DESIGN REPORT & STRUCTURAL CALCULATIONS

Wedgcor, Inc.

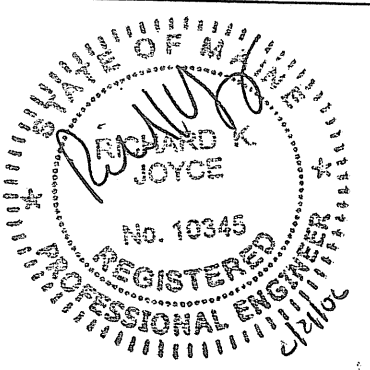
Job Name :	Sebago Technics
Location :	Portland, ME
Description :	70' x 280' x 24'/26.9 2:12
P.O. # :	W28886

REV NO.	DATE	NOTES

Designed by TH
Checked by JAH

Reviewed by RKJ

Engineer's Seal



JOB W28886

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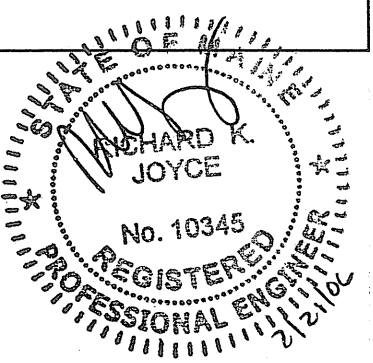


WEDGCOR, INC.

STRUCTURAL DESIGN CALCULATIONS
FOR
DOVETAIL GROUP

RANDY ACKERS

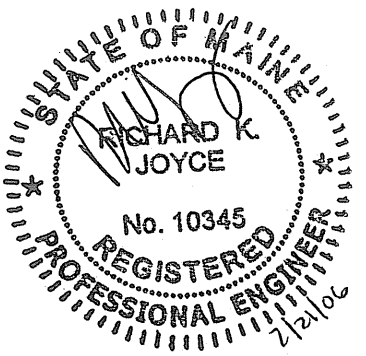
PORTLAND, ME
W28886

BUILDING DATA

Width (ft)	=	70.0
Length (ft)	=	280.0
Eave Height (ft)	=	24.0/ 26.9
Roof Slope (rise/12)	=	0.50
Dead Load (psf)	=	2.2
Live Load (psf)	=	20.0
Collat. Load (psf)	=	5.0
Snow Load (psf)	=	35.0
Wind Speed(mph)	=	90.0
Wind Code	=	IBC 03
Closed/Open	=	C
Exposure	=	B
Importance - Wind	=	1.00
Importance - Seismic	=	1.00
Seismic Design Category	=	C
Seismic Coeff (Fa*Ss)	=	0.56

Designer = PWB

2/01/06



W28886 Design Loads For Each Building Component: 2/01/06 10:06am

FRONT SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	-----Edge_Strip_Ratio----- Zone Width	Girt	Panel	Col/ Jamb
12.3	1.00	1.00	7.00	1.00	1.00	1.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
10.8	-11.9		.. Girt/Header
13.3	-14.4		.. Panel
10.8	-11.8		.. Jamb
22.2	-13.6		.. Parapet

BACK SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	-----Edge_Strip_Ratio----- Zone Width	Girt	Panel	Col/ Jamb
12.3	1.00	1.00	7.00	1.00	1.00	1.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
10.8	-11.9		.. Girt/Header
13.3	-14.4		.. Panel
10.8	-11.8		.. Jamb
22.2	-13.6		.. 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
2.2	5.0	20.0	35.0	12.3	1.00	1.00	7.00	1.00	1.00	1.00

BASIC LOADS AT EAVE:

Seis_Coeff Frame	Brace	Seis_Load Frame	Brace	---Torsion--- Wind	Seismic
0.053	0.149	0.00	0.30	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
10.8	-11.9	.. Column
10.8	-11.9	.. Girt/Header
10.8	-11.8	.. Jamb
13.3	-14.4	.. Panel
22.2	-13.6	.. Parapet

WIND COEFFICIENTS:

Surf Id	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Bracing_Wind Left	Bracing_Wind Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.48	-0.60	0.00	0.00
2	-1.22	-1.22	-0.86	-0.86	-1.22	-1.22	-1.22	0.00
3	0.00	0.00	0.00	0.00	-0.69	0.41	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load No.	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Column_Wind Seis	Aux_Load Id	Aux_Load Coef
10	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
	3	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
	8	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
	9	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	10	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

RAFTER DESIGN LOADS:

Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Long Seis	Aux_Load Id	Aux_Load Coef
6	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	1.00	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	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00

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
2.2	5.0	20.0	35.0	12.3	1.00	1.00	7.00	1.00	1.00	1.00

BASIC LOADS AT EAVE:

