80	4.4	117.7	39.1	41.1	36.2	0.03	0.05	0.14	0.09
3	11	-3.43	3.09	-6.5	117.7	39.1	41.1	41.1	0.03	0.08	0.13	0.19
3	12	-3.42	4.38	-23.2	117.7	39.1	41.1	41.1	0.03	0.11	0.54	0.59
4	13	-5.07	-3.48	-23.6	139.1	52.9	49.2	49.2	0.04	0.07	0.44	0.52
4	14	-5.04	-2.66	-12.8	139.1	52.9	49.2	49.2	0.04	0.05	0.23	0.30
4	15	-5.01	-1.83	-5.0	139.1	52.9	49.2	49.2	0.04	0.03	0.07	0.14
4	16	-4.98	-1.01	0.0	139.1	52.9	49.2	49.2	0.04	0.02	0.04	0.04

LOAD COMBINATION : 34 0.60DL-LW1+LWIND1_R2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-2.43	-0.69	0.0	139.1	52.9	49.2	49.2	0.02	0.01	0.02	0.02
1	2	-2.46	0.14	1.0	139.1	52.9	49.2	49.2	0.02	0.00	0.04	0.00
1	3	-2.49	0.96	-1.0	139.1	52.9	49.2	49.2	0.02	0.02	0.00	0.04
1	4	-2.52	1.79	-5.8	139.1	52.9	49.2	49.2	0.02	0.03	0.10	0.14
2	5	-3.31	-3.04	-5.2	117.7	39.1	41.1	41.1	0.03	0.08	0.10	0.16
2	6	-3.32	-1.75	5.5	117.7	39.1	41.1	18.5	0.03	0.04	0.16	0.24

2	7	-3.34	-0.46	10.4	117.7	39.1	41.1	18.5	0.03	0.01	0.28	0.50
2	8	-3.35	0.83	9.6	117.7	39.1	41.1	41.1	0.03	0.02	0.26	0.21
3	9	-3.45	0.34	9.6	117.7	39.1	41.1	41.1	0.03	0.01	0.26	0.21
3	10	-3.43	1.63	5.2	117.7	39.1	41.1	32.9	0.03	0.04	0.16	0.12
3	11	-3.42	2.92	-5.0	117.7	39.1	41.1	41.1	0.03	0.07	0.09	0.15
3	12	-3.41	4.85	-22.3	117.7	39.1	41.1	41.1	0.03	0.12	0.51	0.57
4	13	-5.75	-3.42	-22.9	139.1	52.9	49.2	49.2	0.04	0.06	0.42	0.51
4	14	-5.72	-2.59	-12.4	139.1	52.9	49.2	49.2	0.04	0.05	0.21	0.29
4	15	-5.69	-1.77	-4.7	139.1	52.9	49.2	49.2	0.04	0.03	0.06	0.14
4	16	-5.65	-0.94	0.0	139.1	52.9	49.2	49.2	0.04	0.02	0.04	0.04

LOAD COMBINATION : 35 0.60DL+LW2+LWIND2_L2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-2.28	-0.67	0.0	139.1	52.9	49.2	39.6	0.02	0.01	0.02	0.02
1	2	-2.31	-0.31	1.7	139.1	52.9	49.2	39.6	0.02	0.01	0.05	0.02
1	3	-2.35	0.04	2.2	139.1	52.9	49.2	39.6	0.02	0.00	0.06	0.03
1	4	-2.38	0.40	1.4	139.1	52.9	49.2	49.2	0.02	0.01	0.05	0.01
2	5	-1.60	-1.82	2.0	117.7	39.1	41.1	41.1	0.01	0.05	0.06	0.03
2	6	-1.62	-0.50	7.1	117.7	39.1	41.1	16.5	0.01	0.01	0.19	0.40
2	7	-1.63	0.20	7.8	117.7	39.1	41.1	16.5	0.01	0.00	0.20	0.44
2	8	-1.65	0.88	5.4	117.7	39.1	41.1	41.1	0.01	0.02	0.14	0.12
3	9	-1.77	0.64	5.3	117.7	39.1	41.1	41.1	0.02	0.02	0.14	0.12
3	10	-1.76	1.33	0.9	117.7	39.1	41.1	39.6	0.01	0.03	0.04	0.01
3	11	-1.75	2.02	-6.5	117.7	39.1	41.1	41.1	0.01	0.05	0.14	0.17
3	12	-1.73	2.70	-17.1	117.7	39.1	41.1	41.1	0.01	0.07	0.40	0.43
4	13	-3.06	-2.18	-17.3	139.1	52.9	49.2	49.2	0.02	0.04	0.33	0.37
4	14	-3.03	-1.82	-10.3	139.1	52.9	49.2	49.2	0.02	0.03	0.19	0.23
4	15	-2.99	-1.47	-4.5	139.1	52.9	49.2	49.2	0.02	0.03	0.07	0.11
4	16	-2.96	-1.12	0.0	139.1	52.9	49.2	49.2	0.02	0.02	0.02	0.02

LOAD COMBINATION : 36 0.60DL+LW2+LWIND2_R2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-1.61	-0.60	0.0	139.1	52.9	49.2	38.3	0.01	0.01	0.01	0.01
1	2	-1.64	-0.24	1.5	139.1	52.9	49.2	38.3	0.01	0.00	0.04	0.02

1	3	-1.67	0.11	1.7	139.1	52.9	49.2	38.3	0.01	0.00	0.05	0.03
1	4	-1.70	0.46	0.7	139.1	52.9	49.2	49.2	0.01	0.01	0.03	0.00
2	5	-1.62	-1.35	1.1	117.7	39.1	41.1	41.1	0.01	0.03	0.04	0.01
2	6	-1.64	-0.66	5.6	117.7	39.1	41.1	16.6	0.01	0.02	0.15	0.30
2	7	-1.65	0.02	7.0	117.7	39.1	41.1	16.6	0.01	0.00	0.18	0.39
2	8	-1.66	0.71	5.4	117.7	39.1	41.1	41.1	0.01	0.02	0.14	0.12
3	9	-1.76	0.47	5.3	117.7	39.1	41.1	41.1	0.01	0.01	0.14	0.12
3	10	-1.75	1.16	1.7	117.7	39.1	41.1	41.1	0.01	0.03	0.06	0.03
3	11	-1.73	1.85	-5.0	117.7	39.1	41.1	41.1	0.01	0.05	0.11	0.14
3	12	-1.72	3.17	-16.2	117.7	39.1	41.1	41.1	0.01	0.08	0.38	0.41
4	13	-3.73	-2.11	-16.6	139.1	52.9	49.2	49.2	0.03	0.04	0.31	0.36
4	14	-3.70	-1.76	-9.8	139.1	52.9	49.2	49.2	0.03	0.03	0.17	0.23
4	15	-3.67	-1.40	-4.3	139.1	52.9	49.2	49.2	0.03	0.03	0.06	0.11
4	16	-3.64	-1.05	0.0	139.1	52.9	49.2	49.2	0.03	0.02	0.03	0.03

LOAD COMBINATION : 37 0.60DL-LW2+LWIND2_L2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Ax1+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-2.43	1.05	0.0	139.1	52.9	49.2	49.2	0.02	0.02	0.02	0.02
1	2	-2.46	1.41	-4.3	139.1	52.9	49.2	49.2	0.02	0.03	0.07	0.11
1	3	-2.49	1.76	-9.8	139.1	52.9	49.2	49.2	0.02	0.03	0.18	0.22
1	4	-2.53	2.11	-16.6	139.1	52.9	49.2	49.2	0.02	0.04	0.32	0.36
2	5	-1.72	-3.17	-16.2	117.7	39.1	41.1	41.1	0.01	0.08	0.38	0.41
2	6	-1.73	-1.85	-5.0	117.7	39.1	41.1	41.1	0.01	0.05	0.11	0.14
2	7	-1.75	-1.16	1.7	117.7	39.1	41.1	41.1	0.01	0.03	0.06	0.03
2	8	-1.76	-0.47	5.3	117.7	39.1	41.1	41.1	0.01	0.01	0.14	0.12
3	9	-1.66	-0.71	5.4	117.7	39.1	41.1	41.1	0.01	0.02	0.14	0.12
3	10	-1.65	-0.03	7.0	117.7	39.1	41.1	16.6	0.01	0.00	0.18	0.39
3	11	-1.63	0.66	5.6	117.7	39.1	41.1	16.6	0.01	0.02	0.15	0.31
3	12	-1.62	1.35	1.1	117.7	39.1	41.1	41.1	0.01	0.03	0.04	0.01
4	13	-1.70	-0.46	0.7	139.1	52.9	49.2	49.2	0.01	0.01	0.03	0.00
4	14	-1.67	-0.11	1.7	139.1	52.9	49.2	38.4	0.01	0.00	0.05	0.03
4	15	-1.63	0.25	1.5	139.1	52.9	49.2	38.4	0.01	0.00	0.04	0.02
4	16	-1.60	0.60	0.0	139.1	52.9	38.4	49.2	0.01	0.01	0.01	0.01

LOAD COMBINATION : 38 0.60DL-LW2+LWIND2_R2E

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	-1.76	1.12	0.0	139.1	52.9	49.2	49.2	0.01	0.02	0.01	0.01
1	2	-1.79	1.48	-4.5	139.1	52.9	49.2	49.2	0.01	0.03	0.08	0.11
1	3	-1.82	1.83	-10.3	139.1	52.9	49.2	49.2	0.01	0.03	0.20	0.22
1	4	-1.85	2.18	-17.3	139.1	52.9	49.2	49.2	0.01	0.04	0.34	0.37
2	5	-1.73	-2.71	-17.1	117.7	39.1	41.1	41.1	0.01	0.07	0.40	0.43
2	6	-1.74	-2.02	-6.6	117.7	39.1	41.1	41.1	0.01	0.05	0.15	0.17
2	7	-1.76	-1.33	0.9	117.7	39.1	41.1	39.6	0.01	0.03	0.04	0.01
2	8	-1.77	-0.64	5.3	117.7	39.1	41.1	41.1	0.02	0.02	0.14	0.12
3	9	-1.64	-0.89	5.4	117.7	39.1	41.1	41.1	0.01	0.02	0.14	0.12
3	10	-1.63	-0.20	7.8	117.7	39.1	41.1	16.5	0.01	0.01	0.20	0.44
3	11	-1.61	0.49	7.2	117.7	39.1	41.1	16.5	0.01	0.01	0.19	0.40
3	12	-1.60	1.81	2.0	117.7	39.1	41.1	41.1	0.01	0.05	0.06	0.04
4	13	-2.37	-0.39	1.5	139.1	52.9	49.2	49.2	0.02	0.01	0.05	0.01
4	14	-2.34	-0.04	2.2	139.1	52.9	49.2	39.8	0.02	0.00	0.06	0.04
4	15	-2.31	0.32	1.7	139.1	52.9	49.2	39.8	0.02	0.01	0.05	0.02
4	16	-2.28	0.67	0.0	139.1	52.9	39.8	49.2	0.02	0.01	0.02	0.02

LOAD COMBINATION : 39 1.03DL+1.03CL+0.70SEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
										Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.04	-0.17	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
1	2	0.99	-0.17	0.6	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
1	3	0.93	-0.17	1.2	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.03
1	4	0.88	-0.17	1.8	106.2	52.9	49.2	49.2	0.01	0.00	0.03	0.04
2	5	0.37	0.73	1.6	89.2	39.1	41.1	41.1	0.00	0.02	0.03	0.04
2	6	0.34	0.44	-1.0	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
2	7	0.32	0.16	-2.4	70.9	39.1	35.0	41.1	0.00	0.00	0.07	0.05
2	8	0.29	-0.12	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	9	0.31	-0.09	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	10	0.34	-0.37	-1.5	70.9	39.1	41.1	41.1	0.00	0.01	0.04	0.03
3	11	0.36	-0.66	0.8	70.9	39.1	41.1	29.2	0.01	0.02	0.02	0.03
3	12	0.38	-0.94	4.4	89.2	39.1	41.1	41.1	0.00	0.02	0.10	0.11
4	13	1.09	0.44	4.6	106.2	52.9	49.2	49.2	0.01	0.01	0.08	0.10
4	14	1.14	0.44	3.1	54.6	52.9	49.2	49.2	0.02	0.01	0.04	0.07