Seis_Coeff Frame	Seis_Coeff Brace	Seis_Load Frame	Seis_Load Brace	Torsion Wind	Torsion Seismic
0.053	0.149	0.73	2.04	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
10.8	-11.9	.. Column

```
    10.8 -11.9     .. Girt/Header
    10.8 -11.8     .. Jamb
    13.3 -14.4     .. Panel
    22.2 -13.6     .. Parapet
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WIND COEFFICIENTS:

Surf Id	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Bracing_Wind Left	Bracing_Wind Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.41	-0.69	0.00	0.00
2	-1.22	-1.22	-0.86	-0.86	-1.22	-1.22	-1.22	0.00
3	0.00	0.00	0.00	0.00	-0.60	0.48	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load No.	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Column_Wind Seis	Aux_Load Id	Aux_Load Coef
10	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
	3	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
	8	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
	9	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	10	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

RAFTER DESIGN LOADS:

Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Long Seis	Aux_Load Id	Aux_Load Coef
13	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	1.00	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	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	8	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1.00
	9	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	1.00
	10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	1.00
	11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	1.00
	12	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Add_Load Coeff
5	1	E2PAT_SL 1	2	1	0.57
				2	0.57
	2	E2PAT_SL 2	2	2	0.57
				3	0.57
	3	E2PAT_SL 3	2	3	0.57
				4	0.57
	4	E2PAT_SL 4	2	1	0.57
				3	0.57
	5	E2PAT_SL 5	2	2	0.57
				4	0.57

ADDITIONAL LOADS:

No. Add	Add Surf Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	X Dx1	Y Dx2	.. Conc .. Dist
4	1	2	------	D	-0.35	-0.35	-0.04	0.00	17.52	
	2	2	------	D	-0.35	-0.35	-0.04	17.52	35.03	
	3	2	------	D	-0.35	-0.35	-0.04	35.03	52.55	
	4	2	------	D	-0.35	-0.35	-0.04	52.55	70.06	

ROOFDES:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Factor	Surface Friction	--Seis_Coeff- Frame	Frame	% Snow
2.2	5.0	20.0	35.0	12.3	1.00	1.00	0.00	0.053	0.149	0.20

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Suct_Roof	
10.0	-13.3		.. Purlins
0.0	-20.6		.. Gable Extensions
10.0	-14.6		.. Panels
5.3	-3.8	-8.5	.. Long Bracing, Building
8.0	-5.7		.. Long Bracing, Wall Edge Zone
22.2	-13.6	9.9	.. Long Bracing, Facia/Parapet

EDGE & CORNER ZONE WIND:

Surface		--------Left_End--------		----Coeff---		------Center------		----Coeff---	--------Right_End--------		----Coeff---	
Id	Loc	Width	Length	Purlin	Panel	Width	Purlin	Panel	Width	Length	Purlin	Panel
2	L	7.00	7.00	1.18	1.00	7.00	1.18	1.00	7.00	7.00	1.18	1.00
	C	56.06	7.00	1.18	1.00	56.06	1.00	1.00	56.06	7.00	1.18	1.00
	R	7.00	7.00	1.18	1.00	7.00	1.18	1.00	7.00	7.00	1.18	1.00

PURLIN DESIGN LOADS:

Surf Id	No. Loads	Load Id	Dead	Collat	Live/ Snow	Wind Press	Wind Suct	Aux_Load Id	Coef
2	35	1	1.00	1.00	1.00	0.00	0.00	0	0.00
		2	1.00	1.00	0.75	0.75	0.00	0	0.00
		3	0.60	0.00	0.00	0.00	1.00	0	0.00
		4	1.00	1.00	0.50	0.00	0.00	3	1.00
		5	1.00	1.00	0.50	0.00	0.00	4	1.00
		6	1.00	1.00	0.50	0.00	0.00	5	1.00
		7	1.00	1.00	0.50	0.00	0.00	6	1.00
		8	1.00	1.00	0.50	0.00	0.00	7	1.00
		9	1.00	1.00	0.50	0.00	0.00	8	1.00
		10	1.00	1.00	0.50	0.00	0.00	9	1.00
		11	1.00	1.00	0.50	0.00	0.00	10	1.00
		12	1.00	1.00	0.50	0.00	0.00	11	1.00
		13	1.00	1.00	0.50	0.00	0.00	12	1.00
		14	1.00	1.00	0.50	0.00	0.00	13	1.00
		15	1.00	1.00	0.50	0.00	0.00	14	1.00
		16	1.00	1.00	0.50	0.00	0.00	15	1.00
		17	1.00	1.00	0.50	0.00	0.00	1	1.00
		18	1.00	1.00	0.50	0.00	0.00	2	1.00
		19	1.00	1.00	1.00	0.00	0.00	1	-1.00
		20	1.00	1.00	1.00	0.00	0.00	2	-1.00

21	1.00	1.00	0.00	0.00	0.00	3	1.14
22	1.00	1.00	0.00	0.00	0.00	4	1.14
23	1.00	1.00	0.00	0.00	0.00	5	1.14
24	1.00	1.00	0.00	0.00	0.00	6	1.14
25	1.00	1.00	0.00	0.00	0.00	7	1.14
26	1.00	1.00	0.00	0.00	0.00	8	1.14
27	1.00	1.00	0.00	0.00	0.00	9	1.14
28	1.00	1.00	0.00	0.00	0.00	10	1.14
29	1.00	1.00	0.00	0.00	0.00	11	1.14
30	1.00	1.00	0.00	0.00	0.00	12	1.14
31	1.00	1.00	0.00	0.00	0.00	13	1.14
32	1.00	1.00	0.00	0.00	0.00	14	1.14
33	1.00	1.00	0.00	0.00	0.00	15	1.14
34	1.00	1.00	0.00	0.00	0.00	16	1.14
35	1.00	1.00	0.00	0.00	0.00	17	1.14

BRACING DESIGN LOADS:

Surf Id	No. Loads	Load Id	Dead	Collat	Live/ Snow	Wind Press	Wind Suct	Seis Load	Aux_Load Id	Aux_Load Coef
2	4	1	1.00	1.00	1.00	1.00	1.00	0.00	0	0.00
		2	1.07	1.07	0.20	0.00	0.00	1.00	0	0.00
		3	0.60	0.00	0.00	1.00	1.00	0.00	0	0.00
		4	0.67	0.00	0.00	0.00	0.00	1.00	0	0.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Add_Load Coef
17	1	----------	1	1	0.50
	2	----------	1	14	0.50
	3	----------	2	1	0.50
				2	0.50
	4	----------	2	2	0.50
				3	0.50
	5	----------	2	3	0.50
				4	0.50
	6	----------	2	4	0.50
				5	0.50
	7	----------	2	5	0.50
				6	0.50
	8	----------	2	6	0.50
				7	0.50
	9	----------	2	7	0.50
				8	0.50
	10	----------	2	8	0.50
				9	0.50
	11	----------	2	9	0.50
				10	0.50
	12	----------	2	10	0.50
				11	0.50
	13	----------	2	11	0.50
				12	0.50
	14	----------	2	12	0.50
				13	0.50
	15	----------	2	13	0.50
				14	0.50
	16	----------	7	1	0.50
				3	0.50

				5	0.50
				7	0.50
				9	0.50
				11	0.50
				13	0.50
17	----------		7	2	0.50
				4	0.50
				6	0.50
				8	0.50
				10	0.50
				12	0.50
				14	0.50

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Load	Load Type	Fy W1	Fy W2	Dx Dx1	Dx Dx2	.. Conc .. Dist
16	1	0	------	D	-35.0	-35.0	0.0	20.0	
	2	0	------	D	-35.0	-35.0	20.0	40.0	
	3	0	------	D	-35.0	-35.0	40.0	60.0	
	4	0	------	D	-35.0	-35.0	60.0	80.0	
	5	0	------	D	-35.0	-35.0	80.0	100.0	
	6	0	------	D	-35.0	-35.0	100.0	120.0	
	7	0	------	D	-35.0	-35.0	120.0	140.0	
	8	0	------	D	-35.0	-35.0	140.0	160.0	
	9	0	------	D	-35.0	-35.0	160.0	180.0	
	10	0	------	D	-35.0	-35.0	180.0	200.0	
	11	0	------	D	-35.0	-35.0	200.0	220.0	
	12	0	------	D	-35.0	-35.0	220.0	240.0	
	13	0	------	D	-35.0	-35.0	240.0	260.0	
	14	0	------	D	-35.0	-35.0	260.0	280.0	
	15	2	LIVE	D	-29.9	0.0	0.0	10.4	
	16	2	LIVE	D	0.0	-29.9	269.6	280.0	

RIGID FRAME #1:

BASIC LOADS:

Dead	Live	Snow	Collateral	Basic Wind	Defl Ratio
2.2	20.0	35.0	5.0	12.3	1.00

BASIC LOADS AT EAVE:

----Seismic-----			Weak_Axis_L		Weak_Axis_R		--Torsion--		-EW_Brace--	
Load	SpcEP	Coef	Wind	Seis	Wind	Seis	Wind	Seis	Wind	Seis
0.46	1.94	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WIND COEFFICIENTS:

Surf Id	--Wind_1--- Left	Right	--Wind_2--- Left	Right	Long_Wind 1	2	Surface Friction
1	0.30	-0.53	0.80	-0.12	-0.63	-0.63	0.00
2	-0.87	-0.87	-0.51	-0.51	-0.87	-0.87	0.00
3	-0.64	0.25	-0.15	0.65	-0.63	-0.63	0.00

DESIGN LOADS:

Load No.	Id	Dead	Coll	Live/ Snow	Live Right	-Wind_1-- Lt	Rt	-Wind_2-- Lt	Rt	Long_Wind Lt	Rt	-Seismic-- Long	Tran	Aux_Load 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	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	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
4	1.00	1.00	0.75	0.00	0.00	0.75	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	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
6	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	0.00
7	0.60	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
8	0.60	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
9	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
10	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
11	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
12	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
13	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
14	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
15	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
16	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00
17	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
18	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0.00	0	0.00
19	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
20	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
21	1.00	1.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0	0.00
22	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0.00	0	0.00

RIGID FRAME #2:

BASIC LOADS:

Dead	Live	Snow	Collateral	Basic Wind	Defl Ratio
2.2	20.0	35.0	5.0	12.3	1.00

BASIC LOADS AT EAVE:

----Seismic-----			Weak_Axis_L		Weak_Axis_R		--Torsion--		-EW_Brace--	
Load	SpcEP	Coef	Wind	Seis	Wind	Seis	Wind	Seis	Wind	Seis
0.79	3.32	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WIND COEFFICIENTS:

Surf	--Wind_1---		--Wind_2---		Long_Wind		Surface
Id	Left	Right	Left	Right	1	2	Friction
1	0.30	-0.53	0.80	-0.12	-0.63	-0.63	0.00
2	-0.87	-0.87	-0.51	-0.51	-0.87	-0.87	0.00
3	-0.64	0.25	-0.15	0.65	-0.63	-0.63	0.00

DESIGN LOADS:

Load				Live/	Live	-Wind_1--		-Wind_2--		Long_Wind		-Seismic--		Aux_Load	
No.	Id	Dead	Coll	Snow	Right	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	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	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	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.75	0.00	0.00	0.75	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	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	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	0.00
	7	0.60	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
	8	0.60	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
	9	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
	10	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
	11	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
	12	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
	13	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
	14	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

15	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
16	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00
17	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
18	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0.00	0	0.00
19	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
20	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
21	1.00	1.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0	0.00
22	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0.00	0	0.00

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	D	7	2.0	0.1	8	-1.8	0.1	2	0.750	5.00	8.00	0.500
		6	0.0	0.2								
1	C	7	2.1	0.2	8	-1.9	0.2	2	0.750	6.00	8.00	0.500
		6	0.0	0.4								
1	B	7	2.2	0.2	8	-2.0	0.2	2	0.750	6.00	8.00	0.500
		6	0.0	0.3								
15	A	7	0.0	-1.0	7	0.0	-1.0	2	0.750	5.00	8.00	0.500
		1	0.0	4.2								
15	B	7	2.1	-2.4	8	-1.9	-2.4	2	0.750	6.00	8.00	0.500
		1	0.0	8.8	7	2.1	-2.4					
15	C	7	2.1	-2.0	8	-1.9	-2.0	2	0.750	6.00	8.00	0.500
		1	0.0	7.7	7	2.1	-2.0					
15	D	7	2.0	-2.4	8	-1.8	-2.4	2	0.750	5.00	8.00	0.500
		1	0.0	8.7	7	2.0	-2.4					
15	E	7	0.0	-1.0	7	0.0	-1.0	2	0.750	5.00	8.00	0.500
		1	0.0	4.1								
1	E	1	9.7	16.2	2	-2.7	-2.9	4	0.750	6.00	13.00	0.500
1	A	3	2.8	-2.9	1	-9.7	16.5	4	0.750	8.00	13.00	0.500
		1	-9.7	16.5	3	2.8	-2.9					
*2	E	1	18.5	31.3	2	-5.4	-6.2	6	0.750	6.00	17.00	0.500
					4	-2.0	-6.9					
*2	A	3	5.5	-6.3	1	-18.5	31.5	6	0.750	6.00	17.00	0.500
		1	-18.5	31.5	5	2.2	-7.2					

*2 Frame Lines :2 3 4 5 6 7 8 9 10 11 12 13 14

Load Id	Load Combination
1	DL+CL+LL
2	0.60DL+WL1
3	0.60DL+WR1
4	0.60DL+LnWndL
5	0.60DL+LnWndR
6	1.07DL+1.07CL+0.75LL+1.05Seis_R
7	0.60DL+WR1+WS
8	0.60DL+WP+LnWndL

BRACING/PANEL SHEAR REACTIONS:

---Wall-- Loc	Line	Col Line	------Reactions(k)------- ----Wind---- Horz	Vert	--Seismic--- Horz	Vert	Panel Shear (lb/ft)
	1	Rigid Frame At Endwall					
	A	3 ,4	1.66	1.73	2.99	3.11	
		8 ,9	1.66	1.73	2.99	3.11	
		12,13	1.66	1.73	2.99	3.11	
	15	C	1.53	2.01	0.73	0.96	
		D	1.41	1.86	0.73	0.96	
	E	13,12	1.59	1.42	2.97	2.66	
		9 ,8	1.59	1.42	2.97	2.66	
		4 ,3	1.59	1.42	2.97	2.66	

Rigid Frame Column Reactions

Frame Line	Col Line	---Dead--- Horz	Vert	Collateral Horz	Vert	---Live--- Horz	Vert	--Live_R-- Horz	Vert	-Wind_L1- Horz	Vert
1	E	1.0	2.0	1.1	1.8	7.7	12.4	0.0	0.0	-3.3	-4.1
1	A	-1.0	2.2	-1.1	1.8	-7.7	12.5	0.0	0.0	1.0	-3.5
*2	E	1.6	3.3	2.1	3.5	14.8	24.5	0.0	0.0	-6.4	-8.2
*2	A	-1.6	3.4	-2.1	3.5	-14.8	24.5	0.0	0.0	1.9	-6.9

Frame Line	Col Line	-Wind_R1- Horz	Vert	-Wind_L2- Horz	Vert	-Wind_R2- Horz	Vert	Seismic_L- Horz	Vert	Seismic_R- Horz	Vert
1	E	-1.0	-3.4	-2.9	-2.6	-0.5	-1.8	-0.5	-0.3	0.5	0.3
1	A	3.4	-4.2	0.6	-1.9	2.9	-2.7	-0.4	0.3	0.4	-0.3
*2	E	-1.9	-6.7	-5.6	-5.0	-0.9	-3.6	-0.8	-0.4	0.8	0.4
*2	A	6.5	-8.3	1.2	-3.8	5.6	-5.2	-0.7	0.4	0.7	-0.4

Frame Line	Col Line	-LnWind_1- Horz	Vert	-LnWind_2- Horz	Vert	Ln_Seismic Horz	Vert
1	E	-1.5	-3.8	-1.5	-3.8	0.0	0.0
1	A	1.6	-3.8	1.6	-3.8	0.0	0.0
*2	E	-3.0	-8.9	-3.0	-8.9	0.0	-2.7
*2	A	3.2	-9.3	3.2	-9.3	0.0	-3.1

*2 Frame Lines :2 3 4 5 6 7 8 9 10 11 12 13 14

Endwall Column Reactions

Frame Line	Col Line	Dead Vert	Collat Vert	Live Vert	-Brc_Wind_L- Horz	-Brc_Wind_L- Vert	-Brc_Wind_R- Horz	-Brc_Wind_R- Vert	-Out_Of_Plane- Wind_P Horz	-Out_Of_Plane- Wind_S Horz
1	D	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-1.8	2.0
1	C	0.4	0.0	0.0	0.0	0.0	0.0	0.0	-1.9	2.1
1	B	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-2.0	2.2
15	A	0.6	0.5	3.2	0.0	-1.4	0.0	-1.4	0.0	0.0
15	B	0.9	1.0	6.9	0.0	-3.0	0.0	-3.0	-1.9	2.1
15	C	0.9	0.8	5.9	2.0	-5.2	0.0	-0.1	-1.9	2.1
15	D	0.9	1.0	6.9	0.0	-0.3	1.9	-5.4	-1.8	2.0
15	E	0.5	0.4	3.1	0.0	-1.3	0.0	-1.3	0.0	0.0

Endwall Column Reactions

Frame Line	Col Line	-Raf_Wind_L- Horz	-Raf_Wind_L- Vert	-Raf_Wind_R- Horz	-Raf_Wind_R- Vert	--Seismic_L- Horz	--Seismic_L- Vert	--Seismic_R- Horz	--Seismic_R- Vert	WindLn Vert
1	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	A	0.0	-1.4	0.0	-1.4	0.0	0.0	0.0	0.0	-1.4
15	B	0.0	-3.0	0.0	-3.0	0.0	0.0	0.0	0.0	-3.0
15	C	0.0	-2.5	0.0	-2.5	0.0	-1.0	0.0	0.9	-2.5
15	D	0.0	-2.9	0.0	-2.9	0.0	1.0	0.0	-1.0	-2.9
15	E	0.0	-1.3	0.0	-1.3	0.0	0.0	0.0	0.0	-1.3

Frame Line	Col Line	--Aux_ 1--- Horz	--Aux_ 1--- Vert	--Aux_ 2--- Horz	--Aux_ 2--- Vert	--Aux_ 3--- Horz	--Aux_ 3--- Vert	--Aux_ 4--- Horz	--Aux_ 4--- Vert	--Aux_ 5--- Horz	--Aux_ 5--- Vert
15	A	0.0	1.5	0.0	-0.1	0.0	0.0	0.0	1.7	0.0	-0.2
15	B	0.0	4.1	0.0	1.7	0.0	-0.2	0.0	1.9	0.0	2.0
15	C	0.0	1.7	0.0	4.0	0.0	1.7	0.0	1.7	0.0	1.7
15	D	0.0	-0.2	0.0	1.7	0.0	4.1	0.0	2.0	0.0	1.9
15	E	0.0	0.0	0.0	-0.1	0.0	1.4	0.0	-0.2	0.0	1.7

Building Data

```
  Code                =IBC  03
  Length              = 280.00
  Width               =  70.00
  Left  Eave Height   =  24.00
  Right Eave Height   =  26.92

Seismic Formula
---------------
 Rigid frame, endwall frame, wind bent, wind column & base reactions
  Shear Force, E      = Rho*0.667*Ie*Fa*Ss*W/(R*1.4)
 Diagonal bracing, splice at rigid frame & wind bent knee
  Shear Force, Em     = Omega*0.667*Ie*Fa*Ss*W/R

  Note: The value of E is included as E/1.4

  Zone/Design Category=   C
  Fa*Ss               =   0.560
  Ie                  =   1.000
  Rho                 =  2-20/(RMax*SQRT(Width*Length))

Seismic Dead Load, W
--------------------
  Snow   Factor       =   0.200
  Roof   Snow         =   35.00 (psf  )
  Roof   Dead+Collat  =    7.20 (psf  )
  Frame  Dead         =    2.00 (psf  )
  Roof   Total        =   16.20 (psf  )    , Weight= 317.52 (k )
  L_EW   Dead         =    2.00 (psf  )    , Weight=   1.78 (k )
  R_EW   Dead         =    2.00 (psf  )    , Weight=   1.78 (k )
  F_SW   Dead         =    2.00 (psf  )    , Weight=   7.54 (k )
  B_SW   Dead         =    2.00 (psf  )    , Weight=   6.72 (k )
                                                       -------
                                            Total = 335.34 (k )

Seismic Forces
--------------

  Roof Bracing
                R   =   5.0  , Rho = 1.00, RMax =  0.00, Omega= 2.00
                W   = 321.08 (k )
          Force, Em =  47.94 (k )

  Sidewall Bracing
    Front       R   =   5.0  , Rho = 1.00, RMax =  0.00, Omega= 3.00
                W   = 168.11 (k )
          Force, Em =  25.10 (k )
          Force, E  =   8.96 (k )
    Back        R   =   5.0  , Rho = 1.00, RMax =  0.00, Omega= 3.00
                W   = 167.23 (k )
          Force, Em =  24.97 (k )
          Force, E  =   8.91 (k )

  Endwall Bracing
    Right       R   =   5.0  , Rho = 1.00, RMax =  0.00, Omega= 2.00
                W   =  13.66 (k )
          Force, Em =   2.04 (k )
          Force, E  =   0.73 (k )
```

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Rigid Frames
                R   =   4.0   , Rho = 1.00, RMax =  0.00, Omega= 1.00
  Frame 1       W   =  13.81 (k )
        Force, E   =   0.92 (k )
  Frame 2       W   =  23.71 (k )
        Force, E   =   1.58 (k )

End Plates
  Frame       Omega=   3.00
```

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WEDGCOR, INC.