4	15	1.20	0.44	1.5	54.6	52.9	49.2	49.2	0.02	0.01	0.01	0.04
4	16	1.25	0.44	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01

LOAD COMBINATION : 40 1.03DL+1.03CL-0.70SEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.25	-0.44	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01
1	2	1.20	-0.44	1.5	54.6	52.9	49.2	49.2	0.02	0.01	0.01	0.04
1	3	1.14	-0.44	3.1	54.6	52.9	49.2	49.2	0.02	0.01	0.04	0.07
1	4	1.09	-0.44	4.6	106.2	52.9	49.2	49.2	0.01	0.01	0.08	0.10
2	5	0.38	0.94	4.4	89.2	39.1	41.1	41.1	0.00	0.02	0.10	0.11
2	6	0.36	0.66	0.8	70.9	39.1	41.1	29.2	0.01	0.02	0.02	0.03
2	7	0.34	0.37	-1.5	70.9	39.1	41.1	41.1	0.00	0.01	0.04	0.03
2	8	0.31	0.09	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	9	0.29	0.12	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	10	0.32	-0.16	-2.4	70.9	39.1	35.0	41.1	0.00	0.00	0.07	0.05
3	11	0.34	-0.44	-1.0	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
3	12	0.37	-0.73	1.6	89.2	39.1	41.1	41.1	0.00	0.02	0.03	0.04
4	13	0.88	0.17	1.8	106.2	52.9	49.2	49.2	0.01	0.00	0.03	0.04
4	14	0.93	0.17	1.2	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.03
4	15	0.99	0.17	0.6	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
4	16	1.04	0.17	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.02	0.01

LOAD COMBINATION : 41 1.02DL+1.02CL+0.75LL+0.52SEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	6.68	-1.98	0.0	54.6	52.9	49.2	49.2	0.12	0.04	0.06	0.12
1	2	6.62	-1.98	6.9	54.6	52.9	49.2	49.2	0.12	0.04	0.02	0.18
1	3	6.57	-1.98	13.9	54.6	52.9	49.2	49.2	0.12	0.04	0.16	0.32
1	4	6.52	-1.98	20.8	106.2	52.9	49.2	49.2	0.06	0.04	0.36	0.45
2	5	2.56	5.64	19.4	89.2	39.1	41.1	41.1	0.03	0.14	0.44	0.49
2	6	2.40	3.69	-1.4	70.9	39.1	41.1	41.1	0.03	0.09	0.05	0.00
2	7	2.23	1.75	-13.6	70.9	39.1	37.6	41.1	0.03	0.04	0.38	0.30
2	8	2.07	-0.20	-17.1	90.9	39.1	41.1	41.1	0.02	0.00	0.43	0.39
3	9	2.09	0.03	-17.0	90.9	39.1	41.1	41.1	0.02	0.00	0.43	0.39
3	10	2.25	-1.91	-12.8	70.9	39.1	38.4	41.1	0.03	0.05	0.35	0.28

1	3	0.47	-0.03	0.2	54.6	52.9	49.2	49.2	0.01	0.00	0.00	0.01
1	4	0.44	-0.03	0.4	106.2	52.9	49.2	49.2	0.00	0.00	0.00	0.01
2	5	0.20	0.36	0.2	89.2	39.1	41.1	41.1	0.00	0.01	0.00	0.01
2	6	0.19	0.20	-1.0	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
2	7	0.17	0.04	-1.5	70.9	39.1	34.3	41.1	0.00	0.00	0.05	0.03
2	8	0.16	-0.11	-1.4	90.9	39.1	41.1	41.1	0.00	0.00	0.03	0.03
3	9	0.18	-0.10	-1.4	90.9	39.1	41.1	41.1	0.00	0.00	0.03	0.03
3	10	0.19	-0.25	-0.6	70.9	39.1	41.1	41.1	0.00	0.01	0.02	0.01
3	11	0.20	-0.41	0.9	70.9	39.1	41.1	36.0	0.00	0.01	0.02	0.03
3	12	0.22	-0.57	3.1	89.2	39.1	41.1	41.1	0.00	0.01	0.07	0.08
4	13	0.65	0.30	3.2	106.2	52.9	49.2	49.2	0.01	0.01	0.06	0.07
4	14	0.68	0.30	2.1	54.6	52.9	49.2	49.2	0.01	0.01	0.03	0.05
4	15	0.71	0.30	1.1	54.6	52.9	49.2	49.2	0.01	0.01	0.01	0.03
4	16	0.74	0.30	0.0	54.6	52.9	49.2	49.2	0.01	0.01	0.01	0.01

LOAD COMBINATION : 46 0.57DL-0.70SEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial	Shear	Moment	Axial	Shear	Bend-O	Bend-I	Axial	Shear	O-f	I-f
		Pr	Vr	Mr	Pn/sf	Vn/sf	MnO/sf	MnI/sf	UcA	UcV	UcO	UcI
1	1	0.74	-0.30	0.0	54.6	52.9	49.2	49.2	0.01	0.01	0.01	0.01
1	2	0.71	-0.30	1.1	54.6	52.9	49.2	49.2	0.01	0.01	0.01	0.03
1	3	0.68	-0.30	2.1	54.6	52.9	49.2	49.2	0.01	0.01	0.03	0.05
1	4	0.65	-0.30	3.2	106.2	52.9	49.2	49.2	0.01	0.01	0.06	0.07
2	5	0.22	0.57	3.1	89.2	39.1	41.1	41.1	0.00	0.01	0.07	0.08
2	6	0.20	0.41	0.9	70.9	39.1	41.1	36.0	0.00	0.01	0.02	0.03
2	7	0.19	0.25	-0.6	70.9	39.1	41.1	41.1	0.00	0.01	0.02	0.01
2	8	0.18	0.10	-1.4	90.9	39.1	41.1	41.1	0.00	0.00	0.03	0.03
3	9	0.16	0.11	-1.4	90.9	39.1	41.1	41.1	0.00	0.00	0.03	0.03
3	10	0.17	-0.04	-1.5	70.9	39.1	34.3	41.1	0.00	0.00	0.05	0.03
3	11	0.19	-0.20	-1.0	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
3	12	0.20	-0.36	0.2	89.2	39.1	41.1	41.1	0.00	0.01	0.00	0.01
4	13	0.44	0.03	0.4	106.2	52.9	49.2	49.2	0.00	0.00	0.00	0.01
4	14	0.47	0.03	0.2	54.6	52.9	49.2	49.2	0.01	0.00	0.00	0.01
4	15	0.50	0.03	0.1	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.01
4	16	0.53	0.03	0.0	54.6	52.9	49.2	49.2	0.01	0.00	0.00	0.01

LOAD COMBINATION : 47 1.03DL+1.03CL+0.70LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	Axl+Bend O-f UcO	Axl+Bend I-f UcI
1	1	0.89	0.02	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
1	2	0.83	0.02	-0.1	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.01
1	3	0.78	0.02	-0.1	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.01
1	4	0.73	0.02	-0.2	106.2	52.9	49.2	49.2	0.01	0.00	0.01	0.00
2	5	0.35	0.58	-0.4	89.2	39.1	41.1	41.1	0.00	0.01	0.01	0.01
2	6	0.33	0.29	-2.4	70.9	39.1	39.0	41.1	0.00	0.01	0.06	0.05
2	7	0.31	0.01	-3.1	70.9	39.1	34.5	41.1	0.00	0.00	0.09	0.07
2	8	0.28	-0.27	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	9	0.32	-0.24	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	10	0.35	-0.52	-0.8	70.9	39.1	41.1	41.1	0.00	0.01	0.02	0.01
3	11	0.37	-0.81	2.2	70.9	39.1	41.1	41.1	0.01	0.02	0.05	0.06
3	12	0.40	-1.09	6.4	89.2	39.1	41.1	41.1	0.00	0.03	0.15	0.16
4	13	1.24	0.63	6.6	106.2	52.9	49.2	49.2	0.01	0.01	0.12	0.14
4	14	1.29	0.63	4.4	54.6	52.9	49.2	49.2	0.02	0.01	0.07	0.10
4	15	1.35	0.63	2.2	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
4	16	1.40	0.63	0.0	54.6	52.9	49.2	49.2	0.03	0.01	0.01	0.03

LOAD COMBINATION : 48 1.03DL+1.03CL-0.70LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)			UNITY_CHECKS			
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	Axl+Bend O-f UcO	Axl+Bend I-f UcI
1	1	1.72	-0.63	0.0	54.6	52.9	49.2	49.2	0.03	0.01	0.03	0.02
1	2	1.66	-0.63	2.2	54.6	52.9	49.2	49.2	0.03	0.01	0.01	0.05
1	3	1.61	-0.63	4.4	54.6	52.9	49.2	49.2	0.03	0.01	0.06	0.10
1	4	1.55	-0.63	6.6	106.2	52.9	49.2	49.2	0.01	0.01	0.12	0.14
2	5	0.39	1.09	6.4	89.2	39.1	41.1	41.1	0.00	0.03	0.15	0.16
2	6	0.37	0.81	2.2	70.9	39.1	41.1	41.1	0.01	0.02	0.05	0.06
2	7	0.35	0.52	-0.8	70.9	39.1	41.1	41.1	0.00	0.01	0.02	0.01
2	8	0.32	0.24	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	9	0.28	0.27	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	10	0.31	-0.01	-3.1	70.9	39.1	34.5	41.1	0.00	0.00	0.09	0.07
3	11	0.33	-0.29	-2.4	70.9	39.1	39.0	41.1	0.00	0.01	0.06	0.05
3	12	0.35	-0.58	-0.4	89.2	39.1	41.1	41.1	0.00	0.01	0.01	0.01
4	13	0.73	-0.02	-0.2	106.2	52.9	49.2	49.2	0.01	0.00	0.01	0.00
4	14	0.78	-0.02	-0.1	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.01

4	15	0.83	-0.02	-0.1	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.01
4	16	0.89	-0.02	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02

LOAD COMBINATION : 49 1.02DL+1.02CL+0.75LL+0.52LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	6.56	-1.84	0.0	54.6	52.9	49.2	49.2	0.12	0.03	0.06	0.12
1	2	6.51	-1.84	6.4	54.6	52.9	49.2	49.2	0.12	0.03	0.01	0.17
1	3	6.45	-1.84	12.8	54.6	52.9	49.2	49.2	0.12	0.03	0.14	0.30
1	4	6.40	-1.84	19.3	106.2	52.9	49.2	49.2	0.06	0.03	0.33	0.42
2	5	2.55	5.52	17.8	89.2	39.1	41.1	41.1	0.03	0.14	0.40	0.45
2	6	2.39	3.58	-2.5	70.9	39.1	41.1	41.1	0.03	0.09	0.07	0.03
2	7	2.23	1.63	-14.1	70.9	39.1	37.0	41.1	0.03	0.04	0.39	0.31
2	8	2.06	-0.31	-17.1	90.9	39.1	41.1	41.1	0.02	0.01	0.43	0.39
3	9	2.10	-0.08	-17.0	90.9	39.1	41.1	41.1	0.02	0.00	0.43	0.39
3	10	2.26	-2.03	-12.3	70.9	39.1	39.0	41.1	0.03	0.05	0.33	0.27
3	11	2.42	-3.97	1.1	70.9	39.1	41.1	27.1	0.03	0.10	0.01	0.05
3	12	2.58	-5.92	23.2	89.2	39.1	41.1	41.1	0.03	0.15	0.53	0.58
4	13	6.80	2.34	24.5	106.2	52.9	49.2	49.2	0.06	0.04	0.43	0.53
4	14	6.85	2.34	16.4	54.6	52.9	49.2	49.2	0.13	0.04	0.21	0.37
4	15	6.90	2.34	8.2	54.6	52.9	49.2	49.2	0.13	0.04	0.04	0.21
4	16	6.96	2.34	0.0	54.6	52.9	49.2	49.2	0.13	0.04	0.13	0.06

LOAD COMBINATION : 50 1.02DL+1.02CL+0.75LL-0.52LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	7.19	-2.34	0.0	54.6	52.9	49.2	49.2	0.13	0.04	0.13	0.07
1	2	7.14	-2.34	8.2	54.6	52.9	49.2	49.2	0.13	0.04	0.04	0.21
1	3	7.08	-2.34	16.4	54.6	52.9	49.2	49.2	0.13	0.04	0.20	0.37
1	4	7.03	-2.34	24.5	106.2	52.9	49.2	49.2	0.07	0.04	0.43	0.53
2	5	2.58	5.92	23.2	89.2	39.1	41.1	41.1	0.03	0.15	0.53	0.58
2	6	2.42	3.97	1.1	70.9	39.1	41.1	27.1	0.03	0.10	0.01	0.05
2	7	2.26	2.03	-12.3	70.9	39.1	39.1	41.1	0.03	0.05	0.33	0.27
2	8	2.10	0.08	-17.0	90.9	39.1	41.1	41.1	0.02	0.00	0.43	0.39
3	9	2.06	0.31	-17.1	90.9	39.1	41.1	41.1	0.02	0.01	0.43	0.39
3	10	2.22	-1.63	-14.1	70.9	39.1	37.0	41.1	0.03	0.04	0.39	0.31

3	11	2.39	-3.58	-2.5	70.9	39.1	41.1	41.1	0.03	0.09	0.07	0.03
3	12	2.55	-5.52	17.8	89.2	39.1	41.1	41.1	0.03	0.14	0.40	0.45
4	13	6.40	1.83	19.3	106.2	52.9	49.2	49.2	0.06	0.03	0.33	0.42
4	14	6.45	1.83	12.8	54.6	52.9	49.2	49.2	0.12	0.03	0.14	0.30
4	15	6.51	1.83	6.4	54.6	52.9	49.2	49.2	0.12	0.03	0.01	0.17
4	16	6.56	1.83	0.0	54.6	52.9	49.2	49.2	0.12	0.03	0.12	0.06

LOAD COMBINATION : 51 1.02DL+1.02CL+0.52LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	0.94	-0.06	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
1	2	0.89	-0.06	0.2	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.01
1	3	0.84	-0.06	0.4	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
1	4	0.78	-0.06	0.6	106.2	52.9	49.2	49.2	0.01	0.00	0.01	0.02
2	5	0.35	0.64	0.4	89.2	39.1	41.1	41.1	0.00	0.02	0.01	0.01
2	6	0.33	0.36	-1.8	70.9	39.1	41.1	41.1	0.00	0.01	0.05	0.04
2	7	0.31	0.07	-2.8	70.9	39.1	34.3	41.1	0.00	0.00	0.08	0.06
2	8	0.28	-0.21	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	9	0.32	-0.17	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	10	0.34	-0.45	-1.1	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
3	11	0.36	-0.73	1.6	70.9	39.1	41.1	36.2	0.01	0.02	0.03	0.05
3	12	0.39	-1.02	5.5	89.2	39.1	41.1	41.1	0.00	0.03	0.13	0.14
4	13	1.16	0.54	5.7	106.2	52.9	49.2	49.2	0.01	0.01	0.10	0.12
4	14	1.22	0.54	3.8	54.6	52.9	49.2	49.2	0.02	0.01	0.05	0.08
4	15	1.27	0.54	1.9	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.05
4	16	1.32	0.54	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01

LOAD COMBINATION : 52 1.02DL+1.02CL-0.52LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.56	-0.54	0.0	54.6	52.9	49.2	49.2	0.03	0.01	0.03	0.01
1	2	1.50	-0.54	1.9	54.6	52.9	49.2	49.2	0.03	0.01	0.01	0.05
1	3	1.45	-0.54	3.8	54.6	52.9	49.2	49.2	0.03	0.01	0.05	0.09
1	4	1.40	-0.54	5.7	106.2	52.9	49.2	49.2	0.01	0.01	0.10	0.12
2	5	0.39	1.02	5.5	89.2	39.1	41.1	41.1	0.00	0.03	0.13	0.14
2	6	0.36	0.73	1.6	70.9	39.1	41.1	36.2	0.01	0.02	0.03	0.05

2	7	0.34	0.45	-1.1	70.9	39.1	41.1	41.1	0.00	0.01	0.03	0.02
2	8	0.32	0.17	-2.5	90.9	39.1	41.1	41.1	0.00	0.00	0.06	0.06
3	9	0.28	0.21	-2.5	90.9	39.1	41.1	41.1	0.00	0.01	0.06	0.06
3	10	0.31	-0.07	-2.8	70.9	39.1	34.3	41.1	0.00	0.00	0.08	0.06
3	11	0.33	-0.35	-1.8	70.9	39.1	41.1	41.1	0.00	0.01	0.05	0.04
3	12	0.35	-0.64	0.4	89.2	39.1	41.1	41.1	0.00	0.02	0.01	0.01
4	13	0.78	0.06	0.6	106.2	52.9	49.2	49.2	0.01	0.00	0.01	0.02
4	14	0.84	0.06	0.4	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02
4	15	0.89	0.06	0.2	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.01
4	16	0.94	0.06	0.0	54.6	52.9	49.2	49.2	0.02	0.00	0.01	0.02

LOAD COMBINATION : 53 0.57DL+0.70LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	0.38	0.15	0.0	54.6	52.9	49.2	49.2	0.01	0.00	0.00	0.01
1	2	0.35	0.15	-0.5	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.00
1	3	0.32	0.15	-1.1	54.6	52.9	49.2	49.2	0.01	0.00	0.02	0.02
1	4	0.29	0.15	-1.6	106.2	52.9	49.2	49.2	0.00	0.00	0.03	0.03
2	5	0.19	0.21	-1.8	89.2	39.1	41.1	41.1	0.00	0.01	0.04	0.04
2	6	0.17	0.05	-2.3	70.9	39.1	34.3	41.1	0.00	0.00	0.07	0.05
2	7	0.16	-0.11	-2.2	70.9	39.1	37.5	41.1	0.00	0.00	0.06	0.05
2	8	0.15	-0.26	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	9	0.19	-0.25	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	10	0.20	-0.40	0.1	70.9	39.1	41.1	37.8	0.00	0.01	0.00	0.00
3	11	0.21	-0.56	2.2	70.9	39.1	41.1	37.8	0.00	0.01	0.05	0.06
3	12	0.23	-0.72	5.1	89.2	39.1	41.1	41.1	0.00	0.02	0.12	0.12
4	13	0.80	0.49	5.2	106.2	52.9	49.2	49.2	0.01	0.01	0.10	0.11
4	14	0.83	0.49	3.4	54.6	52.9	49.2	49.2	0.02	0.01	0.05	0.07
4	15	0.86	0.49	1.7	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.04
4	16	0.89	0.49	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01

LOAD COMBINATION : 54 0.57DL-0.70LSEIS

		WORKING_LOAD (k ,f-k)			ALLOWABLE STRENGTH (k ,f-k)				UNITY_CHECKS			
											Axl+Bend	
Sn	Id	Axial Pr	Shear Vr	Moment Mr	Axial Pn/sf	Shear Vn/sf	Bend-O MnO/sf	Bend-I MnI/sf	Axial UcA	Shear UcV	O-f UcO	I-f UcI
1	1	1.20	-0.49	0.0	54.6	52.9	49.2	49.2	0.02	0.01	0.02	0.01
1	2	1.17	-0.49	1.7	54.6	52.9	49.2	49.2	0.02	0.01	0.01	0.04

1	3	1.14	-0.49	3.4	54.6	52.9	49.2	49.2	0.02	0.01	0.05	0.08
1	4	1.11	-0.49	5.2	106.2	52.9	49.2	49.2	0.01	0.01	0.09	0.11
2	5	0.23	0.72	5.1	89.2	39.1	41.1	41.1	0.00	0.02	0.12	0.12
2	6	0.21	0.56	2.2	70.9	39.1	41.1	37.8	0.00	0.01	0.05	0.06
2	7	0.20	0.40	0.1	70.9	39.1	41.1	37.8	0.00	0.01	0.00	0.00
2	8	0.19	0.25	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	9	0.15	0.26	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	10	0.16	0.11	-2.2	70.9	39.1	37.5	41.1	0.00	0.00	0.06	0.05
3	11	0.17	-0.05	-2.3	70.9	39.1	34.3	41.1	0.00	0.00	0.07	0.05
3	12	0.19	-0.21	-1.8	89.2	39.1	41.1	41.1	0.00	0.01	0.04	0.04
4	13	0.29	-0.16	-1.6	106.2	52.9	49.2	49.2	0.00	0.00	0.03	0.03
4	14	0.32	-0.16	-1.1	54.6	52.9	49.2	49.2	0.01	0.00	0.02	0.02
4	15	0.35	-0.16	-0.5	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.00
4	16	0.38	-0.16	0.0	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.00

LOAD COMBINATION : 1 DL+CL+LL

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.6	0.0								
1	2	8.5	-2.6	9.3								
1	3	8.5	-2.6	18.5								
1	4	8.4	-2.6	27.8								
2	5	3.3	7.3	26.0								
2	6	3.1	4.8	-1.1								
2	7	2.9	2.3	-17.0								
2	8	2.7	-0.2	-21.9								
3	9	2.7	0.1	-21.9								
3	10	2.9	-2.4	-16.9								
3	11	3.1	-4.9	-0.7								
3	12	3.3	-7.4	26.6								
4	13	8.5	2.7	28.4								
4	14	8.5	2.7	18.9								
4	15	8.6	2.7	9.5								
4	16	8.6	2.7	0.0								

LOAD COMBINATION : 2 DL+CL+LL

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								
3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 3 DL+CL+SL

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.6	0.0								
1	2	8.5	-2.6	9.3								
1	3	8.5	-2.6	18.5								
1	4	8.4	-2.6	27.8								
2	5	3.3	7.3	26.0								
2	6	3.1	4.8	-1.1								
2	7	2.9	2.3	-17.0								
2	8	2.7	-0.2	-21.9								
3	9	2.7	0.1	-21.9								
3	10	2.9	-2.4	-16.9								
3	11	3.1	-4.9	-0.7								
3	12	3.3	-7.4	26.6								
4	13	8.5	2.7	28.4								
4	14	8.5	2.7	18.9								

1	3	1.14	-0.49	3.4	54.6	52.9	49.2	49.2	0.02	0.01	0.05	0.08
1	4	1.11	-0.49	5.2	106.2	52.9	49.2	49.2	0.01	0.01	0.09	0.11
2	5	0.23	0.72	5.1	89.2	39.1	41.1	41.1	0.00	0.02	0.12	0.12
2	6	0.21	0.56	2.2	70.9	39.1	41.1	37.8	0.00	0.01	0.05	0.06
2	7	0.20	0.40	0.1	70.9	39.1	41.1	37.8	0.00	0.01	0.00	0.00
2	8	0.19	0.25	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	9	0.15	0.26	-1.4	90.9	39.1	41.1	41.1	0.00	0.01	0.03	0.03
3	10	0.16	0.11	-2.2	70.9	39.1	37.5	41.1	0.00	0.00	0.06	0.05
3	11	0.17	-0.05	-2.3	70.9	39.1	34.3	41.1	0.00	0.00	0.07	0.05
3	12	0.19	-0.21	-1.8	89.2	39.1	41.1	41.1	0.00	0.01	0.04	0.04
4	13	0.29	-0.16	-1.6	106.2	52.9	49.2	49.2	0.00	0.00	0.03	0.03
4	14	0.32	-0.16	-1.1	54.6	52.9	49.2	49.2	0.01	0.00	0.02	0.02
4	15	0.35	-0.16	-0.5	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.00
4	16	0.38	-0.16	0.0	54.6	52.9	49.2	49.2	0.01	0.00	0.01	0.00