FRAMING SUMMARY
FOR
DOVETAIL GROUP

RANDY ACKERS

PORTLAND, ME
W28886

BUILDING DATA

Width (ft)	=	70.0
Length (ft)	=	280.0
Eave Height (ft)	=	24.0/ 26.9
Roof Slope (rise/12)	=	0.50
Dead Load (psf)	=	2.20
Live Load (psf)	=	20.00
Collat. Load (psf)	=	5.00
Snow Load (psf)	=	35.00
Wind Speed(mph)	=	90.0
Wind Code	=	IBC 03
Closed/Open	=	C
Exposure	=	B
Importance - Wind	=	1.00
Importance - Seismic	=	1.00
Seismic Zone	=	C
Seismic Coeff (Fa*Ss)	=	0.56

Designer = PWB

2/01/06

PURLIN LAYOUT:

Surface Id	Purlin Type	Surf_Ext Left	Surf_Ext Right	Stub_Purlin Left	Stub_Purlin Right	Total Rows	Peak Space	Set_Space-Space	Set_Space-Row
2	ZB	0.00	0.00	N	Y	15	0.833	4.615	14
								4.623	1

PURLIN & EAVE STRUT SIZE:

Surface Id	Bay Id	Purlin Size	-Purlin_Lap- Left	-Purlin_Lap- Right	IS_Flg Strap	Eave_B_SW Strut	Eave_F_SW Strut
2	1	9Z13		1.88	1	8C16L	8C16L
	2	9Z14	1.88	1.88	1	8C16L	8C16L
	3	9Z15	1.88	1.88	1	8C16L	8C16L
	4	9Z15	1.88	1.88	1	8C16L	8C16L
	5	9Z15	1.88	1.88	1	8C16L	8C16L
	6	9Z15	1.88	1.88	1	8C16L	8C16L
	7	9Z15	1.88	1.88	1	8C16L	8C16L
	8	9Z15	1.88	1.88	1	8C16L	8C16L
	9	9Z15	1.88	1.88	1	8C16L	8C16L
	10	9Z15	1.88	1.88	1	8C16L	8C16L
	11	9Z15	1.88	1.88	1	8C16L	8C16L
	12	9Z15	1.88	1.88	1	8C16L	8C16L
	13	9Z14	1.88	1.88	1	8C16L	8C16L
	14	9Z13	1.88		1	8C16L	8C16L

ROOF BRACING:

Bay Id	Brace Type	Attachment_Location (Distance measured from back sidewall) 0.0	18.4	36.9	50.7	70.0
3	Cable	0.500	0.313	0.313	0.500	
8	Cable	0.500	0.313	0.313	0.500	
12	Cable	0.500	0.313	0.313	0.500	

BOLTS AT EAVE STRUT:

Wall Id	Frame_Line Id	Lap Type	Lap Plate	Bolt_Size No.	Bolt_Size Type	Bolt_Size Dia	Bolt_Size Washer
2	3	RF	N	2	A325	0.500	2
2	4	RF	N	2	A325	0.500	2
2	8	RF	N	2	A325	0.500	2
2	9	RF	N	2	A325	0.500	2

2	12	RF	N	2	A325	0.500	2
2	13	RF	N	2	A325	0.500	2
4	3	RF	N	2	A325	0.500	2
4	4	RF	N	2	A325	0.500	2
4	8	RF	N	2	A325	0.500	2
4	9	RF	N	2	A325	0.500	2
4	12	RF	N	2	A325	0.500	2
4	13	RF	N	2	A325	0.500	2

PURLIN ANTI-ROLL:

Surf Id	Line Id	AntiRoll Type	Ds_A_Rol Id	No. Purlin	Purlin_Id
2	RF	Direct bolt	@002	1	15
2	R_EW	Direct bolt	@002	1	15

COLUMNS:

Column Id	Column Offset	Column Size	Column Length	---Base_Bolts-- No.	Type	Dia	---Top_Bolts-- No.	Type	Dia
2	17.5	W08542	19.8	0			2	A325	0.500
3	35.0	W08662	20.5	0			2	A325	0.500
4	52.5	W08642	21.3	0			2	A325	0.500

DOOR JAMBS/HEADERS:

Bay Id	----------Opening_Size---------- Width	Height	Sill	Offset	Member_Size---------- Left Jamb	Right Jamb	Door Header	Door Sill
2	14.0000	16.0000	0.000	2.5000	9C16	9C16	9C16	
3	14.0000	16.0000	0.000	1.0000	9C16	9C16	9C16	

PARTIAL WALLS:

--Bay_Id-- Start	End	Height	Base Type
1	4	4.00	A

GIRTS:

Girt Type	Bay Id	--Girt_Lap-- Left	Right	IS_Flg Strap
ZF	1			1
	2			1

3	1
4	1

GIRT LOCATION:

Bay Id	No. Girt	Girt_Location 1	2	3	4
1	4	7.3333	12.0833	16.8333	21.5000
2	4	7.3333	12.0833	16.8333	21.5000
3	4	7.3333	12.0833	16.8333	21.5000
4	4	7.3333	12.0833	16.8333	21.5000

GIRT SIZE: (Full Bay Girts)

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	9Z16	9Z16	9Z16	9Z16
2	2			9Z16	9Z16
3	2			9Z16	9Z16
4	4	9Z16	9Z16	9Z16	9Z16

GIRT SIZE: (Partial Bay Girts)

Bay Id	Girt Id	Girt Id 1	2	3	4
2	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		
3	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		

RAFTERS:

Rafter Id	Surf Id	Rafter Size	Rafter Length
1	2	W08542	20.5
2	2	W08542	17.5
3	2	W08542	32.1

SPLICE PLATES:

--Splice-- Id	Type	Surf Id	Locate	Plate_Size Width	Thick	----------Bolts---------- Type	Dia	Space	Gage	Row

| -- | ------ | ---- | ------ | ----- | ----- | ----- | ----- | ----- | ---- | --- |
| 1 | Moment | 2 | 20.5 | 5.0 | 0.375 | A325 | 0.500 | 3.00 | 3.0 | 4 |
| 2 | Moment | 2 | 38.0 | 5.0 | 0.375 | A325 | 0.500 | 3.00 | 3.0 | 4 |

COLUMNS:

Column Id	Column Offset	Column Size	Column Length	---Base_Bolts-- No.	Type	Dia	---Top_Bolts-- No.	Type	Dia
1	0.8	W08542	21.5	0			2	A325	0.500
2	17.5	W08642	20.8	0			4	A325	0.500
3	35.0	W08662	20.0	0			4	A325	0.500
4	52.5	W08542	19.3	0			4	A325	0.500
5	69.3	W08542	18.6	0			2	A325	0.500

PARTIAL WALLS:

--Bay_Id-- Start	End	Height	Base Type
1	4	4.00	A

GIRTS:

Girt Type	Bay Id	--Girt_Lap-- Left	Right	IS_Flg Strap
ZF	1			1
	2			1
	3			1
	4			1

GIRT LOCATION:

Bay Id	No. Girt	Girt_Location 1	2	3	4
1	4	7.3333	12.0833	16.8333	21.5000
2	4	7.3333	12.0833	16.8333	21.5000
3	4	7.3333	12.0833	16.8333	21.5000
4	4	7.3333	12.0833	16.8333	21.5000

GIRT SIZE: (Full Bay Girts)

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	9Z16	9Z16	9Z16	9Z16
2	4	9Z16	9Z16	9Z16	9Z16
3	4	9Z16	9Z16	9Z16	9Z16
4	4	9Z16	9Z16	9Z16	9Z16

WALL BRACING:

Bay Id	Brace Height	Brace Type	Brace Dia
3	23.54	Cable	0.313

DOOR JAMBS/HEADERS:

Bay Id	Opening_Size Width	Height	Sill	Offset	Member_Size Left Jamb	Right Jamb	Door Header	Door Sill
4	14.0000	16.0000	0.000	1.0000	9C16	9C16	9C16	
7	14.0000	16.0000	0.000	1.0000	9C16	9C16	9C16	
10	14.0000	16.0000	0.000	5.0000	9C16	9C16	9C16	
13	14.0000	16.0000	0.000	5.0000	9C16	9C16	9C16	

PARTIAL WALLS:

Bay_Id Start	Bay_Id End	Height	Base Type
1	1	26.92	A
2	14	4.00	A

GIRTS:

Girt Type	Bay Id	Girt_Lap Left	Girt_Lap Right	IS_Flg Strap
ZB	1			
	2	0.88	0.88	1
	3	0.88	0.88	1
	4	0.88	0.88	1
	5	0.88	0.88	1
	6	0.88	0.88	1
	7	0.88	0.88	1
	8	0.88	0.88	1
	9	0.88	0.88	1
	10	0.88	0.88	1
	11	0.88	0.88	1
	12	0.88	0.88	1
	13	0.88	0.88	1
	14	0.88		1

GIRT LOCATION:

Bay	No.	Girt_Location

Id	Girt	1	2	3	4
1	0				
2	4	7.3333	12.0833	16.8333	21.5000
3	4	7.3333	12.0833	16.8333	21.5000
4	4	7.3333	12.0833	16.8333	21.5000
5	4	7.3333	12.0833	16.8333	21.5000
6	4	7.3333	12.0833	16.8333	21.5000
7	4	7.3333	12.0833	16.8333	21.5000
8	4	7.3333	12.0833	16.8333	21.5000
9	4	7.3333	12.0833	16.8333	21.5000
10	4	7.3333	12.0833	16.8333	21.5000
11	4	7.3333	12.0833	16.8333	21.5000
12	4	7.3333	12.0833	16.8333	21.5000
13	4	7.3333	12.0833	16.8333	21.5000
14	4	7.3333	12.0833	16.8333	21.5000

GIRT SIZE: (Full Bay Girts)

Bay Id	No. Girt	Girt Id 1	2	3	4
2	4	9Z16	9Z16	9Z16	9Z16
3	4	9Z16	9Z16	9Z16	9Z16
4	2			9Z16	9Z16
5	4	9Z16	9Z16	9Z16	9Z16
6	4	9Z16	9Z16	9Z16	9Z16
7	2			9Z16	9Z16
8	4	9Z16	9Z16	9Z16	9Z16
9	4	9Z16	9Z16	9Z16	9Z16
10	2			9Z16	9Z16
11	4	9Z16	9Z16	9Z16	9Z16
12	4	9Z16	9Z16	9Z16	9Z16
13	2			9Z16	9Z16
14	4	9Z16	9Z16	9Z16	9Z16

GIRT SIZE: (Partial Bay Girts)

Bay Id	Girt Id	Girt Id 1	2	3	4
4	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		
7	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		
10	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		
13	L-J	9Z16	9Z16		
	J-R	9Z16	9Z16		