LOAD COMBINATION : 1 DL+CL+LL

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.6	0.0								
1	2	8.5	-2.6	9.3								
1	3	8.5	-2.6	18.5								
1	4	8.4	-2.6	27.8								
2	5	3.3	7.3	26.0								
2	6	3.1	4.8	-1.1								
2	7	2.9	2.3	-17.0								
2	8	2.7	-0.2	-21.9								
3	9	2.7	0.1	-21.9								
3	10	2.9	-2.4	-16.9								
3	11	3.1	-4.9	-0.7								
3	12	3.3	-7.4	26.6								
4	13	8.5	2.7	28.4								
4	14	8.5	2.7	18.9								
4	15	8.6	2.7	9.5								
4	16	8.6	2.7	0.0								

LOAD COMBINATION : 2 DL+CL+LL

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								
3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 3 DL+CL+SL

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.6	0.0								
1	2	8.5	-2.6	9.3								
1	3	8.5	-2.6	18.5								
1	4	8.4	-2.6	27.8								
2	5	3.3	7.3	26.0								
2	6	3.1	4.8	-1.1								
2	7	2.9	2.3	-17.0								
2	8	2.7	-0.2	-21.9								
3	9	2.7	0.1	-21.9								
3	10	2.9	-2.4	-16.9								
3	11	3.1	-4.9	-0.7								
3	12	3.3	-7.4	26.6								
4	13	8.5	2.7	28.4								
4	14	8.5	2.7	18.9								

4	15	8.6	2.7	9.5
4	16	8.6	2.7	0.0

LOAD COMBINATION : 4 DL+CL+SL

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								
3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 5 DL+CL+SL+Drift

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								

3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 6 DL+CL+SL+Drift

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								
3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 7 DL+CL+SL+Slide

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								

2	7	2.9	2.4	-16.9
2	8	2.7	-0.1	-21.9
3	9	2.7	0.2	-21.9
3	10	2.9	-2.3	-17.0
3	11	3.1	-4.8	-1.1
3	12	3.3	-7.3	26.0
4	13	8.4	2.6	27.8
4	14	8.5	2.6	18.5
4	15	8.5	2.6	9.3
4	16	8.6	2.6	0.0

LOAD COMBINATION : 8 DL+CL+SL+Slide

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	8.6	-2.7	0.0								
1	2	8.6	-2.7	9.5								
1	3	8.5	-2.7	18.9								
1	4	8.5	-2.7	28.4								
2	5	3.3	7.4	26.6								
2	6	3.1	4.9	-0.7								
2	7	2.9	2.4	-16.9								
2	8	2.7	-0.1	-21.9								
3	9	2.7	0.2	-21.9								
3	10	2.9	-2.3	-17.0								
3	11	3.1	-4.8	-1.1								
3	12	3.3	-7.3	26.0								
4	13	8.4	2.6	27.8								
4	14	8.5	2.6	18.5								
4	15	8.5	2.6	9.3								
4	16	8.6	2.6	0.0								

LOAD COMBINATION : 9 DL

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.1	-0.3	0.0								
1	2	1.1	-0.3	1.0								

1	3	1.0	-0.3	2.0
1	4	1.0	-0.3	3.1
2	5	0.4	0.8	2.9
2	6	0.3	0.5	-0.1
2	7	0.3	0.3	-1.9
2	8	0.3	0.0	-2.4
3	9	0.3	0.0	-2.4
3	10	0.3	-0.3	-1.9
3	11	0.3	-0.5	-0.1
3	12	0.4	-0.8	2.9
4	13	1.0	0.3	3.1
4	14	1.0	0.3	2.1
4	15	1.1	0.3	1.0
4	16	1.1	0.3	0.0

LOAD COMBINATION : 10 DL

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.1	-0.3	0.0								
1	2	1.1	-0.3	1.0								
1	3	1.0	-0.3	2.1								
1	4	1.0	-0.3	3.1								
2	5	0.4	0.8	2.9								
2	6	0.3	0.5	-0.1								
2	7	0.3	0.3	-1.9								
2	8	0.3	0.0	-2.4								
3	9	0.3	0.0	-2.4								
3	10	0.3	-0.3	-1.9								
3	11	0.3	-0.5	-0.1								
3	12	0.4	-0.8	2.9								
4	13	1.0	0.3	3.1								
4	14	1.0	0.3	2.0								
4	15	1.1	0.3	1.0								
4	16	1.1	0.3	0.0								

LOAD COMBINATION : 11 DL+CL+0.75LL+0.52WL1

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	4.0	-0.7	0.0								
1	2	4.0	-0.9	2.7								
1	3	3.9	-1.0	6.0								
1	4	3.9	-1.2	9.9								
2	5	1.5	3.3	9.0								
2	6	1.4	2.1	-3.2								
2	7	1.2	1.0	-10.1								
2	8	1.1	-0.2	-11.8								
3	9	1.1	-0.1	-11.8								
3	10	1.2	-1.6	-8.1								
3	11	1.4	-3.0	2.2								
3	12	1.6	-4.5	18.9								
4	13	5.1	1.4	20.1								
4	14	5.2	1.7	14.6								
4	15	5.2	2.1	7.9								
4	16	5.3	2.4	0.0								

LOAD COMBINATION : 12 DL+CL+0.75LL+0.52WR1

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.3	-2.4	0.0								
1	2	5.2	-2.1	7.9								
1	3	5.2	-1.7	14.6								
1	4	5.1	-1.4	20.1								
2	5	1.6	4.5	18.9								
2	6	1.4	3.0	2.2								
2	7	1.2	1.6	-8.1								
2	8	1.1	0.1	-11.8								
3	9	1.1	0.2	-11.8								
3	10	1.2	-1.0	-10.1								
3	11	1.4	-2.1	-3.2								
3	12	1.5	-3.3	9.0								
4	13	3.9	1.2	9.9								
4	14	3.9	1.0	6.0								

4	15	4.0	0.9	2.7								
4	16	4.0	0.7	0.0								

LOAD COMBINATION : 13 DL+CL+0.75LL+0.52WL2

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.1	-0.6	0.0								
1	2	5.0	-1.0	2.8								
1	3	5.0	-1.5	7.2								
1	4	4.9	-1.9	13.1								
2	5	2.5	4.2	12.2								
2	6	2.3	2.7	-3.2								
2	7	2.2	1.2	-11.9								
2	8	2.0	-0.3	-14.0								
3	9	2.0	0.0	-14.0								
3	10	2.2	-1.8	-9.9								
3	11	2.3	-3.6	2.2								
3	12	2.5	-5.4	22.2								
4	13	6.2	2.1	23.4								
4	14	6.2	2.2	15.9								
4	15	6.3	2.3	8.1								
4	16	6.3	2.4	0.0								

LOAD COMBINATION : 14 DL+CL+0.75LL+0.52WR2

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.3	-2.4	0.0								
1	2	6.3	-2.3	8.1								
1	3	6.2	-2.2	15.9								
1	4	6.2	-2.1	23.4								
2	5	2.5	5.4	22.2								
2	6	2.3	3.6	2.2								
2	7	2.2	1.8	-9.9								
2	8	2.0	0.0	-14.0								
3	9	2.0	0.3	-14.0								
3	10	2.2	-1.2	-11.9								

3	11	2.3	-2.7	-3.2									
3	12	2.5	-4.2	12.2									
4	13	4.9	1.9	13.1									
4	14	5.0	1.5	7.2									
4	15	5.0	1.0	2.8									
4	16	5.1	0.6	0.0									

LOAD COMBINATION : 15 DL+CL+0.75SL+0.52WL1

		SERVICE_LOAD (k ,f-k)											
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci	
1	1	4.0	-0.7	0.0									
1	2	4.0	-0.9	2.7									
1	3	3.9	-1.0	6.0									
1	4	3.9	-1.2	9.9									
2	5	1.5	3.3	9.0									
2	6	1.4	2.1	-3.2									
2	7	1.2	1.0	-10.1									
2	8	1.1	-0.2	-11.8									
3	9	1.1	-0.1	-11.8									
3	10	1.2	-1.6	-8.1									
3	11	1.4	-3.0	2.2									
3	12	1.6	-4.5	18.9									
4	13	5.1	1.4	20.1									
4	14	5.2	1.7	14.6									
4	15	5.2	2.1	7.9									
4	16	5.3	2.4	0.0									

LOAD COMBINATION : 16 DL+CL+0.75SL+0.52WL1+0.75Drift

		SERVICE_LOAD (k ,f-k)											
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci	
1	1	4.0	-0.7	0.0									
1	2	4.0	-0.9	2.7									
1	3	3.9	-1.0	6.0									
1	4	3.9	-1.2	9.9									
2	5	1.5	3.3	9.0									
2	6	1.4	2.1	-3.2									

2	7	1.2	1.0	-10.1
2	8	1.1	-0.2	-11.8
3	9	1.1	-0.1	-11.8
3	10	1.2	-1.6	-8.1
3	11	1.4	-3.0	2.2
3	12	1.6	-4.5	18.9
4	13	5.1	1.4	20.1
4	14	5.2	1.7	14.6
4	15	5.2	2.1	7.9
4	16	5.3	2.4	0.0

LOAD COMBINATION : 17 DL+CL+0.75SL+0.52WL1+0.75Slide

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	4.0	-0.7	0.0								
1	2	4.0	-0.9	2.7								
1	3	3.9	-1.0	6.0								
1	4	3.9	-1.2	9.9								
2	5	1.5	3.3	9.0								
2	6	1.4	2.1	-3.2								
2	7	1.2	1.0	-10.1								
2	8	1.1	-0.2	-11.8								
3	9	1.1	-0.1	-11.8								
3	10	1.2	-1.6	-8.1								
3	11	1.4	-3.0	2.2								
3	12	1.6	-4.5	18.9								
4	13	5.1	1.4	20.1								
4	14	5.2	1.7	14.6								
4	15	5.2	2.1	7.9								
4	16	5.3	2.4	0.0								

LOAD COMBINATION : 18 DL+CL+0.75SL+0.52WR1

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.3	-2.4	0.0								
1	2	5.2	-2.1	7.9								

1	3	5.2	-1.7	14.6
1	4	5.1	-1.4	20.1
2	5	1.6	4.5	18.9
2	6	1.4	3.0	2.2
2	7	1.2	1.6	-8.1
2	8	1.1	0.1	-11.8
3	9	1.1	0.2	-11.8
3	10	1.2	-1.0	-10.1
3	11	1.4	-2.1	-3.2
3	12	1.5	-3.3	9.0
4	13	3.9	1.2	9.9
4	14	3.9	1.0	6.0
4	15	4.0	0.9	2.7
4	16	4.0	0.7	0.0

LOAD COMBINATION : 19 DL+CL+0.75SL+0.52WR1+0.75Drift

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.3	-2.4	0.0								
1	2	5.2	-2.1	7.9								
1	3	5.2	-1.7	14.6								
1	4	5.1	-1.4	20.1								
2	5	1.6	4.5	18.9								
2	6	1.4	3.0	2.2								
2	7	1.2	1.6	-8.1								
2	8	1.1	0.1	-11.8								
3	9	1.1	0.2	-11.8								
3	10	1.2	-1.0	-10.1								
3	11	1.4	-2.1	-3.2								
3	12	1.5	-3.3	9.0								
4	13	3.9	1.2	9.9								
4	14	3.9	1.0	6.0								
4	15	4.0	0.9	2.7								
4	16	4.0	0.7	0.0								

LOAD COMBINATION : 20 DL+CL+0.75SL+0.52WR1+0.75Slide

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.3	-2.4	0.0								
1	2	5.2	-2.1	7.9								
1	3	5.2	-1.7	14.6								
1	4	5.1	-1.4	20.1								
2	5	1.6	4.5	18.9								
2	6	1.4	3.0	2.2								
2	7	1.2	1.6	-8.1								
2	8	1.1	0.1	-11.8								
3	9	1.1	0.2	-11.8								
3	10	1.2	-1.0	-10.1								
3	11	1.4	-2.1	-3.2								
3	12	1.5	-3.3	9.0								
4	13	3.9	1.2	9.9								
4	14	3.9	1.0	6.0								
4	15	4.0	0.9	2.7								
4	16	4.0	0.7	0.0								

LOAD COMBINATION : 21 DL+CL+0.75SL+0.52WL2

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.1	-0.6	0.0								
1	2	5.0	-1.0	2.8								
1	3	5.0	-1.5	7.2								
1	4	4.9	-1.9	13.1								
2	5	2.5	4.2	12.2								
2	6	2.3	2.7	-3.2								
2	7	2.2	1.2	-11.9								
2	8	2.0	-0.3	-14.0								
3	9	2.0	0.0	-14.0								
3	10	2.2	-1.8	-9.9								
3	11	2.3	-3.6	2.2								
3	12	2.5	-5.4	22.2								
4	13	6.2	2.1	23.4								
4	14	6.2	2.2	15.9								

4	15	6.3	2.3	8.1								
4	16	6.3	2.4	0.0								

LOAD COMBINATION : 22 DL+CL+0.75SL+0.52WL2+0.75Drift

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.1	-0.6	0.0								
1	2	5.0	-1.0	2.8								
1	3	5.0	-1.5	7.2								
1	4	4.9	-1.9	13.1								
2	5	2.5	4.2	12.2								
2	6	2.3	2.7	-3.2								
2	7	2.2	1.2	-11.9								
2	8	2.0	-0.3	-14.0								
3	9	2.0	0.0	-14.0								
3	10	2.2	-1.8	-9.9								
3	11	2.3	-3.6	2.2								
3	12	2.5	-5.4	22.2								
4	13	6.2	2.1	23.4								
4	14	6.2	2.2	15.9								
4	15	6.3	2.3	8.1								
4	16	6.3	2.4	0.0								

LOAD COMBINATION : 23 DL+CL+0.75SL+0.52WL2+0.75Slide

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	5.1	-0.6	0.0								
1	2	5.0	-1.0	2.8								
1	3	5.0	-1.5	7.2								
1	4	4.9	-1.9	13.1								
2	5	2.5	4.2	12.2								
2	6	2.3	2.7	-3.2								
2	7	2.2	1.2	-11.9								
2	8	2.0	-0.3	-14.0								
3	9	2.0	0.0	-14.0								
3	10	2.2	-1.8	-9.9								

3	11	2.3	-3.6	2.2								
3	12	2.5	-5.4	22.2								
4	13	6.2	2.1	23.4								
4	14	6.2	2.2	15.9								
4	15	6.3	2.3	8.1								
4	16	6.3	2.4	0.0								

LOAD COMBINATION : 24 DL+CL+0.75SL+0.52WR2

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.3	-2.4	0.0								
1	2	6.3	-2.3	8.1								
1	3	6.2	-2.2	15.9								
1	4	6.2	-2.1	23.4								
2	5	2.5	5.4	22.2								
2	6	2.3	3.6	2.2								
2	7	2.2	1.8	-9.9								
2	8	2.0	0.0	-14.0								
3	9	2.0	0.3	-14.0								
3	10	2.2	-1.2	-11.9								
3	11	2.3	-2.7	-3.2								
3	12	2.5	-4.2	12.2								
4	13	4.9	1.9	13.1								
4	14	5.0	1.5	7.2								
4	15	5.0	1.0	2.8								
4	16	5.1	0.6	0.0								

LOAD COMBINATION : 25 DL+CL+0.75SL+0.52WR2+0.75Drift

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.3	-2.4	0.0								
1	2	6.3	-2.3	8.1								
1	3	6.2	-2.2	15.9								
1	4	6.2	-2.1	23.4								
2	5	2.5	5.4	22.2								
2	6	2.3	3.6	2.2								

2	7	2.2	1.8	-9.9
2	8	2.0	0.0	-14.0
3	9	2.0	0.3	-14.0
3	10	2.2	-1.2	-11.9
3	11	2.3	-2.7	-3.2
3	12	2.5	-4.2	12.2
4	13	4.9	1.9	13.1
4	14	5.0	1.5	7.2
4	15	5.0	1.0	2.8
4	16	5.1	0.6	0.0

LOAD COMBINATION : 26 DL+CL+0.75SL+0.52WR2+0.75Slide

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.3	-2.4	0.0								
1	2	6.3	-2.3	8.1								
1	3	6.2	-2.2	15.9								
1	4	6.2	-2.1	23.4								
2	5	2.5	5.4	22.2								
2	6	2.3	3.6	2.2								
2	7	2.2	1.8	-9.9								
2	8	2.0	0.0	-14.0								
3	9	2.0	0.3	-14.0								
3	10	2.2	-1.2	-11.9								
3	11	2.3	-2.7	-3.2								
3	12	2.5	-4.2	12.2								
4	13	4.9	1.9	13.1								
4	14	5.0	1.5	7.2								
4	15	5.0	1.0	2.8								
4	16	5.1	0.6	0.0								

LOAD COMBINATION : 27 0.60DL+0.70WL1

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-2.9	1.7	0.0								
1	2	-3.0	1.4	-5.4								

1	3	-3.0	1.2	-10.0
1	4	-3.0	1.0	-13.8
2	5	-1.1	-2.7	-13.2
2	6	-1.2	-1.8	-3.2
2	7	-1.2	-1.0	3.0
2	8	-1.2	-0.1	5.4
3	9	-1.2	-0.3	5.4
3	10	-1.1	0.2	5.6
3	11	-1.1	0.7	3.5
3	12	-1.1	1.2	-0.6
4	13	-1.4	-0.8	-0.8
4	14	-1.4	-0.3	1.1
4	15	-1.3	0.2	1.4
4	16	-1.3	0.6	0.0

LOAD COMBINATION : 28 0.60DL+0.70WR1

		SERVICE LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.3	-0.6	0.0								
1	2	-1.3	-0.2	1.4								
1	3	-1.4	0.3	1.1								
1	4	-1.4	0.8	-0.8								
2	5	-1.1	-1.2	-0.6								
2	6	-1.1	-0.7	3.5								
2	7	-1.1	-0.2	5.6								
2	8	-1.2	0.3	5.4								
3	9	-1.2	0.1	5.4								
3	10	-1.2	1.0	3.0								
3	11	-1.2	1.8	-3.2								
3	12	-1.1	2.7	-13.2								
4	13	-3.0	-1.0	-13.8								
4	14	-3.0	-1.2	-10.0								
4	15	-3.0	-1.4	-5.4								
4	16	-2.9	-1.7	0.0								

LOAD COMBINATION : 29 0.60DL+0.70WL2

	SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.5	1.8	0.0								
1	2	-1.6	1.2	-5.2								
1	3	-1.6	0.6	-8.4								
1	4	-1.6	0.0	-9.4								
2	5	0.1	-1.5	-8.9								
2	6	0.1	-1.1	-3.2								
2	7	0.1	-0.6	0.6								
2	8	0.1	-0.2	2.5								
3	9	0.1	-0.2	2.5								
3	10	0.1	-0.1	3.2								
3	11	0.1	-0.1	3.6								
3	12	0.1	0.0	3.8								
4	13	0.0	0.2	3.7								
4	14	0.0	0.3	2.9								
4	15	0.1	0.4	1.6								
4	16	0.1	0.5	0.0								

LOAD COMBINATION : 30 0.60DL+0.70WR2

	SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.1	-0.5	0.0								
1	2	0.1	-0.4	1.6								
1	3	0.0	-0.3	2.9								
1	4	0.0	-0.2	3.7								
2	5	0.1	0.0	3.8								
2	6	0.1	0.1	3.6								
2	7	0.1	0.1	3.2								
2	8	0.1	0.2	2.5								
3	9	0.1	0.2	2.5								
3	10	0.1	0.6	0.6								
3	11	0.1	1.1	-3.2								
3	12	0.1	1.5	-8.9								
4	13	-1.6	0.0	-9.4								
4	14	-1.6	-0.6	-8.4								

4	15	-1.6	-1.2	-5.2								
4	16	-1.5	-1.8	0.0								

LOAD COMBINATION : 31 0.60DL+0.70LW1+LWIND1_L2E

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-3.8	0.6	0.0								
1	2	-3.8	1.2	-3.1								
1	3	-3.8	1.8	-8.3								
1	4	-3.9	2.3	-15.5								
2	5	-2.3	-3.3	-15.1								
2	6	-2.3	-2.0	-3.5								
2	7	-2.3	-1.1	3.3								
2	8	-2.4	-0.2	6.3								
3	9	-2.3	-0.6	6.3								
3	10	-2.3	0.3	7.0								
3	11	-2.3	1.1	3.9								
3	12	-2.2	2.0	-3.1								
4	13	-2.4	-1.2	-3.4								
4	14	-2.4	-0.6	-0.3								
4	15	-2.4	0.0	0.9								
4	16	-2.3	0.5	0.0								

LOAD COMBINATION : 32 0.60DL+0.70LW1+LWIND1_R2E

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-3.3	0.7	0.0								
1	2	-3.3	1.2	-3.3								
1	3	-3.4	1.8	-8.6								
1	4	-3.4	2.4	-16.0								
2	5	-2.3	-2.9	-15.8								
2	6	-2.3	-2.1	-4.6								
2	7	-2.4	-1.2	2.7								
2	8	-2.4	-0.4	6.3								
3	9	-2.3	-0.7	6.3								
3	10	-2.3	0.2	7.5								

3	11	-2.2	1.0	4.9								
3	12	-2.2	2.3	-2.5								
4	13	-2.9	-1.1	-2.9								
4	14	-2.9	-0.6	0.1								
4	15	-2.8	0.0	1.0								
4	16	-2.8	0.6	0.0								

LOAD COMBINATION : 33 0.60DL-0.70LW1+LWIND1_L2E

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-2.0	-0.6	0.0								
1	2	-2.0	0.0	1.1								
1	3	-2.0	0.6	0.1								
1	4	-2.1	1.1	-2.9								
2	5	-2.2	-2.3	-2.5								
2	6	-2.3	-1.0	4.9								
2	7	-2.3	-0.2	7.5								
2	8	-2.3	0.7	6.3								
3	9	-2.4	0.4	6.3								
3	10	-2.4	1.2	2.7								
3	11	-2.3	2.1	-4.6								
3	12	-2.3	2.9	-15.8								
4	13	-3.4	-2.4	-16.0								
4	14	-3.4	-1.8	-8.7								
4	15	-3.3	-1.2	-3.3								
4	16	-3.3	-0.7	0.0								

LOAD COMBINATION : 34 0.60DL-0.70LW1+LWIND1_R2E

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.5	-0.5	0.0								
1	2	-1.5	0.0	0.9								
1	3	-1.6	0.6	-0.3								
1	4	-1.6	1.2	-3.4								
2	5	-2.2	-2.0	-3.1								
2	6	-2.3	-1.1	3.9								

2	7	-2.3	-0.3	7.0
2	8	-2.3	0.6	6.3
3	9	-2.4	0.2	6.3
3	10	-2.3	1.1	3.3
3	11	-2.3	2.0	-3.5
3	12	-2.3	3.3	-15.2
4	13	-3.9	-2.3	-15.5
4	14	-3.8	-1.8	-8.3
4	15	-3.8	-1.2	-3.1
4	16	-3.8	-0.6	0.0

LOAD COMBINATION : 35 0.60DL+0.70LW2+LWIND2_L2E

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.4	-0.5	0.0								
1	2	-1.4	-0.3	1.4								
1	3	-1.5	0.0	1.9								
1	4	-1.5	0.2	1.6								
2	5	-1.1	-1.1	1.9								
2	6	-1.1	-0.2	5.0								
2	7	-1.1	0.2	5.1								
2	8	-1.1	0.6	3.3								
3	9	-1.2	0.5	3.3								
3	10	-1.2	0.9	0.3								
3	11	-1.2	1.3	-4.6								
3	12	-1.1	1.8	-11.5								
4	13	-2.0	-1.5	-11.6								
4	14	-1.9	-1.2	-6.9								
4	15	-1.9	-1.0	-3.0								
4	16	-1.9	-0.7	0.0								

LOAD COMBINATION : 36 0.60DL+0.70LW2+LWIND2_R2E

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-0.9	-0.5	0.0								
1	2	-1.0	-0.2	1.2								