WALL BRACING:

Bay Id	Brace Height	Brace Type	Brace Dia

3	26.92	Rod	0.875
8	26.92	Rod	0.875
12	26.92	Rod	0.875

PARTIAL WALLS:

--Bay_Id-- Start	End	Height	Base Type
1	14	4.00	A

GIRTS:

Girt Type	Bay Id	--Girt_Lap-- Left	Right	IS_Flg Strap
ZB	1		0.88	1
	2	0.88	0.88	1
	3	0.88	0.88	1
	4	0.88	0.88	1
	5	0.88	0.88	1
	6	0.88	0.88	1
	7	0.88	0.88	1
	8	0.88	0.88	1
	9	0.88	0.88	1
	10	0.88	0.88	1
	11	0.88	0.88	1
	12	0.88	0.88	1
	13	0.88	0.88	1
	14	0.88		1

GIRT LOCATION:

Bay Id	No. Girt	Girt_Location 1	2	3	4
1	4	7.3333	12.0833	16.8333	21.5000
2	4	7.3333	12.0833	16.8333	21.5000
3	4	7.3333	12.0833	16.8333	21.5000
4	4	7.3333	12.0833	16.8333	21.5000
5	4	7.3333	12.0833	16.8333	21.5000
6	4	7.3333	12.0833	16.8333	21.5000
7	4	7.3333	12.0833	16.8333	21.5000
8	4	7.3333	12.0833	16.8333	21.5000
9	4	7.3333	12.0833	16.8333	21.5000
10	4	7.3333	12.0833	16.8333	21.5000
11	4	7.3333	12.0833	16.8333	21.5000
12	4	7.3333	12.0833	16.8333	21.5000

13	4	7.3333	12.0833	16.8333	21.5000
14	4	7.3333	12.0833	16.8333	21.5000

GIRT SIZE: (Full Bay Girts)

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	9Z16	9Z16	9Z16	9Z16
2	4	9Z16	9Z16	9Z16	9Z16
3	4	9Z16	9Z16	9Z16	9Z16
4	4	9Z16	9Z16	9Z16	9Z16
5	4	9Z16	9Z16	9Z16	9Z16
6	4	9Z16	9Z16	9Z16	9Z16
7	4	9Z16	9Z16	9Z16	9Z16
8	4	9Z16	9Z16	9Z16	9Z16
9	4	9Z16	9Z16	9Z16	9Z16
10	4	9Z16	9Z16	9Z16	9Z16
11	4	9Z16	9Z16	9Z16	9Z16
12	4	9Z16	9Z16	9Z16	9Z16
13	4	9Z16	9Z16	9Z16	9Z16
14	4	9Z16	9Z16	9Z16	9Z16

WALL BRACING:

Bay Id	Brace Height	Brace Type	Brace Dia
3	24.00	Rod	0.875
7	24.00	Rod	0.875
12	24.00	Rod	0.875

```
*=============================================================================
*W28886                    Roof Design Input                      2/ 1/06  9:46am
*=============================================================================



*----------------------
* < PROGRAM OPERATION >
*----------------------
*
*(1)JOBID:
    'W28886'

*(2)PROGRAM OPTIONS:
*    Run      Run      Run
*   Purlin   Panel    Brace
     'Y'      'Y'      'Y'

*(3)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code    Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(4)DESIGN CONSTANTS:                                                  Wind
* -----Steel_Yield(ksi  )----  ------Stress_Ratio------     Lap    Strength
* Purlin  Panel  R_Col  W_Col  Purlin Panel  Wind_Frame   Stiff    Factor
    55.0   80.0   36.0   50.0    1.03  1.03       1.03      0.50   1.0000

*(5)DEFLECTION LIMITS:
* ------Purlin------    ----Extension-----  Facia  ---Panel---  Facia  Wind
* Live    Wind  Total   Live   Wind  Total   Girt  Live   Wind  Panel  Frame
  180.0  120.0   0.0   180.0  120.0    0.0    0.0 180.0  120.0    0.0   60.0

*(6)REPORTS:
*   Input  Purlin  Purlin   Eave   Roof   Cable
*   Echo   Design  Summary  Strut  Panel  Brace
    'I'     'Y'     'Y'      'Y'    'Y'    'Y'

*(7)BUILDING TYPE:
* Build  L_Expand_EW  R_Expand_EW  ------Open_Wall-------
* Type   Use  Offset  Use  Offset  L_EW  F_SW  R_EW  B_SW
  'FF-'  'Y '  4.000  'N '  0.000  'N'   'N'   'N'   'N'

*--------------------
* < BUILDING LAYOUT >
*--------------------
*
*(8)SURFACE SHAPE:
*  No.   X_Coord   Y_Coord
* Surf     (ft)      (ft)
    3     0.0000   24.0000
         70.0000   26.9167
         70.0000    0.0000


*(9)WALL BAY SPACING:
```

```
* Wall  Sets_Of    Bay    No.
*  Id     Bays    Width  Bays
    1       1   17.5000   4

    2       1   20.0000  14

    3       1   17.5000   4

    4       1   20.0000  14

    5       1   20.0000  14


*(10)FRAMED OPENINGS:
* Wall   No.   Bay   Open      Open      Open   Open
*  Id   Opens  Id    Width     Height    Offset Type
    1     2     2  14.0000   16.0000   2.5000   1
                3  14.0000   16.0000   1.0000   1
    2     4     4  14.0000   16.0000   1.0000   1
                7  14.0000   16.0000   1.0000   1
               10  14.0000   16.0000   5.0000   1
               13  14.0000   16.0000   5.0000   1
    3     0
    4     0

*(11)PARTIAL WALLS:
* Wall  Set_Of  --Bay_Id--    Wall    Base  Full
*  Id    Bays   Start  End   Height   Type  Load  Use
   1       1       1     4   4.0000   'A '  'N'   '-'

   2       2       1     1  26.9167   'A '  'N'   '-'
                   2    14   4.0000   'A '  'N'   '-'

   3       1       1     4   4.0000   'A '  'N'   '-'

   4       1       1    14   4.0000   'A '  'N'   '-'


*(12)SURFACE EXTENSION/FRAME RECESS:
* Surf  ---Surf_Ext---  Frame_Recess      ----Rafter_Size-----
*  Id    Left    Right   Left    Right    Left         Right
    2   0.0000  0.0000  0.3333  0.3333   '8C16    '   'W08542  '

*-------------------
* < FRAMING DESIGN >
*-------------------
*

*(13)PURLINS:
* Surf  Purlin  OS_Flg  IS_Flg    Set       Set_Lap      Max_Unbr
*  Id    Type    Brace   Brace   Depth     Ext    Int     Length
    2    'ZB'     'C'     'Y'    0.000   1.8750  1.8750   19.0000

*(14)PURLIN SPACING:
* Surf   Peak      Max      Set   Set_Of  -Set_Space-
*  Id   Space     Space    Space   Space  Space   No.
    2   0.8333   5.0000  0.0000    2     4.61458  14
```

0.00000 1

```
*(15)PURLIN SIZE:
*   Surf  Set   No.
*    Id   Purl  Purl  Purlin_Size
      2   'Y'    16   '9Z13' '9Z13' '9Z14' '9Z15' '9Z15' '9Z15' '9Z15' '9Z15'
                      '9Z15' '9Z15' '9Z15' '9Z15' '9Z15' '9Z14' '9Z13' '9Z13'

*(16)PANELS & EAVE STRUT:
*   Panel       Standing  Eave_Type   ---Gutter---    Girt_Depth    Insulation
*    Size         Seam    F_SW B_SW   F_SW   B_SW    F_SW    B_SW   Use  Thick
    '26  HR  '    'N'     'EO' 'EO'   'N'    'N'     9.000   9.000  'N'  0.000

*(17)WIND FRAMING SELECTION:
*          -----------Order_Of_Selection-----------
* Wall   Panel  Diagonal  Wind   Wind   Weak_Axis
*  Id    Shear  Bracing   Bent  Column   Bending
    2     'N'     'Y '     'N'    'N'      'N'
    4     'N'     'Y '     'N'    'N'      'N'
    5     'N'     'Y '

*(18)ROOF DIAGONAL BRACING:
*   Max_Pan  Brace   Each  User_Selected_Roof_Bays
*    Shear    Type    EW   No.  Bay_Id
      75.0  'CR'     'L'   3     3  8 12
                           0

*(19)ROOF BRACING ATTACHMENT:
*Wall   No.
* Id   Attach  Attach_Location
   1      5  0.0000  17.5000  35.0000  52.5000  70.0000
   3      5  0.0000  17.5000  35.0000  52.5000  70.0000

*(20)SIDEWALL DIAGONAL BRACING:
* Wall    Max_Pan  Brace     User_Selected_SW_Bays
*  Id      Shear    Type     No.  Bay_Id
    2       75.0  'CR'       3     3  8 12
    4       75.0  'CR'       3     3  7 12

*(21)WIND BENTS:
*Wall  Member -----Column-----  -----Rafter-----  No.
* Id    Type  Depth    Size     Depth    Size     Bays  Bay_Id
   2    'W'    0.00 '--------'   0.00 '--------'    0
   4    'W'    0.00 '--------'   0.00 '--------'    0

*(22)WIND COLUMNS:
* Wall  Member -----Column-----   No.            Left/
*  Id    Type  Depth    Size     Col   Bay_Id   Right
    2    'W'    0.00 '--------'    0
    4    'W'    0.00 '--------'    0

*(23)WALL BRACING ATTACHMENT
*Wall    No.    Attach   --Bay_Id--                  No.   ----Level----
* Id    Attach    Id     Start  End Connect Option  Level  Height  Strut
   2       1       1       1    14    'F'     0       1   26.9167   'E'

   4       1       2       1    14    'F'     0       1   24.0000   'E'
```

```
*(24)INTERIOR BRACING
*No       Attach Brace    User_Selected_Int_Bays
*Brace    Offset Type     No.   Bay_Id
  0

*(25)INTERIOR BRACING ATTACHMENT
*  No.    Attach  --Bay_Id--    No.
* Attach  Offset  Start  End   Level  Level_Height
     0

*(26)EAVE EXTENSIONS SIZE:
*
*Wall   No.   Ext  --Bay_Id--  ---Extension_Size---  Edge_Extend     Eave
*Id    Extend  Id  Start  End  Height  Width  Slope  Left  Right     Type
  2      0
  4      0

*(27)EAVE EXTENSIONS PURLINS:
*
*Ext  Purlin OS_Flg IS_Flg   Set      Set_Lap     Max_UnBr  Peak    Max   Set
*Id    Type   Brace  Brace  Depth    Ext   Int    Length   Space  Space  Space

*(28)CANOPY          SIZE:
*
*Wall   No.   Ext  --Bay_Id--  ---Extension_Size---  Edge_Extend     Eave
*Id    Extend  Id  Start  End  Height  Width  Slope  Left  Right     Type
  1      0
  2      0
  3      0
  4      0

*(29)CANOPY          PURLINS:
*
*Ext  Purlin OS_Flg IS_Flg   Set      Set_Lap     Max_UnBr  Peak    Max   Set
*Id    Type   Brace  Brace  Depth    Ext   Int    Length   Space  Space  Space

*(30)CANOPY PANELS:
*
*Ext  Panel      Standing
*Id   Size         Seam

*(31)FACIA/PARAPET LAYOUT:
*
*Wall   No.   Ext       --Bay_Id--     Edge_Extend          Eave   Use
*Id    Extend  Id Type  Start  End    Left    Right   Mount  Type  Gutter
  1      0
  2      0
  3      0
  4      0

*(32)FACIA/PARAPET SIZE:
*
*Ext  ----Extension_Size-----   ---------Facia---------    Arm   Back    Facia
*Id    Height   Width   Slope     Elev   Height   Slope   Slope  Slope  Project
```

```
*(33)FACIA/PARAPET PURLINS:
*
*Ext  Purlin OS_Flg IS_Flg   Set      Set_Lap     Max_UnBr  Peak    Max   Set
*Id    Type   Brace  Brace  Depth    Ext    Int    Length   Space  Space Space

*(34)FACIA/PARAPET PANELS:
*
*Ext  ---Roof_Panel--  ----Soffit_Panel---  -Front_Panel--   ----Back_Panel-----
*Id   Size      SSeam  Size      Rot Space  Size      SSeam  Size      Rot Space

*(35)EXTENSION BRACING:
*
*Ext   Max_Pan  Brace  User_Selected_Bays
*Id     Shear   Type   No.  Bay_Id

*(36)BASE ELEVATION:
*   Sidewalls
* Front   Back
  48.00  48.00

*-----------------
* < DESIGN LOADS >
*-----------------
*

*(37)BASIC LOADS:                                        Wall
* Dead Collat Live  Snow  Basic Wind_Ld_Rat Frict    Edge  --Seis_Coef--  %
* Load  Load  Load  Load  Wind  Defl Factor Coef     Zone  Frame   Brace Snow
   2.2   5.0  20.0   35.0  12.3 1.00  1.00  0.0000 14.000 0.0533 0.1493 0.20

*(38)WIND PRESSURE/SUCTION: (psf  )
*
*    Wind   Wind   Wind
*    Press  Suct   Suct_Roof
      10.0  -13.3            .. Purlins
       0.0  -20.6            .. Purlins, Gable Extension
      10.0  -14.6            .. Interior Roof Panels
       5.3   -3.8     -8.5   .. Long Bracing, Building
       8.0   -5.7            .. Long Bracing, Wall Edge Zone
      22.2  -13.6      9.9   .. Long Bracing, Facia/Parapet

*(39)EDGE AND CORNER ZONES FOR PURLINS AND PANELS:
*
*       --------Left_End--------- ------Center------ --------Right_End--------
*Surface              ----Coeff---       ----Coeff---            ----Coeff---
*Id  Loc Width Length Purlin Panel Width Purlin Panel Width Length Purlin Panel
  2  'L'  7.00   7.00   1.18  1.00  7.00   1.18  1.00  7.00   7.00   1.18  1.00
     'C'  0.00   7.00   1.18  1.00  0.00   1.00  1.00  0.00   7.00   1.18  1.00
     'R'  7.00   7.00   1.18  1.00  7.00   1.18  1.00  7.00   7.00   1.18  1.00

*(40)EXTENSION BASIC LOADS:
*                       ------Purlin_Wind------   -------Panel_Wind--------
*Ext  Dead  Collat Live  Attach_Beam  Facia_Beam   Attach_Beam   Facia_Beam
*Id   Load   Load  Load  Press  Suct  Press  Suct  Press   Suct  Press  Suct

*(41)PURLIN DESIGN LOADS:
*
```