1	3	-1.0	0.0	1.6
1	4	-1.0	0.3	1.1
2	5	-1.1	-0.8	1.3
2	6	-1.1	-0.4	3.9
2	7	-1.1	0.1	4.6
2	8	-1.1	0.5	3.3
3	9	-1.2	0.3	3.3
3	10	-1.2	0.8	0.8
3	11	-1.2	1.2	-3.5
3	12	-1.1	2.1	-10.9
4	13	-2.4	-1.4	-11.1
4	14	-2.4	-1.2	-6.5
4	15	-2.4	-0.9	-2.8
4	16	-2.3	-0.7	0.0

LOAD COMBINATION : 37 0.60DL-0.70LW2+LWIND2_L2E

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.5	0.7	0.0								
1	2	-1.5	0.9	-2.8								
1	3	-1.6	1.2	-6.5								
1	4	-1.6	1.4	-11.1								
2	5	-1.1	-2.1	-10.9								
2	6	-1.2	-1.2	-3.6								
2	7	-1.2	-0.8	0.8								
2	8	-1.2	-0.3	3.3								
3	9	-1.1	-0.5	3.3								
3	10	-1.1	-0.1	4.6								
3	11	-1.1	0.4	3.9								
3	12	-1.1	0.8	1.3								
4	13	-1.0	-0.3	1.1								
4	14	-1.0	0.0	1.6								
4	15	-1.0	0.2	1.2								
4	16	-0.9	0.5	0.0								

LOAD COMBINATION : 38 0.60DL-0.70LW2+LWIND2_R2E

	SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	-1.0	0.7	0.0								
1	2	-1.1	1.0	-3.0								
1	3	-1.1	1.2	-6.9								
1	4	-1.1	1.5	-11.6								
2	5	-1.1	-1.8	-11.5								
2	6	-1.2	-1.3	-4.6								
2	7	-1.2	-0.9	0.3								
2	8	-1.2	-0.5	3.3								
3	9	-1.1	-0.6	3.3								
3	10	-1.1	-0.2	5.1								
3	11	-1.1	0.2	5.0								
3	12	-1.1	1.1	2.0								
4	13	-1.5	-0.2	1.6								
4	14	-1.5	0.0	1.9								
4	15	-1.4	0.3	1.4								
4	16	-1.4	0.5	0.0								

LOAD COMBINATION : 39 1.03DL+1.03CL+0.70SEIS

	SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.0	-0.2	0.0								
1	2	1.0	-0.2	0.6								
1	3	0.9	-0.2	1.2								
1	4	0.9	-0.2	1.8								
2	5	0.4	0.7	1.6								
2	6	0.3	0.4	-1.0								
2	7	0.3	0.2	-2.4								
2	8	0.3	-0.1	-2.5								
3	9	0.3	-0.1	-2.5								
3	10	0.3	-0.4	-1.5								
3	11	0.4	-0.7	0.8								
3	12	0.4	-0.9	4.4								
4	13	1.1	0.4	4.6								
4	14	1.1	0.4	3.1								

4	15	1.2	0.4	1.5
4	16	1.3	0.4	0.0

LOAD COMBINATION : 40 1.03DL+1.03CL-0.70SEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.3	-0.4	0.0								
1	2	1.2	-0.4	1.5								
1	3	1.1	-0.4	3.1								
1	4	1.1	-0.4	4.6								
2	5	0.4	0.9	4.4								
2	6	0.4	0.7	0.8								
2	7	0.3	0.4	-1.5								
2	8	0.3	0.1	-2.5								
3	9	0.3	0.1	-2.5								
3	10	0.3	-0.2	-2.4								
3	11	0.3	-0.4	-1.0								
3	12	0.4	-0.7	1.6								
4	13	0.9	0.2	1.8								
4	14	0.9	0.2	1.2								
4	15	1.0	0.2	0.6								
4	16	1.0	0.2	0.0								

LOAD COMBINATION : 41 1.02DL+1.02CL+0.75LL+0.52SEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.7	-2.0	0.0								
1	2	6.6	-2.0	6.9								
1	3	6.6	-2.0	13.9								
1	4	6.5	-2.0	20.8								
2	5	2.6	5.6	19.4								
2	6	2.4	3.7	-1.4								
2	7	2.2	1.7	-13.6								
2	8	2.1	-0.2	-17.1								
3	9	2.1	0.0	-17.0								
3	10	2.2	-1.9	-12.8								

3	11	2.4	-3.9	0.0								
3	12	2.6	-5.8	21.6								
4	13	6.7	2.2	23.0								
4	14	6.7	2.2	15.3								
4	15	6.8	2.2	7.7								
4	16	6.8	2.2	0.0								

LOAD COMBINATION : 42 1.02DL+1.02CL+0.75LL-0.52SEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.8	-2.2	0.0								
1	2	6.8	-2.2	7.7								
1	3	6.7	-2.2	15.3								
1	4	6.7	-2.2	23.0								
2	5	2.6	5.8	21.6								
2	6	2.4	3.9	0.0								
2	7	2.2	1.9	-12.8								
2	8	2.1	0.0	-17.0								
3	9	2.1	0.2	-17.1								
3	10	2.2	-1.7	-13.6								
3	11	2.4	-3.7	-1.4								
3	12	2.6	-5.6	19.4								
4	13	6.5	2.0	20.8								
4	14	6.6	2.0	13.9								
4	15	6.6	2.0	6.9								
4	16	6.7	2.0	0.0								

LOAD COMBINATION : 43 1.02DL+1.02CL+0.52SEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.1	-0.2	0.0								
1	2	1.0	-0.2	0.7								
1	3	0.9	-0.2	1.4								
1	4	0.9	-0.2	2.1								
2	5	0.4	0.7	1.9								
2	6	0.3	0.5	-0.8								

2	7	0.3	0.2	-2.3
2	8	0.3	-0.1	-2.5
3	9	0.3	-0.1	-2.5
3	10	0.3	-0.3	-1.6
3	11	0.4	-0.6	0.6
3	12	0.4	-0.9	4.0
4	13	1.1	0.4	4.2
4	14	1.1	0.4	2.8
4	15	1.2	0.4	1.4
4	16	1.2	0.4	0.0

LOAD COMBINATION : 44 1.02DL+1.02CL-0.52SEIS

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.2	-0.4	0.0								
1	2	1.2	-0.4	1.4								
1	3	1.1	-0.4	2.8								
1	4	1.1	-0.4	4.2								
2	5	0.4	0.9	4.0								
2	6	0.4	0.6	0.6								
2	7	0.3	0.3	-1.6								
2	8	0.3	0.1	-2.5								
3	9	0.3	0.1	-2.5								
3	10	0.3	-0.2	-2.3								
3	11	0.3	-0.5	-0.8								
3	12	0.4	-0.7	1.9								
4	13	0.9	0.2	2.1								
4	14	0.9	0.2	1.4								
4	15	1.0	0.2	0.7								
4	16	1.1	0.2	0.0								

LOAD COMBINATION : 45 0.57DL+0.70SEIS

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.5	0.0	0.0								
1	2	0.5	0.0	0.1								

1	3	0.5	0.0	0.2
1	4	0.4	0.0	0.4
2	5	0.2	0.4	0.2
2	6	0.2	0.2	-1.0
2	7	0.2	0.0	-1.5
2	8	0.2	-0.1	-1.4
3	9	0.2	-0.1	-1.4
3	10	0.2	-0.3	-0.6
3	11	0.2	-0.4	0.9
3	12	0.2	-0.6	3.1
4	13	0.6	0.3	3.2
4	14	0.7	0.3	2.1
4	15	0.7	0.3	1.1
4	16	0.7	0.3	0.0

LOAD COMBINATION : 46 0.57DL-0.70SEIS

		SERVICE LOAD (k , f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.7	-0.3	0.0								
1	2	0.7	-0.3	1.1								
1	3	0.7	-0.3	2.1								
1	4	0.6	-0.3	3.2								
2	5	0.2	0.6	3.1								
2	6	0.2	0.4	0.9								
2	7	0.2	0.3	-0.6								
2	8	0.2	0.1	-1.4								
3	9	0.2	0.1	-1.4								
3	10	0.2	0.0	-1.5								
3	11	0.2	-0.2	-1.0								
3	12	0.2	-0.4	0.2								
4	13	0.4	0.0	0.4								
4	14	0.5	0.0	0.2								
4	15	0.5	0.0	0.1								
4	16	0.5	0.0	0.0								

LOAD COMBINATION : 47 1.03DL+1.03CL+0.70LSEIS

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.9	0.0	0.0								
1	2	0.8	0.0	-0.1								
1	3	0.8	0.0	-0.1								
1	4	0.7	0.0	-0.2								
2	5	0.4	0.6	-0.4								
2	6	0.3	0.3	-2.4								
2	7	0.3	0.0	-3.1								
2	8	0.3	-0.3	-2.5								
3	9	0.3	-0.2	-2.5								
3	10	0.3	-0.5	-0.8								
3	11	0.4	-0.8	2.2								
3	12	0.4	-1.1	6.4								
4	13	1.2	0.6	6.6								
4	14	1.3	0.6	4.4								
4	15	1.3	0.6	2.2								
4	16	1.4	0.6	0.0								

LOAD COMBINATION : 48 1.03DL+1.03CL-0.70LSEIS

		SERVICE_LOAD (k ,f-k)									
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.7	-0.6	0.0								
1	2	1.7	-0.6	2.2								
1	3	1.6	-0.6	4.4								
1	4	1.6	-0.6	6.6								
2	5	0.4	1.1	6.4								
2	6	0.4	0.8	2.2								
2	7	0.3	0.5	-0.8								
2	8	0.3	0.2	-2.5								
3	9	0.3	0.3	-2.5								
3	10	0.3	0.0	-3.1								
3	11	0.3	-0.3	-2.4								
3	12	0.4	-0.6	-0.4								
4	13	0.7	0.0	-0.2								
4	14	0.8	0.0	-0.1								

4	15	0.8	0.0	-0.1								
4	16	0.9	0.0	0.0								

LOAD COMBINATION : 49 1.02DL+1.02CL+0.75LL+0.52LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	6.6	-1.8	0.0								
1	2	6.5	-1.8	6.4								
1	3	6.5	-1.8	12.8								
1	4	6.4	-1.8	19.3								
2	5	2.5	5.5	17.8								
2	6	2.4	3.6	-2.5								
2	7	2.2	1.6	-14.1								
2	8	2.1	-0.3	-17.1								
3	9	2.1	-0.1	-17.0								
3	10	2.3	-2.0	-12.3								
3	11	2.4	-4.0	1.1								
3	12	2.6	-5.9	23.2								
4	13	6.8	2.3	24.5								
4	14	6.8	2.3	16.4								
4	15	6.9	2.3	8.2								
4	16	7.0	2.3	0.0								

LOAD COMBINATION : 50 1.02DL+1.02CL+0.75LL-0.52LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	7.2	-2.3	0.0								
1	2	7.1	-2.3	8.2								
1	3	7.1	-2.3	16.4								
1	4	7.0	-2.3	24.5								
2	5	2.6	5.9	23.2								
2	6	2.4	4.0	1.1								
2	7	2.3	2.0	-12.3								
2	8	2.1	0.1	-17.0								
3	9	2.1	0.3	-17.1								
3	10	2.2	-1.6	-14.1								

3	11	2.4	-3.6	-2.5								
3	12	2.5	-5.5	17.8								
4	13	6.4	1.8	19.3								
4	14	6.5	1.8	12.8								
4	15	6.5	1.8	6.4								
4	16	6.6	1.8	0.0								

LOAD COMBINATION : 51 1.02DL+1.02CL+0.52LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.9	-0.1	0.0								
1	2	0.9	-0.1	0.2								
1	3	0.8	-0.1	0.4								
1	4	0.8	-0.1	0.6								
2	5	0.4	0.6	0.4								
2	6	0.3	0.4	-1.8								
2	7	0.3	0.1	-2.8								
2	8	0.3	-0.2	-2.5								
3	9	0.3	-0.2	-2.5								
3	10	0.3	-0.5	-1.1								
3	11	0.4	-0.7	1.6								
3	12	0.4	-1.0	5.5								
4	13	1.2	0.5	5.7								
4	14	1.2	0.5	3.8								
4	15	1.3	0.5	1.9								
4	16	1.3	0.5	0.0								