* Surf Id	No. Load	Load Id	Dead	Collat	Live/ Snow	Wind Press	Wind Suct	Aux_Load Id	Aux_Load Coef
2	35	1	1.00	1.00	1.00	0.00	0.00	0	0.00
		2	1.00	1.00	0.75	0.75	0.00	0	0.00
		3	0.60	0.00	0.00	0.00	1.00	0	0.00
		4	1.00	1.00	0.50	0.00	0.00	3	1.00
		5	1.00	1.00	0.50	0.00	0.00	4	1.00
		6	1.00	1.00	0.50	0.00	0.00	5	1.00
		7	1.00	1.00	0.50	0.00	0.00	6	1.00
		8	1.00	1.00	0.50	0.00	0.00	7	1.00
		9	1.00	1.00	0.50	0.00	0.00	8	1.00
		10	1.00	1.00	0.50	0.00	0.00	9	1.00
		11	1.00	1.00	0.50	0.00	0.00	10	1.00
		12	1.00	1.00	0.50	0.00	0.00	11	1.00
		13	1.00	1.00	0.50	0.00	0.00	12	1.00
		14	1.00	1.00	0.50	0.00	0.00	13	1.00
		15	1.00	1.00	0.50	0.00	0.00	14	1.00
		16	1.00	1.00	0.50	0.00	0.00	15	1.00
		17	1.00	1.00	0.50	0.00	0.00	1	1.00
		18	1.00	1.00	0.50	0.00	0.00	2	1.00
		19	1.00	1.00	1.00	0.00	0.00	1	-1.00
		20	1.00	1.00	1.00	0.00	0.00	2	-1.00
		21	1.00	1.00	0.00	0.00	0.00	3	1.14
		22	1.00	1.00	0.00	0.00	0.00	4	1.14
		23	1.00	1.00	0.00	0.00	0.00	5	1.14
		24	1.00	1.00	0.00	0.00	0.00	6	1.14
		25	1.00	1.00	0.00	0.00	0.00	7	1.14
		26	1.00	1.00	0.00	0.00	0.00	8	1.14
		27	1.00	1.00	0.00	0.00	0.00	9	1.14
		28	1.00	1.00	0.00	0.00	0.00	10	1.14
		29	1.00	1.00	0.00	0.00	0.00	11	1.14
		30	1.00	1.00	0.00	0.00	0.00	12	1.14
		31	1.00	1.00	0.00	0.00	0.00	13	1.14
		32	1.00	1.00	0.00	0.00	0.00	14	1.14
		33	1.00	1.00	0.00	0.00	0.00	15	1.14
		34	1.00	1.00	0.00	0.00	0.00	16	1.14
		35	1.00	1.00	0.00	0.00	0.00	17	1.14

*(42)PURLIN DESIGN LOADS: Deflection
*

* Surf Id	No. Load	Load Id	Dead	Collat	Live/ Snow	Wind Press	Wind Suct	Aux_Load Id	Aux_Load Coef
2	0								

*(43)BRACING DESIGN LOADS:
*

* Surf Id	No. Load	Load Id	Dead	Collat	Live/ Snow	Wind EW	Wind Roof	Seis	Aux_Load Id	Aux_Load Coef
2	4	1	1.00	1.00	1.00	1.00	1.00	0.00	0	0.00
		2	1.07	1.07	0.20	0.00	0.00	1.00	0	0.00
		3	0.60	0.00	0.00	1.00	1.00	0.00	0	0.00
		4	0.67	0.00	0.00	0.00	0.00	1.00	0	0.00

*(44)EXTENSION DESIGN LOADS:
*

* No. Load	Load Id	Dead	Collat	Live/ Snow	Wind Press	Wind Suct	Aux_Load Id	Aux_Load Coef

0

*(45)EXTENSION DESIGN LOADS: Deflection
*
* No. Load   Live/ Wind Wind Aux_Load
* Load Id Dead Collat Snow Press Suct Id Coef
0

*(46)AUXILIARY LOADS:

* No. Aux	Aux Id	Aux Name	No._Add Combs	Add_Load Id	Coef
17	1	'----------'	1	1	0.50
	2	'----------'	1	14	0.50
	3	'----------'	2	1	0.50
				2	0.50
	4	'----------'	2	2	0.50
				3	0.50
	5	'----------'	2	3	0.50
				4	0.50
	6	'----------'	2	4	0.50
				5	0.50
	7	'----------'	2	5	0.50
				6	0.50
	8	'----------'	2	6	0.50
				7	0.50
	9	'----------'	2	7	0.50
				8	0.50
	10	'----------'	2	8	0.50
				9	0.50
	11	'----------'	2	9	0.50
				10	0.50
	12	'----------'	2	10	0.50
				11	0.50
	13	'----------'	2	11	0.50
				12	0.50
	14	'----------'	2	12	0.50
				13	0.50
	15	'----------'	2	13	0.50
				14	0.50
	16	'----------'	7	1	0.50
				3	0.50
				5	0.50
				7	0.50
				9	0.50
				11	0.50
				13	0.50
	17	'----------'	7	2	0.50
				4	0.50
				6	0.50
				8	0.50
				10	0.50
				12	0.50
				14	0.50

*(47)ADDITIONAL LOADS: (F-lb/ft, W-psf, Dx-ft)

* No. Add	Add Id	Surf Id	Basic Load	Load Type	Fy W1	W2	Dx Dx1	Dx2	.. Conc .. Dist

```
   16     1      0  '------'     'D '   -35.0   -35.0   0.00  20.00
          2      0  '------'     'D '   -35.0   -35.0  20.00  40.00
          3      0  '------'     'D '   -35.0   -35.0  40.00  60.00
          4      0  '------'     'D '   -35.0   -35.0  60.00  80.00
          5      0  '------'     'D '   -35.0   -35.0  80.00 100.00
          6      0  '------'     'D '   -35.0   -35.0 100.00 120.00
          7      0  '------'     'D '   -35.0   -35.0 120.00 140.00
          8      0  '------'     'D '   -35.0   -35.0 140.00 160.00
          9      0  '------'     'D '   -35.0   -35.0 160.00 180.00
         10      0  '------'     'D '   -35.0   -35.0 180.00 200.00
         11      0  '------'     'D '   -35.0   -35.0 200.00 220.00
         12      0  '------'     'D '   -35.0   -35.0 220.00 240.00
         13      0  '------'     'D '   -35.0   -35.0 240.00 260.00
         14      0  '------'     'D '   -35.0   -35.0 260.00 280.00
         15      2  'LIVE  '     'D '   -29.9     0.0   0.00  10.36
         16      2  'LIVE  '     'D '     0.0   -29.9 269.64 280.00

*(48)PURLIN LAPS:
*Surf      Data  ------Set_1-------  ------Set_2-------  ------Set_3-------
* Id  Opt  Sets  Left    Right Quan  Left    Right Quan  Left    Right Quan
   2  '-'   0

*(49)PURLIN LAPS: Extensions
*
*Ext       Data  ------Set_1-------  ------Set_2-------  ------Set_3-------
* Id  Opt  Sets  Left    Right Quan  Left    Right Quan  Left    Right Quan

*(50)PURLIN STRAPS:
*          Data  ---Set_1---  ---Set_2---  ---Set_3---  ---Set_4---
*     Opt  Sets  Strap  Quan  Strap  Quan  Strap  Quan  Strap  Quan
      '-'   0

*(51)PURLIN STRAPS: Extensions
*
*Ext       Data  ---Set_1---  ---Set_2---  ---Set_3---  ---Set_4---
* Id  Opt  Sets  Strap  Quan  Strap  Quan  Strap  Quan  Strap  Quan

*(52)PANEL SCREWS:
* No.                      Screw   Washer    Screw    Tensile
*Zone  Zone  Part           Dia      Dia     Space   Strength
   0

* Code file used was ROOFIBC.03

==============================================================================
W28886                Roof Design Code                        2/ 1/06 10:06am
==============================================================================



   STRUCTURAL CODE:
     Design Basis       : WS
     Hot  Rolled Steel  : AISC89
     Cold Formed Steel  : AISI96

   BUILDING CODE:
     Wind Code          : IBC
```

Year : 03
Seismic Zone : C

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

ROOF PURLIN

DESIGN RUN # 1, SURFACE # 2
(Edge Strip Zone= 7.00)

PURLIN LAYOUT:

Bay Id	Span Id	Purlin Size	Span (ft)	---Lap(ft)-- Left	Right	Space	No. Row	No. Brace	Unit Weight	Total Weight
	1	9Z13	0.33			4.61	2	0	1.6	3.2
1	2	9Z13	19.67		1.88	4.61	2	1	103.1	206.3
2	3	9Z14	20.00	1.88	1.88	4.61	2	1	95.1	190.1
3	4	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
4	5	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
5	6	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
6	7	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
7	8	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
8	9	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
9	10	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
10	11	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
11	12	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
12	13	9Z15	20.00	1.88	1.88	4.61	2	1	85.1	170.1
13	14	9Z14	20.00	1.88	1.88	4.61	2	1	95.1	190.1
14	15	9Z13	19.67	1.88		4.61	2	1	103.1	206.3
	16	9Z13	0.33			4.61	2	0	1.6	3.2
										2500.3

Total(lb)= 2500.3

Purlin DL= 0.97 (psf)

LOAD COMBINATION # 3 : 0.6DL+WS

PURLIN ANALYSIS:

Span 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

1	0.00			0.02	0.00		0.00	0.00		0.00
2	-0.51		0.67	0.79	0.00		1.99	7.75	-1.35	-2.72
3	-0.69	-0.57	0.51	0.63	-2.72	-1.53	0.92	10.47	-1.03	-2.10
4	-0.66	-0.53	0.55	0.67	-2.10	-0.98	1.15	9.89	-1.10	-2.24
5	-0.67	-0.54	0.54	0.66	-2.24	-1.11	1.09	10.03	-1.08	-2.20
6	-0.66	-0.54	0.54	0.66	-2.20	-1.08	1.11	9.99	-1.09	-2.21
7	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.10	10.00	-1.08	-2.21
8	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.11	10.00	-1.08	-2.21
9	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.11	10.00	-1.08	-2.21
10	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.10	10.00	-1.09	-2.21
11	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.11	10.01	-1.08	-2.20
12	-0.66	-0.54	0.54	0.67	-2.20	-1.08	1.09	9.97	-1.11	-2.24
13	-0.67	-0.55	0.53	0.66	-2.24	-1.10	1.15	10.11	-0.98	-2.10
14	-0.63	-0.51	0.57	0.69	-2.10	-1.03	0.92	9.53	-1.53	-2.72
15	-0.79	-0.67		0.51	-2.72	-1.35	1.99	11.92		0.00
16	-0.02			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	0.02	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.02	
2	RL	0.67	7.37	0.09	MS	1.99	7.76	0.26	RL	0.03	0.24	1.97
3	LL	-0.57	4.25	0.13	LL	-1.53	7.43	0.21	LL	0.06	0.08	2.00
4	RL	0.55	2.89	0.19	MS	1.15	6.32	0.18	RL	0.07	0.15	2.00
5	LL	-0.54	2.89	0.19	LS	-1.12	6.35	0.18	LL	0.07	0.14	2.00
6	RL	0.54	2.89	0.19	MS	1.11	6.35	0.17	RL	0.06	0.14	2.00
7	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
8	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
9	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
10	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
11	LL	-0.54	2.89	0.19	MS	1.11	6.35	0.17	LL	0.06	0.14	2.00
12	RL	0.54	2.89	0.19	RS	-1.12	6.35	0.18	RL	0.07	0.14	2.00
13	LL	-0.55	2.89	0.19	MS	1.15	6.32	0.18	LL	0.07	0.15	2.00
14	RL	0.57	4.25	0.13	RL	-1.53	7.43	0.21	RL	0.06	0.08	2.00
15	LL	-0.67	7.37	0.09	MS	1.99	7.76	0.26	LL	0.03	0.24	1.97
16	LS	-0.02	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.33		0.15
3	0.39	0.26	0.18	0.12
4	0.29	0.30	0.13	0.14
5	0.30	0.29	0.14	0.13
6	0.29	0.30	0.13	0.13
7	0.30	0.29	0.13	0.13
8	0.29	0.29	0.13	0.13
9	0.29	0.29	0.13	0.13

10	0.29	0.30	0.13	0.13
11	0.30	0.29	0.13	0.13
12	0.29	0.30	0.13	0.14
13	0.30	0.29	0.14	0.13
14	0.26	0.39	0.12	0.18
15	0.33		0.15	

ROOF PURLIN

DESIGN RUN # 1, SURFACE # 2

PURLIN LAYOUT:

Bay Id	Span Id	Purlin Size	Span (ft)	---Lap(ft)-- Left	Right	Space	No. Row	No. Brace	Unit Weight	Total Weight
	1	9Z13	0.33			4.61	11	0	1.6	17.6
1	2	9Z13	19.67		1.88	4.61	11	1	103.1	1134.5
2	3	9Z14	20.00	1.88	1.88	4.61	11	1	95.1	1045.6
3	4	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
4	5	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
5	6	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
6	7	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
7	8	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
8	9	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
9	10	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
10	11	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
11	12	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
12	13	9Z15	20.00	1.88	1.88	4.61	11	1	85.1	935.6
13	14	9Z14	20.00	1.88	1.88	4.61	11	1	95.1	1045.6
14	15	9Z13	19.67	1.88		4.61	11	1	103.1	1134.5
	16	9Z13	0.33			4.61	11	0	1.6	17.6
										13751.6

Total(lb)= 13751.6

Purlin DL= 0.97 (psf)

LOAD COMBINATION # 3 : 0.6DL+WS

PURLIN ANALYSIS:

Span 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

1	0.00			0.02	0.00		0.00	0.00		0.00
2	-0.49		0.57	0.68	0.00		1.78	8.26	-1.16	-2.33
3	-0.58	-0.48	0.42	0.52	-2.33	-1.33	0.74	10.54	-0.85	-1.73
4	-0.55	-0.44	0.46	0.56	-1.73	-0.80	0.96	9.87	-0.92	-1.87
5	-0.55	-0.45	0.45	0.55	-1.87	-0.93	0.91	10.04	-0.90	-1.83
6	-0.55	-0.45	0.45	0.55	-1.83	-0.90	0.92	9.99	-0.90	-1.85
7	-0.55	-0.45	0.45	0.55	-1.85	-0.91	0.92	10.00	-0.90	-1.84
8	-0.55	-0.45	0.45	0.55	-1.84	-0.90	0.92	10.00	-0.90	-1.84
9	-0.55	-0.45	0.45	0.55	-1.84	-0.90	0.92	10.00	-0.90	-1.84
10	-0.55	-0.45	0.45	0.55	-1.84	-0.90	0.92	10.00	-0.91	-1.85
11	-0.55	-0.45	0.45	0.55	-1.85	-0.90	0.92	10.01	-0.90	-1.83
12	-0.55	-0.45	0.45	0.55	-1.83	-0.90	0.91	9.96	-0.93	-1.87
13	-0.56	-0.46	0.44	0.55	-1.87	-0.92	0.96	10.13	-0.80	-1.73
14	-0.52	-0.42	0.48	0.58	-1.73	-0.85	0.74	9.46	-1.33	-2.33
15	-0.68	-0.57		0.49	-2.33	-1.16	1.78	11.41		0.00
16	-0.02			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	0.02	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.01	
2	RL	0.57	7.37	0.08	MS	1.78	7.76	0.23	RL	0.02	0.22	1.97
3	LL	-0.48	4.25	0.11	LL	-1.33	7.43	0.18	LL	0.04	0.06	2.00
4	RL	0.46	2.89	0.16	MS	0.96	6.31	0.15	RL	0.05	0.13	2.00
5	LL	-0.45	2.89	0.16	LS	-0.94	6.35	0.15	LL	0.05	0.12	2.00
6	RL	0.45	2.89	0.16	MS	0.92	6.35	0.15	RL	0.04	0.12	2.00
7	LL	-0.45	2.89	0.16	LS	-0.92	6.35	0.15	LL	0.04	0.12	2.00
8	RL	0.45	2.89	0.16	RS	-0.92	6.35	0.15	RL	0.04	0.12	2.00
9	LL	-0.45	2.89	0.16	LS	-0.92	6.35	0.15	LL	0.04	0.12	2.00
10	RL	0.45	2.89	0.16	RS	-0.92	6.35	0.15	RL	0.04	0.12	2.00
11	LL	-0.45	2.89	0.16	MS	0.92	6.35	0.15	LL	0.04	0.12	2.00
12	RL	0.45	2.89	0.16	RS	-0.94	6.35	0.15	RL	0.05	0.12	2.00
13	LL	-0.46	2.89	0.16	MS	0.96	6.31	0.15	LL	0.05	0.13	2.00
14	RL	0.48	4.25	0.11	RL	-1.33	7.43	0.18	RL	0.04	0.06	2.00
15	LL	-0.57	7.37	0.08	MS	1.78	7.76	0.23	LL	0.02	0.22	1.97
16	LS	-0.02	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.01	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.28		0.13
3	0.34	0.22	0.15	0.10
4	0.24	0.25	0.11	0.11
5	0.25	0.24	0.11	0.11
6	0.24	0.25	0.11	0.11
7	0.25	0.25	0.11	0.11
8	0.25	0.25	0.11	0.11
9	0.25	0.25	0.11	0.11
10	0.25	0.25	0.11	0.11

11	0.25	0.24	0.11	0.11
12	0.24	0.25	0.11	0.11
13	0.25	0.24	0.11	0.11
14	0.22	0.34	0.10	0.15
15	0.28		0.13	

ROOF PURLIN

DESIGN RUN # 1, SURFACE # 2
(Edge Strip Zone= 7.00)

PURLIN LAYOUT:

Bay Id	Span Id	Purlin Size	Span (ft)	---Lap(ft)-- Left	Right	Space	No. Row	No. Brace	Unit Weight	Total Weight
	1	9Z13	0.33			4.61	1	0	1.6	1.6
1	2	9Z13	19.67		1.88	4.61	1	1	103.1	103.1
2	3	9Z14	20.00	1.88	1.88	4.61	1	1	95.1	95.1
3	4	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
4	5	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
5	6	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
6	7	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
7	8	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
8	9	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
9	10	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
10	11	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
11	12	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
12	13	9Z15	20.00	1.88	1.88	4.61	1	1	85.1	85.1
13	14	9Z14	20.00	1.88	1.88	4.61	1	1	95.1	95.1
14	15	9Z13	19.67	1.88		4.61	1	1	103.1	103.1
	16	9Z13	0.33			4.61	1	0	1.6	1.6
										1250.1

Total(lb)= 1250.1

Purlin DL= 0.97 (psf)

LOAD COMBINATION # 3 : 0.6DL+WS

PURLIN ANALYSIS:

Span 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

1	0.00			0.02	0.00		0.00	0.00		0.00
2	-0.51		0.67	0.79	0.00		1.99	7.75	-1.35	-2.72
3	-0.69	-0.57	0.51	0.63	-2.72	-1.53	0.92	10.47	-1.03	-2.10
4	-0.66	-0.53	0.55	0.67	-2.10	-0.98	1.15	9.89	-1.10	-2.24
5	-0.67	-0.54	0.54	0.66	-2.24	-1.11	1.09	10.03	-1.08	-2.20
6	-0.66	-0.54	0.54	0.66	-2.20	-1.08	1.11	9.99	-1.09	-2.21
7	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.10	10.00	-1.08	-2.21
8	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.11	10.00	-1.08	-2.21
9	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.11	10.00	-1.08	-2.21
10	-0.66	-0.54	0.54	0.66	-2.21	-1.08	1.10	10.00	-1.09	-2.21
11	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.11	10.01	-1.08	-2.20
12	-0.66	-0.54	0.54	0.67	-2.20	-1.08	1.09	9.97	-1.11	-2.24
13	-0.67	-0.55	0.53	0.66	-2.24	-1.10	1.15	10.11	-0.98	-2.10
14	-0.63	-0.51	0.57	0.69	-2.10	-1.03	0.92	9.53	-1.53	-2.72
15	-0.79	-0.67		0.51	-2.72	-1.35	1.99	11.92		0.00
16	-0.02			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	0.02	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.02	
2	RL	0.67	7.37	0.09	MS	1.99	7.76	0.26	RL	0.03	0.24	1.97
3	LL	-0.57	4.25	0.13	LL	-1.53	7.43	0.21	LL	0.06	0.08	2.00
4	RL	0.55	2.89	0.19	MS	1.15	6.32	0.18	RL	0.07	0.15	2.00
5	LL	-0.54	2.89	0.19	LS	-1.12	6.35	0.18	LL	0.07	0.14	2.00
6	RL	0.54	2.89	0.19	MS	1.11	6.35	0.17	RL	0.06	0.14	2.00
7	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
8	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
9	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
10	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
11	LL	-0.54	2.89	0.19	MS	1.11	6.35	0.17	LL	0.06	0.14	2.00
12	RL	0.54	2.89	0.19	RS	-1.12	6.35	0.18	RL	0.07	0.14	2.00
13	LL	-0.55	2.89	0.19	MS	1.15	6.32	0.18	LL	0.07	0.15	2.00
14	RL	0.57	4.25	0.13	RL	-1.53	7.43	0.21	RL	0.06	0.08	2.00
15	LL	-0.67	7.37	0.09	MS	1.99	7.76	0.26	LL	0.03	0.24	1.97
16	LS	-0.02	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.33		0.15
3	0.39	0.26	0.18	0.12
4	0.29	0.30	0.13	0.14
5	0.30	0.29	0.14	0.13
6	0.29	0.30	0.13	0.13
7	0.30	0.29	0.13	0.13
8	0.29	0.29	0.13	0.13
9	0.29	0.29	0.13	0.13
10	0.29	0.30	0.13	0.13

11	0.30	0.29	0.13	0.13
12	0.29	0.30	0.13	0.14
13	0.30	0.29	0.14	0.13
14	0.26	0.39	0.12	0.18
15	0.33		0.15	

ROOF PURLIN

DESIGN RUN # 1, SURFACE # 2
(Edge Strip Zone= 7.00)

PURLIN LAYOUT:

Bay Id	Span Id	Purlin Size	Span (ft)	---Lap(ft)-- Left	Right	Space	No. Row	No. Brace	Unit Weight	Total Weight
	1	9Z13	0.33			4.62	1	0	1.6	1.6
1	2	9Z13	19.67		1.88	4.62	1	1	103.1	103.1
2	3	9Z14	20.00	1.88	1.88	4.62	1	1	95.1	95.1
3	4	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
4	5	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
5	6	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
6	7	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
7	8	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
8	9	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
9	10	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
10	11	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
11	12	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
12	13	9Z15	20.00	1.88	1.88	4.62	1	1	85.1	85.1
13	14	9Z14	20.00	1.88	1.88	4.62	1	1	95.1	95.1
14	15	9Z13	19.67	1.88		4.62	1	1	103.1	103.1
	16	9Z13	0.33			4.62	1	0	1.6	1.6
										1250.1

Total(lb)= 1250.1

Purlin DL= 0.97 (psf)

LOAD COMBINATION # 1 : DL+CL+LL

PURLIN ANALYSIS:

Span 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

1	0.00			-0.11	0.00		0.00	0.00		0.02
2	2.04		-2.10	-2.46	0.02		-6.98	7.59	4.22	8.49
3	2.07	1.71	-1.46	-1.82	8.49	4.95	-2.52	10.63	2.95	6.02
4	1.92	1.55	-1.61	-1.98	6.02	2.77	-3.42	9.85	3.25	6.62
5	1.96	1.59	-1.57	-1.94	6.62	3.30	-3.20	10.04	3.16	6.46
6	1.95	1.58	-1.58	-1.95	6.46	3.15	-3.26	9.99	3.19	6.50
7	1.95	1.58	-1.58	-1.95	6.50	3.19	-3.24	10.00	3.18	6.49
8	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
9	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
10	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.24	10.00	3.19	6.50
11	1.95	1.58	-1.58	-1.95	6.50	3.19	-3.26	10.01	3.15	6.46
12	1.94	1.57	-1.59	-1.96	6.46	3.16	-3.20	9.96	3.30	6.62
13	1.98	1.61	-1.55	-1.92	6.62	3.25	-3.42	10.15	2.77	6.02
14	1.82	1.46	-1.71	-2.07	6.02	2.95	-2.52	9.37	4.95	8.49
15	2.46	2.10		-2.04	8.49	4.22	-6.98	12.08		0.02
16	0.11			0.00	0.02		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.11	7.37	0.01	RS	0.02	9.14	0.00	LS	0.00	0.04	
2	RL	-2.10	7.37	0.28	MS	-6.98	9.14	0.76	RL	0.29	-0.67	1.31
3	LL	1.71	4.25	0.40	LL	4.95	7.43	0.67	LL	0.61	-0.14	1.33
4	RL	-1.61	2.89	0.56	MS	-3.42	6.35	0.54	RL	0.57	-0.35	1.33
5	LL	1.59	2.89	0.55	LS	3.31	6.35	0.52	LL	0.57	-0.30	1.33
6	RL	-1.58	2.89	0.55	MS	-3.26	6.35	0.51	RL	0.55	-0.32	1.33
7	LL	1.58	2.89	0.55	LS	3.25	6.35	0.51	LL	0.55	-0.31	1.33
8	RL	-1.58	2.89	0.55	MS	-3.25	6.35	0.51	RL	0.55	-0.31	1.33
9	LL	1.58	2.89	0.55	MS	-3.25	6.35	0.51	LL	0.55	-0.31	1.33
10	RL	-1.58	2.89	0.55	RS	3.25	6.35	0.51	RL	0.55	-0.31	1.33
11	LL	1.58	2.89	0.55	MS	-3.26	6.35	0.51	LL	0.55	-0.32	1.33
12	RL	-1.59	2.89	0.55	RS	3.31	6.35	0.52	RL	0.57	-0.30	1.33
13	LL	1.61	2.89	0.56	MS	-3.42	6.35	0.54	LL	0.57	-0.35	1.33
14	RL	-1.71	4.25	0.40	RL	4.95	7.43	0.67	RL	0.61	-0.14	1.33
15	LL	2.10	7.37	0.28	MS	-6.98	9.14	0.76	LL	0.29	-0.67	1.31
16	LS	0.11	7.37	0.01	LS	0.02	9.14	0.00	LS	0.00	0.04	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		1.03		0.47
3	1.23	0.76	0.56	0.34
4	0.85	0.88	0.38	0.40
5	0.88	0.86	0.40	0.39
6	0.86	0.87	0.39	0.39
7	0.87	0.87	0.39	0.39
8	0.87	0.87	0.39	0.39
9	0.87	0.87	0.39	0.39
10	0.87	0.87	0.39	0.39

11	0.87	0.86	0.39	0.39
12	0.86	0.88	0.39	0.40
13	0.88	0.85	0.40	0.38
14	0.76	1.23	0.34	0.56
15	1.03		0.47	

LOAD COMBINATION # 2 : DL+CL+0.75LL+0.75WP

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) MidSpan Mom	Moment(f-k) MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.10	0.00		0.00	0.00		0.02
2	1.86		-2.00	-2.36	0.02		-6.53	7.58	4.04	8.13
3	2.00	1.65	-1.42	-1.78	8.13	4.71	-2.48	10.60	2.87	5.88
4	1.86	1.51	-1.56	-1.92	5.88	2.71	-3.31	9.86	3.15	6.42
5	1.90	1.54	-1.53	-1.88	6.42	3.19	-3.11	10.04	3.07	6.27
6	1.89	1.53	-1.54	-1.89	6.27	3.06	-3.16	9.99	3.09	6.31
7	1.89	1.54	-1.54	-1.89	6.31	3.10	-3.15	10.00	3.09	6.30
8	1.89	1.54	-1.54	-1.89	6.30	3.09	-3.15	10.00	3.09	6.30
9	1.89	1.54	-1.54	-1.89	6.30	3.09	-3.15	10.00	3.09	6.30
10	1.89	1.54	-1.54	-1.89	6.30	3.09	-3.15	10.00	3.10	6.31
11	1.89	1.54	-1.53	-1.89	6.31	3.09	-3.16	10.01	3.06	6.27
12	1.88	1.53	-1.54	-1.90	6.27	3.07	-3.11	9.96	3.19	6.42
13	1.92	1.56	-1.51	-1.86	6.42	3.15	-3.31	10.14	2.71	5.88
14	1.78	1.42	-1.65	-2.00	5.88	2.87	-2.48	9.40	4.71	8.13
15	2.36	2.00		-1.86	8.13	4.04	-6.53	12.09		0.02
16	0.10			0.00	0.02		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.10	7.37	0.01	RS	0.02	9.14	0.00	LS	0.00	0.04	
2	RL	-2.00	7.37	0.27	MS	-6.53	9.14	0.71	RL	0.27	-0.62	1.97
3	LL	1.65	4.25	0.39	LL	4.71	7.43	0.63	LL	0.55	-0.15	2.00
4	RL	-1.56	2.89	0.54	MS	-3.31	6.35	0.52	RL	0.54	-0.33	2.00
5	LL	1.54	2.89	0.53	LS	3.21	6.35	0.51	LL	0.54	-0.29	2.00
6	RL	-1.54	2.89	0.53	MS	-3.16	6.35	0.50	RL	0.52	-0.30	2.00
7	LL	1.54	2.89	0.53	LS	3.16	6.35	0.50	LL	0.52	-0.30	2.00
8	RL	-1.54	2.89	0.53	RS	3.15	6.35	0.50	RL	0.52	-0.30	2.00
9	LL	1.54	2.89	0.53	LS	3.15	6.35	0.50	LL	0.52	-0.30	2.00
10	RL	-1.54	2.89	0.53	RS	3.16	6.35	0.50	RL	0.52	-0.30	2.00
11	LL	1.54	2.89	0.53	MS	-3.16	6.35	0.50	LL	0.52	-0.30	2.00
12	RL	-1.54	2.89	0.53	RS	3.21	6.35	0.51	RL	0.54	-0.29	2.00
13	LL	1.56	2.89	0.54	MS	-3.31	6.35	0.52	LL	0.54	-0.33	2.00
14	RL	-1.65	4.25	0.39	RL	4.71	7.43	0.63	RL	0.55	-0.15	2.00
15	LL	2.00	7.37	0.27	MS	-6.53	9.14	0.71	LL	0.27	-0.62	1.97
16	LS	0.10	7.37	0.01	LS	0.02	9.14	0.00	LS	0.00	0.04	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.99		0.45
3	1.18	0.74	0.53	0.34
4	0.83	0.86	0.37	0.39
5	0.86	0.84	0.39	0.38
6	0.84	0.84	0.38	0.38
7	0.84	0.84	0.38	0.38
8	0.84	0.84	0.38	0.38
9	0.84	0.84	0.38	0.38
10	0.84	0.84	0.38	0.38
11	0.84	0.84	0.38	0.38
12	0.84	0.86	0.38	0.39
13	0.86	0.83	0.39	0.37
14	0.74	1.18	0.34	0.53
15	0.99		0.45	

LOAD COMBINATION # 3 : 0.6DL+WS

PURLIN ANALYSIS:

Span 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
1	0.00			0.02	0.00		0.00	0.00		0.00
2	-0.52		0.67	0.79	0.00		1.99	7.75	-1.36	-2.72
3	-0.70	-0.57	0.51	0.63	-2.72	-1.54	0.92	10.47	-1.03	-2.10
4	-0.66	-0.53	0.55	0.67	-2.10	-0.98	1.15	9.89	-1.10	-2.25
5	-0.67	-0.54	0.54	0.66	-2.25	-1.11	1.10	10.03	-1.08	-2.21
6	-0.66	-0.54	0.54	0.67	-2.21	-1.08	1.11	9.99	-1.09	-2.22
7	-0.66	-0.54	0.54	0.66	-2.22	-1.09	1.11	10.00	-1.09	-2.21
8	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.11	10.00	-1.09	-2.22
9	-0.66	-0.54	0.54	0.66	-2.22	-1.09	1.11	10.00	-1.09	-2.21
10	-0.66	-0.54	0.54	0.66	-2.21	-1.09	1.11	10.00	-1.09	-2.22
11	-0.67	-0.54	0.54	0.66	-2.22	-1.09	1.11	10.01	-1.08	-2.21
12	-0.66	-0.54	0.54	0.67	-2.21	-1.08	1.10	9.97	-1.11	-2.25
13	-0.67	-0.55	0.53	0.66	-2.25	-1.10	1.15	10.11	-0.98	-2.10
14	-0.63	-0.51	0.57	0.70	-2.10	-1.03	0.92	9.53	-1.54	-2.72
15	-0.79	-0.67		0.52	-2.72	-1.36	1.99	11.92		0.00
16	-0.02			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)	Moment(f-k)	Mom+Shr	Deflection(in)

Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	0.02	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.02	
2	RL	0.67	7.37	0.09	MS	1.99	7.76	0.26	RL	0.03	0.24	1.97
3	LL	-0.57	4.25	0.13	LL	-1.54	7.43	0.21	LL	0.06	0.08	2.00
4	RL	0.55	2.89	0.19	MS	1.15	6.32	0.18	RL	0.07	0.15	2.00
5	LL	-0.54	2.89	0.19	LS	-1.12	6.35	0.18	LL	0.07	0.14	2.00
6	RL	0.54	2.89	0.19	MS	1.11	6.35	0.18	RL	0.06	0.14	2.00
7	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
8	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
9	LL	-0.54	2.89	0.19	LS	-1.11	6.35	0.17	LL	0.06	0.14	2.00
10	RL	0.54	2.89	0.19	RS	-1.11	6.35	0.17	RL	0.06	0.14	2.00
11	LL	-0.54	2.89	0.19	MS	1.11	6.35	0.18	LL	0.06	0.14	2.00
12	RL	0.54	2.89	0.19	RS	-1.12	6.35	0.18	RL	0.07	0.14	2.00
13	LL	-0.55	2.89	0.19	MS	1.15	6.32	0.18	LL	0.07	0.15	2.00
14	RL	0.57	4.25	0.13	RL	-1.54	7.43	0.21	RL	0.06	0.08	2.00
15	LL	-0.67	7.37	0.09	MS	1.99	7.76	0.26	LL	0.03	0.24	1.97
16	LS	-0.02	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right
2		0.33		0.15
3	0.39	0.26	0.18	0.12
4	0.30	0.30	0.13	0.14
5	0.30	0.29	0.14	0.13
6	0.29	0.30	0.13	0.13
7	0.30	0.30	0.13	0.13
8	0.30	0.30	0.13	0.13
9	0.30	0.30	0.13	0.13
10	0.30	0.30	0.13	0.13
11	0.30	0.29	0.13	0.13
12	0.29	0.30	0.13	0.14
13	0.30	0.30	0.14	0.13
14	0.26	0.39	0.12	0.18
15	0.33		0.15	