LOAD COMBINATION : 52 1.02DL+1.02CL-0.52LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.6	-0.5	0.0								
1	2	1.5	-0.5	1.9								
1	3	1.5	-0.5	3.8								
1	4	1.4	-0.5	5.7								
2	5	0.4	1.0	5.5								
2	6	0.4	0.7	1.6								

2	7	0.3	0.5	-1.1
2	8	0.3	0.2	-2.5
3	9	0.3	0.2	-2.5
3	10	0.3	-0.1	-2.8
3	11	0.3	-0.4	-1.8
3	12	0.4	-0.6	0.4
4	13	0.8	0.1	0.6
4	14	0.8	0.1	0.4
4	15	0.9	0.1	0.2
4	16	0.9	0.1	0.0

LOAD COMBINATION : 53 0.57DL+0.70LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	0.4	0.2	0.0								
1	2	0.3	0.2	-0.5								
1	3	0.3	0.2	-1.1								
1	4	0.3	0.2	-1.6								
2	5	0.2	0.2	-1.8								
2	6	0.2	0.0	-2.3								
2	7	0.2	-0.1	-2.2								
2	8	0.1	-0.3	-1.4								
3	9	0.2	-0.2	-1.4								
3	10	0.2	-0.4	0.1								
3	11	0.2	-0.6	2.2								
3	12	0.2	-0.7	5.1								
4	13	0.8	0.5	5.2								
4	14	0.8	0.5	3.4								
4	15	0.9	0.5	1.7								
4	16	0.9	0.5	0.0								

LOAD COMBINATION : 54 0.57DL-0.70LSEIS

		SERVICE_LOAD (k ,f-k)										
Sn	Id	Axial P	Shear V	Moment M	Axial Pr	Shear Vr	Bend-O MrO	Bend-I MrI	Axial Ucp	Shear Ucv	O-f Uco	I-f Uci
1	1	1.2	-0.5	0.0								
1	2	1.2	-0.5	1.7								

1	3	1.1	-0.5	3.4
1	4	1.1	-0.5	5.2
2	5	0.2	0.7	5.1
2	6	0.2	0.6	2.2
2	7	0.2	0.4	0.1
2	8	0.2	0.2	-1.4
3	9	0.1	0.3	-1.4
3	10	0.2	0.1	-2.2
3	11	0.2	0.0	-2.3
3	12	0.2	-0.2	-1.8
4	13	0.3	-0.2	-1.6
4	14	0.3	-0.2	-1.1
4	15	0.3	-0.2	-0.5
4	16	0.4	-0.2	0.0

M11013 Flange Braces 2/ 7/12 3:55pm

PROPERTIES:

Flange Brace Yield= 50.0 ksi
Girt/Purlin Yield= 57.0 ksi
Flange Brace Bolt = 0.500 (A307) (1 Washer)

FLANGE BRACE DESIGN:

Surf Id	No. Brace	Loc	Side	Part	Web Depth	Brace Dist	Load Id	Calc Force	-Brace_UC- Comp	Tens	Conn UC
1	1	1	1	L2X2X1/8	11.50	28.00	2	0.33	0.13	0.42	0.16
2	2	1	1	L2X2X1/8	11.40	28.00	25	0.18	0.07	0.23	0.09
		3	1	L2X2X1/8	11.40	28.00	33	0.17	0.07	0.22	0.09
3	2	1	1	L2X2X1/8	11.40	28.00	32	0.17	0.07	0.22	0.09
		3	1	L2X2X1/8	11.40	28.00	13	0.18	0.07	0.23	0.09
4	1	1	1	L2X2X1/8	11.50	28.00	1	0.33	0.13	0.42	0.16

LOAD COMBINATIONS:

1 - DL+CL+LL
2 - DL+CL+LL
13 - DL+CL+0.75LL+0.75WL2
25 - DL+CL+0.75SL+0.75WR2+0.75Drift
32 - 0.60DL+LW1+LWIND1_R2E
33 - 0.60DL-LW1+LWIND1_L2E

FLANGE PLATE:(a)

Locate	--Initial-- Width (in)	Thick (in)	-Required-- Width (in)	Thick (in)
Lt Col	4.0	0.265	6.0	0.375
Rt Col	4.0	0.265	6.0	0.375

WEB PLATE:(b)

Locate	Id	------Load------ Axial (k)	Moment (f-k)	Shear Force (k)	---Initial-- Web Thick (in)	Shear Limit (k)	--Required-- Web Thick (in)	Shear Limit (k)
Lt Col	2	3.3	26.6	26.3	0.220	32.72	0.220	32.72
Rt Col	1	3.3	26.6	26.3	0.220	32.72	0.220	32.72

REQUIRED WEB DESIGN:

Locate	H	Av	Kv	Cv
Lt Col	11.50	10.96	10.50	1.00
Rt Col	11.50	10.96	10.50	1.00

(a)DS_BUILD(frame37)=3 .. see help.
(b)DS_BUILD(frame36)=2 .. see help.

LOAD COMBINATIONS:

1 - DL+CL+LL
2 - DL+CL+LL

FRAME:

Id = 1
Type = RF
Line Id = 2
Load Width= 25.0

MEMBERS:

Mem Id	Seg Id	Flange Len	Flange Wid	Web_Depth Strt	Web_Depth End	Plate_Thickness Web	Plate_Thickness O-flg	Plate_Thickness I-flg	Max_UCV Id	Max_UCV Ld	Max_UCV Ucv	Max_UCO Id	Max_UCO Ld	Max_UCO Uco	Max_UCI Id	Max_UCI Ld	Max_UCI Uci	Max KL/R
1	1	11.4	4.0	11.5	11.5	0.220	0.265	0.265	4	32	0.07	4	2	0.50	4	2	0.61	113
2	2	13.5	4.0	11.4	11.4	0.188	0.225	0.225	5	2	0.19	5	2	0.61	5	2	0.66	79
3	3	13.5	4.0	11.4	11.4	0.188	0.225	0.225	12	1	0.19	12	1	0.61	12	1	0.66	79
4	4	11.4	4.0	11.5	11.5	0.220	0.265	0.265	13	33	0.07	13	1	0.50	13	1	0.61	113

HOT ROLLED MEMBERS:

Surf Id	Member Id	Member Part
1	1	W12X16
2	2	W12X14
3	3	W12X14
4	4	W12X16

LOAD COMBINATIONS:

1#- DL+CL+LL
2#- DL+CL+LL
3 - DL+CL+SL
4 - DL+CL+SL
5 - DL+CL+SL+Drift
6 - DL+CL+SL+Drift
7 - DL+CL+SL+Slide
8 - DL+CL+SL+Slide
9 - DL
10 - DL
11 - DL+CL+0.75LL+0.75WL1
12 - DL+CL+0.75LL+0.75WR1
13 - DL+CL+0.75LL+0.75WL2
14 - DL+CL+0.75LL+0.75WR2
15 - DL+CL+0.75SL+0.75WL1
16 - DL+CL+0.75SL+0.75WL1+0.75Drift
17 - DL+CL+0.75SL+0.75WL1+0.75Slide
18 - DL+CL+0.75SL+0.75WR1
19 - DL+CL+0.75SL+0.75WR1+0.75Drift
20 - DL+CL+0.75SL+0.75WR1+0.75Slide
21 - DL+CL+0.75SL+0.75WL2
22 - DL+CL+0.75SL+0.75WL2+0.75Drift
23 - DL+CL+0.75SL+0.75WL2+0.75Slide
24 - DL+CL+0.75SL+0.75WR2
25 - DL+CL+0.75SL+0.75WR2+0.75Drift
26 - DL+CL+0.75SL+0.75WR2+0.75Slide
27 - 0.60DL+WL1
28 - 0.60DL+WR1
29 - 0.60DL+WL2
30 - 0.60DL+WR2
31 - 0.60DL+LW1+LWIND1_L2E
32#- 0.60DL+LW1+LWIND1_R2E
33#- 0.60DL-LW1+LWIND1_L2E
34 - 0.60DL-LW1+LWIND1_R2E
35 - 0.60DL+LW2+LWIND2_L2E
36 - 0.60DL+LW2+LWIND2_R2E
37 - 0.60DL-LW2+LWIND2_L2E
38 - 0.60DL-LW2+LWIND2_R2E
39 - 1.03DL+1.03CL+0.70SEIS
40 - 1.03DL+1.03CL-0.70SEIS
41 - 1.02DL+1.02CL+0.75LL+0.52SEIS
42 - 1.02DL+1.02CL+0.75LL-0.52SEIS
43 - 1.02DL+1.02CL+0.52SEIS
44 - 1.02DL+1.02CL-0.52SEIS
45 - 0.57DL+0.70SEIS
46 - 0.57DL-0.70SEIS

47 - 1.03DL+1.03CL+0.70LSEIS
48 - 1.03DL+1.03CL-0.70LSEIS
49 - 1.02DL+1.02CL+0.75LL+0.52LSEIS
50 - 1.02DL+1.02CL+0.75LL-0.52LSEIS
51 - 1.02DL+1.02CL+0.52LSEIS
52 - 1.02DL+1.02CL-0.52LSEIS
53 - 0.57DL+0.70LSEIS
54 - 0.57DL-0.70LSEIS
55 - 1.24DL+1.24CL+3.00SEIS
56 - 1.24DL+1.24CL-3.00SEIS
57 - 0.86DL+3.00SEIS
58 - 0.86DL-3.00SEIS

FRAME AREA:

Frame Area = 49.41
Building Area= 378.75
Ratio= 0.13

REACTIONS: (Sidewall Columns)

Load	Left_Column				Right_Column			
Id	Fx(k)	Fy(k)	Fz(k)	M(f-k)	Fx(k)	Fy(k)	Fz(k)	M(f-k)
1	2.67	8.59	0.00	0.00	-2.67	8.63	0.00	0.00
2	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
3	2.67	8.59	0.00	0.00	-2.67	8.63	0.00	0.00
4	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
5	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
6	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
7	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
8	2.67	8.63	0.00	0.00	-2.67	8.59	0.00	0.00
9	0.30	1.11	0.00	0.00	-0.30	1.11	0.00	0.00
10	0.30	1.11	0.00	0.00	-0.30	1.11	0.00	0.00
11	0.10	2.86	0.00	0.00	-2.58	4.64	0.00	0.00
12	2.58	4.64	0.00	0.00	-0.10	2.86	0.00	0.00
13	-0.04	4.37	0.00	0.00	-2.44	6.16	0.00	0.00
14	2.44	6.16	0.00	0.00	0.04	4.37	0.00	0.00
15	0.10	2.86	0.00	0.00	-2.58	4.64	0.00	0.00
16	0.10	2.86	0.00	0.00	-2.58	4.64	0.00	0.00
17	0.10	2.86	0.00	0.00	-2.58	4.64	0.00	0.00
18	2.58	4.64	0.00	0.00	-0.10	2.86	0.00	0.00
19	2.58	4.64	0.00	0.00	-0.10	2.86	0.00	0.00
20	2.58	4.64	0.00	0.00	-0.10	2.86	0.00	0.00
21	-0.04	4.37	0.00	0.00	-2.44	6.16	0.00	0.00
22	-0.04	4.37	0.00	0.00	-2.44	6.16	0.00	0.00
23	-0.04	4.37	0.00	0.00	-2.44	6.16	0.00	0.00
24	2.44	6.16	0.00	0.00	0.04	4.37	0.00	0.00
25	2.44	6.16	0.00	0.00	0.04	4.37	0.00	0.00
26	2.44	6.16	0.00	0.00	0.04	4.37	0.00	0.00
27	-2.47	-4.47	0.00	0.00	-0.84	-2.17	0.00	0.00
28	0.84	-2.17	0.00	0.00	2.47	-4.47	0.00	0.00
29	-2.65	-2.46	0.00	0.00	-0.66	-0.13	0.00	0.00
30	0.66	-0.13	0.00	0.00	2.65	-2.46	0.00	0.00
31	-0.97	-6.86	2.33	0.00	-0.71	-3.64	0.00	0.00
32	-1.04	-6.18	2.33	0.00	-0.78	-4.32	0.00	0.00
33	0.78	-3.10	0.00	0.00	1.04	-4.98	0.00	0.00
34	0.70	-2.43	0.00	0.00	0.98	-5.65	0.00	0.00

35	0.68	-3.49	2.33	0.00	1.14	-2.96	0.00	0.00
36	0.61	-2.82	2.33	0.00	1.07	-3.64	0.00	0.00
37	-1.07	-2.43	0.00	0.00	-0.61	-1.60	0.00	0.00
38	-1.13	-1.76	0.00	0.00	-0.69	-2.28	0.00	0.00
39	0.17	1.04	0.00	0.00	-0.44	1.25	0.00	0.00
40	0.44	1.25	0.00	0.00	-0.17	1.04	0.00	0.00
41	1.98	6.68	0.00	0.00	-2.18	6.84	0.00	0.00
42	2.18	6.84	0.00	0.00	-1.98	6.68	0.00	0.00
43	0.20	1.06	0.00	0.00	-0.40	1.21	0.00	0.00
44	0.40	1.21	0.00	0.00	-0.20	1.06	0.00	0.00
45	0.04	0.53	0.00	0.00	-0.30	0.74	0.00	0.00
46	0.30	0.74	0.00	0.00	-0.04	0.53	0.00	0.00
47	-0.02	0.57	0.60	0.00	-0.63	1.40	0.00	0.00
48	0.63	1.72	0.00	0.00	0.02	0.89	0.00	0.00
49	1.84	6.33	0.45	0.00	-2.32	6.96	0.00	0.00
50	2.32	7.19	0.00	0.00	-1.84	6.56	0.00	0.00
51	0.06	0.71	0.45	0.00	-0.54	1.32	0.00	0.00
52	0.54	1.56	0.00	0.00	-0.06	0.94	0.00	0.00
53	-0.15	0.06	0.60	0.00	-0.49	0.89	0.00	0.00
54	0.49	1.20	0.00	0.00	0.15	0.38	0.00	0.00

DEFLECTIONS :

Load Id	Lateral Defl @ Top Of Col Left	Right	Vert Defl @ Midspan
1	-0.05	0.09	-0.89
2	-0.09	0.05	-0.89
3	-0.05	0.09	-0.89
4	-0.09	0.05	-0.89
5	-0.09	0.05	-0.89
6	-0.09	0.05	-0.89
7	-0.09	0.05	-0.89
8	-0.09	0.05	-0.89
9	-0.01	0.01	-0.10
10	-0.01	0.01	-0.10
11	0.24	0.32	-0.48
12	-0.32	-0.24	-0.48
13	0.24	0.33	-0.57
14	-0.33	-0.24	-0.57
15	0.24	0.32	-0.48
16	0.24	0.32	-0.48
17	0.24	0.32	-0.48
18	-0.32	-0.24	-0.48
19	-0.32	-0.24	-0.48
20	-0.32	-0.24	-0.48
21	0.24	0.33	-0.57
22	0.24	0.33	-0.57
23	0.24	0.33	-0.57
24	-0.33	-0.24	-0.57
25	-0.33	-0.24	-0.57
26	-0.33	-0.24	-0.57
27	0.37	0.34	0.22
28	-0.34	-0.37	0.22
29	0.37	0.35	0.10

30	-0.35	-0.37	0.10
31	0.35	0.31	0.26
32	0.40	0.36	0.26
33	-0.36	-0.40	0.26
34	-0.31	-0.35	0.26
35	-0.38	-0.40	0.14
36	-0.32	-0.34	0.14
37	0.34	0.32	0.14
38	0.40	0.38	0.14
39	0.07	0.09	-0.10
40	-0.09	-0.07	-0.10
41	0.01	0.12	-0.70
42	-0.12	-0.01	-0.70
43	0.05	0.07	-0.10
44	-0.07	-0.05	-0.10
45	0.07	0.08	-0.06
46	-0.08	-0.07	-0.06
47	0.18	0.20	-0.10
48	-0.20	-0.18	-0.10
49	0.09	0.20	-0.70
50	-0.20	-0.09	-0.70
51	0.13	0.15	-0.10
52	-0.15	-0.14	-0.10
53	0.19	0.20	-0.06
54	-0.20	-0.19	-0.06

DEFLECTIONS RATIO:

Load Id	Lateral Defl @ Top Of Col Left	Right	Vert Defl @ Midspan
1	2560	1587	403
2	1587	2560	403
3	2560	1587	403
4	1587	2560	403
5	1587	2560	403
6	1587	2560	403
7	1587	2560	403
8	1587	2560	403
9	24493	13934	3653
10	13935	24492	3653
11	560	427	747
12	427	560	747
13	569	416	630
14	416	569	630
15	560	427	747
16	560	427	747
17	560	427	747
18	427	560	747
19	427	560	747
20	427	560	747
21	569	416	630
22	569	416	630
23	569	416	630
24	416	569	630

25	416	569	630
26	416	569	630
27	364	400	1606
28	400	364	1606
29	368	387	3448
30	387	368	3448
31	393	440	1370
32	340	375	1370
33	374	339	1372
34	438	392	1372
35	363	344	2569
36	424	399	2570
37	398	423	2577
38	344	362	2576
39	1907	1562	3547
40	1562	1907	3547
41	18797	1177	517
42	1177	18800	517
43	2666	2041	3581
44	2041	2666	3581
45	1824	1632	6409
46	1632	1824	6409
47	739	681	3546
48	680	738	3541
49	1440	671	517
50	670	1436	517
51	1010	905	3581
52	904	1009	3577
53	728	695	6408
54	694	727	6391

MAX DEFLECTION:

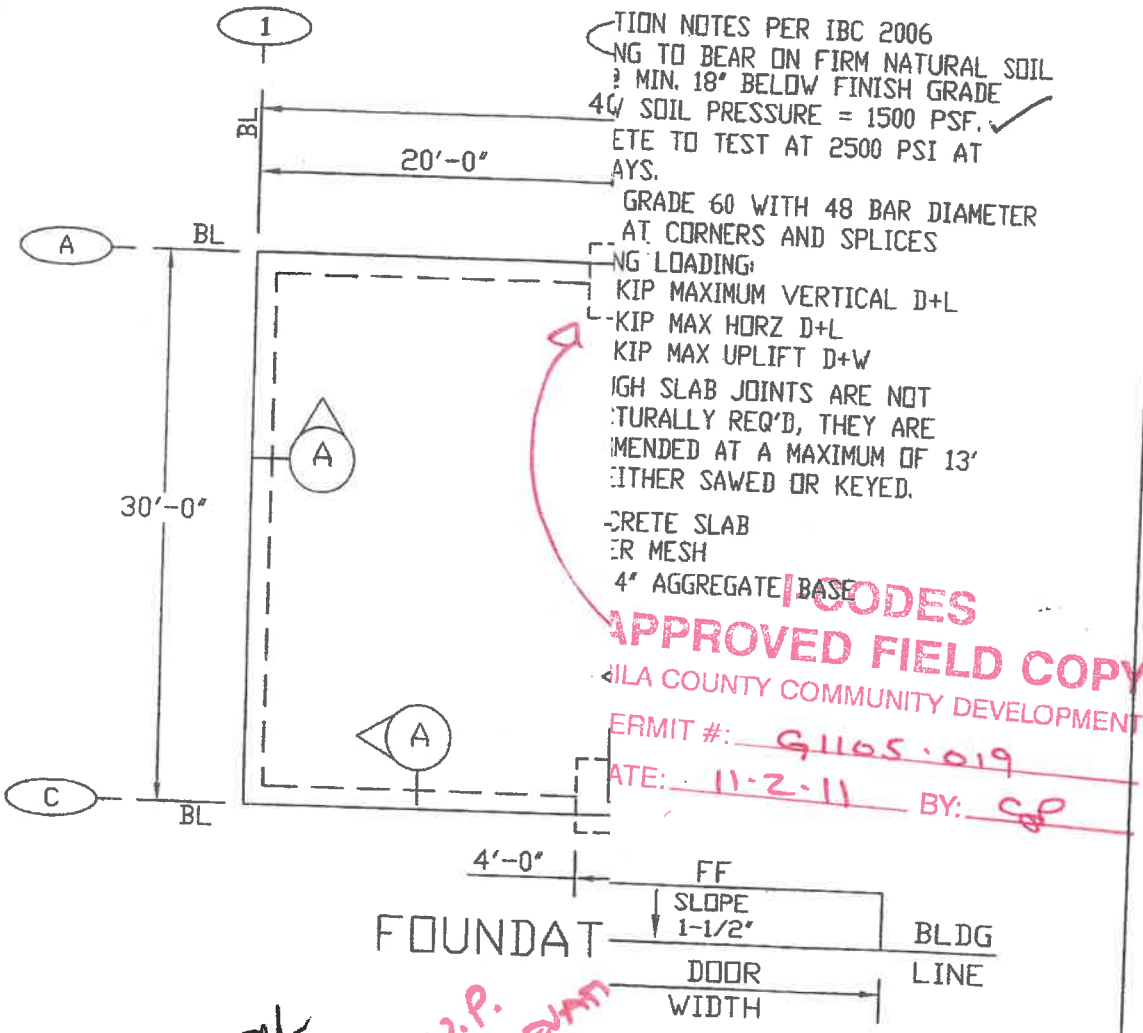
Type	Deflect	Span/Deflect	Limit
Live Vertical	-0.79	454.	180.
Horizontal Drift	-0.40	340.	60.

Horizontal Spring Constant= 3.37 k/in

P-DELTA CHECK:(Effective Length)

	Max Deflect Ratio
Left Column:	0.0486
Right Column:	0.0486

Max first order drift (in) = 0.59
Max second order drift (in) = 0.57
Ratio second/first = 0.97



TION NOTES PER IBC 2006
NG TO BEAR ON FIRM NATURAL SOIL
MIN. 18" BELOW FINISH GRADE
40 SOIL PRESSURE = 1500 PSF.
ETE TO TEST AT 2500 PSI AT
AYS.
GRADE 60 WITH 48 BAR DIAMETER
AT CORNERS AND SPLICES
NG LOADING:
KIP MAXIMUM VERTICAL D+L
KIP MAX HORZ D+L
KIP MAX UPLIFT D+W
IGH SLAB JOINTS ARE NOT
TURALLY REQ'D, THEY ARE
MENDED AT A MAXIMUM OF 13'
ITHER SAWED OR KEYED.
CRETE SLAB
R MESH
4" AGGREGATE BASE

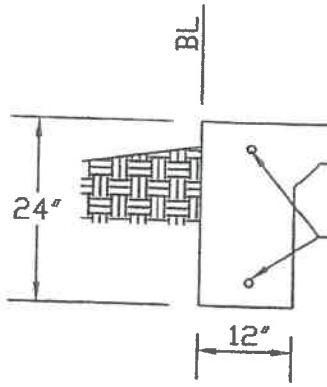
CODES
APPROVED FIELD COPY
GILA COUNTY COMMUNITY DEVELOPMENT
PERMIT #: G1105-019
DATE: 11-2-11 BY:

FOUNDAT

PLAN VIEW

SEE F.P.U.P. CERTIFIED ELEVATION REQUIRED

OR OPENING DETAIL



(A) SLAB TURNDOWN
@ GRID 1,3,A,C

(1)#5 TIE
ACROSS BLDG

LR

N TIE DET

to 2

Registered Professional Engineer (Structural)
CERTIFICATE NO.
19088
BEN J.
RIEHL
Date Signed 5-9-11
ARIZONA, U.S.A.
EXPIRES 03/31/2013

2-21-12 PER ROEN
NO CHANGE TO
FOUNDATION PLAN.
BJR.

FOUNDATION for
GILA COUNTY CA&HS
GLOBE, AZ 85501

AGATE STEEL
SCOTTSDALE, AZ

BY: BEN	
DATE: 5-5-11	
JOB# 211115	
AG#M11013	

SHEET F-1 OF 2

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