LOAD COMBINATION # 4 : DL+CL+LL/2+AUX3

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
1	0.00			-0.09	0.00		0.00	0.00		0.01
2	1.76		-2.05	-2.41	0.01		-6.26	7.50	4.46	8.64
3	2.15	1.78	-1.38	-1.75	8.64	4.96	-3.20	11.02	1.72	4.66

4	1.19	0.98	-0.87	-1.09	4.66	2.62	-1.60	10.48	1.74	3.57
5	1.13	0.91	-0.94	-1.15	3.57	1.66	-1.99	9.87	1.90	3.86
6	1.14	0.93	-0.92	-1.14	3.86	1.92	-1.88	10.03	1.85	3.78
7	1.14	0.93	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.87	3.81
8	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.86	3.80
9	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
10	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.87	3.81
11	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.91	10.01	1.85	3.78
12	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.09	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.04	
2	RL	-2.05	7.37	0.28	MS	-6.26	9.14	0.69	RL	0.32	-0.57	1.31
3	LL	1.78	4.25	0.42	LL	4.96	7.43	0.67	LL	0.62	-0.27	1.33
4	LL	0.98	2.89	0.34	LL	2.62	6.35	0.41	LL	0.29	-0.08	1.33
5	RL	-0.94	2.89	0.33	MS	-1.99	6.35	0.31	RL	0.20	-0.18	1.33
6	LL	0.93	2.89	0.32	LS	1.93	6.35	0.30	LL	0.19	-0.15	1.33
7	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
8	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
9	LL	0.93	2.89	0.32	MS	-1.90	6.35	0.30	LL	0.19	-0.16	1.33
10	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		1.05		0.48
3	1.25	0.59	0.57	0.27
4	0.66	0.48	0.30	0.22
5	0.48	0.51	0.22	0.23
6	0.51	0.50	0.23	0.23
7	0.50	0.51	0.23	0.23
8	0.51	0.51	0.23	0.23
9	0.51	0.51	0.23	0.23
10	0.51	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23

14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION # 5 : DL+CL+LL/2+AUX4

PURLIN ANALYSIS:

Span	Shear(k)				Moment(f-k)					
	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.08		-1.28	-1.49	0.01		-3.53	7.07	3.61	6.21
3	1.91	1.55	-1.62	-1.99	6.21	2.97	-3.16	9.81	3.59	6.97
4	2.04	1.68	-1.49	-1.86	6.97	3.48	-3.72	10.47	1.98	5.12
5	1.22	1.01	-0.84	-1.06	5.12	3.03	-1.45	10.73	1.67	3.45
6	1.12	0.90	-0.95	-1.16	3.45	1.55	-2.03	9.80	1.92	3.90
7	1.15	0.93	-0.92	-1.13	3.90	1.95	-1.87	10.05	1.85	3.78
8	1.14	0.92	-0.93	-1.14	3.78	1.84	-1.91	9.99	1.87	3.81
9	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.86	3.80
10	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.87	3.81
11	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.91	10.01	1.85	3.78
12	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.28	7.37	0.17	RL	3.61	9.14	0.40	RL	0.19	-0.23	1.31
3	RL	-1.62	4.25	0.38	RS	3.67	7.43	0.49	RL	0.38	-0.28	1.33
4	LL	1.68	2.89	0.58	MS	-3.72	6.35	0.59	LL	0.64	-0.42	1.33
5	LL	1.01	2.89	0.35	LL	3.03	6.35	0.48	LL	0.35	-0.05	1.33
6	RL	-0.95	2.89	0.33	MS	-2.03	6.35	0.32	RL	0.20	-0.19	1.33
7	LL	0.93	2.89	0.32	LS	1.95	6.35	0.31	LL	0.20	-0.15	1.33
8	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
9	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
10	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.76		0.34
3	0.90	0.88	0.41	0.40
4	0.98	0.68	0.44	0.31
5	0.68	0.46	0.31	0.21
6	0.46	0.52	0.21	0.24
7	0.52	0.50	0.24	0.23
8	0.50	0.51	0.23	0.23
9	0.51	0.51	0.23	0.23
10	0.51	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION # 6 : DL+CL+LL/2+AUX5

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.17		-1.20	-1.41	0.01		-4.13	7.73	2.12	4.56
3	1.12	0.91	-0.94	-1.16	4.56	2.65	-0.99	9.87	2.90	4.87
4	1.83	1.46	-1.70	-2.07	4.87	1.78	-3.72	9.38	3.73	7.27
5	2.06	1.70	-1.47	-1.84	7.27	3.75	-3.62	10.57	1.94	5.04
6	1.22	1.00	-0.85	-1.06	5.04	2.95	-1.47	10.69	1.68	3.47
7	1.12	0.91	-0.95	-1.16	3.47	1.57	-2.02	9.82	1.91	3.89
8	1.15	0.93	-0.92	-1.13	3.89	1.94	-1.87	10.05	1.85	3.78
9	1.14	0.93	-0.93	-1.14	3.78	1.84	-1.91	9.99	1.87	3.81
10	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.87	3.80
11	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.91	10.01	1.85	3.78
12	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	

2	RL	-1.20	7.37	0.16	MS	-4.13	9.14	0.45	RS	0.08	-0.37	1.31
3	RL	-0.94	4.25	0.22	RL	2.90	7.43	0.39	RL	0.20	0.03	1.33
4	RL	-1.70	2.89	0.59	RL	3.73	6.35	0.59	RL	0.69	-0.41	1.33
5	LL	1.70	2.89	0.59	LL	3.75	6.35	0.59	LL	0.69	-0.39	1.33
6	LL	1.00	2.89	0.35	LL	2.95	6.35	0.47	LL	0.34	-0.05	1.33
7	RL	-0.95	2.89	0.33	MS	-2.02	6.35	0.32	RL	0.20	-0.19	1.33
8	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
9	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
10	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.56		0.25
3	0.66	0.61	0.30	0.28
4	0.68	0.97	0.31	0.44
5	0.97	0.67	0.44	0.30
6	0.67	0.46	0.30	0.21
7	0.46	0.52	0.21	0.23
8	0.52	0.50	0.23	0.23
9	0.50	0.51	0.23	0.23
10	0.51	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION # 7 : DL+CL+LL/2+AUX6

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.14		-1.22	-1.43	0.01		-3.95	7.54	2.54	5.03
3	1.23	1.02	-0.83	-1.05	5.03	2.92	-1.64	10.81	1.42	3.18
4	1.04	0.83	-1.02	-1.24	3.18	1.43	-1.59	9.15	3.01	5.13
5	1.85	1.48	-1.69	-2.05	5.13	2.01	-3.61	9.47	3.69	7.20
6	2.06	1.69	-1.48	-1.84	7.20	3.69	-3.65	10.55	1.95	5.06

7	1.22	1.01	-0.85	-1.06	5.06	2.97	-1.47	10.70	1.68	3.46
8	1.12	0.91	-0.95	-1.16	3.46	1.57	-2.03	9.81	1.91	3.89
9	1.15	0.93	-0.92	-1.13	3.89	1.94	-1.87	10.05	1.85	3.78
10	1.14	0.92	-0.93	-1.14	3.78	1.84	-1.91	9.98	1.87	3.81
11	1.14	0.93	-0.92	-1.14	3.81	1.87	-1.91	10.01	1.85	3.78
12	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.22	7.37	0.17	MS	-3.95	9.14	0.43	RL	0.10	-0.33	1.31
3	LL	1.02	4.25	0.24	LL	2.92	7.43	0.39	LL	0.21	-0.10	1.33
4	RL	-1.02	2.89	0.35	RL	3.01	6.35	0.47	RL	0.35	-0.07	1.33
5	RL	-1.69	2.89	0.58	RL	3.69	6.35	0.58	RL	0.68	-0.39	1.33
6	LL	1.69	2.89	0.59	LL	3.69	6.35	0.58	LL	0.68	-0.40	1.33
7	LL	1.01	2.89	0.35	LL	2.97	6.35	0.47	LL	0.34	-0.05	1.33
8	RL	-0.95	2.89	0.33	MS	-2.03	6.35	0.32	RL	0.20	-0.19	1.33
9	LL	0.93	2.89	0.32	LS	1.95	6.35	0.31	LL	0.20	-0.15	1.33
10	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	LS	1.91	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.61		0.28
3	0.73	0.40	0.33	0.18
4	0.45	0.68	0.20	0.31
5	0.68	0.96	0.31	0.43
6	0.96	0.67	0.43	0.31
7	0.67	0.46	0.31	0.21
8	0.46	0.52	0.21	0.23
9	0.52	0.50	0.23	0.23
10	0.50	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION # 8 : DL+CL+LL/2+AUX7

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-4.00	7.59	2.43	4.90
3	1.20	0.99	-0.86	-1.08	4.90	2.85	-1.45	10.56	1.81	3.63
4	1.15	0.93	-0.92	-1.14	3.63	1.69	-2.12	10.04	1.61	3.54
5	1.07	0.85	-1.00	-1.22	3.54	1.74	-1.44	9.34	2.96	5.03
6	1.84	1.47	-1.69	-2.06	5.03	1.93	-3.65	9.44	3.71	7.23
7	2.06	1.69	-1.48	-1.84	7.23	3.71	-3.64	10.56	1.94	5.05
8	1.22	1.01	-0.85	-1.06	5.05	2.96	-1.47	10.69	1.68	3.47
9	1.12	0.91	-0.95	-1.16	3.47	1.57	-2.03	9.81	1.91	3.89
10	1.15	0.93	-0.92	-1.13	3.89	1.94	-1.87	10.05	1.85	3.78
11	1.14	0.93	-0.93	-1.14	3.78	1.84	-1.92	10.00	1.85	3.79
12	1.14	0.92	-0.93	-1.14	3.79	1.86	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-4.00	9.14	0.44	RL	0.10	-0.34	1.31
3	LL	0.99	4.25	0.23	LL	2.85	7.43	0.38	LL	0.20	-0.06	1.33
4	LL	0.93	2.89	0.32	MS	-2.12	6.35	0.33	LL	0.17	-0.20	1.33
5	RL	-1.00	2.89	0.35	RL	2.96	6.35	0.47	RL	0.34	-0.05	1.33
6	RL	-1.69	2.89	0.59	RL	3.71	6.35	0.58	RL	0.68	-0.40	1.33
7	LL	1.69	2.89	0.59	LL	3.71	6.35	0.58	LL	0.68	-0.40	1.33
8	LL	1.01	2.89	0.35	LL	2.96	6.35	0.47	LL	0.34	-0.05	1.33
9	RL	-0.95	2.89	0.33	MS	-2.03	6.35	0.32	RL	0.20	-0.19	1.33
10	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
11	RL	-0.93	2.89	0.32	MS	-1.92	6.35	0.30	RL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.30	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.60		0.27
3	0.71	0.46	0.32	0.21
4	0.51	0.47	0.23	0.21
5	0.47	0.67	0.21	0.30
6	0.67	0.96	0.30	0.44
7	0.96	0.67	0.44	0.30
8	0.67	0.46	0.30	0.21
9	0.46	0.52	0.21	0.23
10	0.52	0.50	0.23	0.23
11	0.50	0.51	0.23	0.23
12	0.51	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION # 9 : DL+CL+LL/2+AUX8

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.46	4.94
3	1.21	1.00	-0.86	-1.07	4.94	2.86	-1.50	10.62	1.71	3.51
4	1.12	0.90	-0.95	-1.16	3.51	1.62	-1.97	9.80	1.98	3.96
5	1.17	0.95	-0.90	-1.11	3.96	1.98	-2.00	10.23	1.56	3.45
6	1.06	0.85	-1.01	-1.22	3.45	1.66	-1.48	9.29	2.97	5.06
7	1.84	1.48	-1.69	-2.06	5.06	1.95	-3.64	9.45	3.70	7.22
8	2.06	1.69	-1.48	-1.84	7.22	3.70	-3.64	10.56	1.94	5.05
9	1.22	1.01	-0.85	-1.06	5.05	2.97	-1.47	10.70	1.68	3.46
10	1.12	0.90	-0.95	-1.16	3.46	1.57	-2.02	9.81	1.92	3.90
11	1.15	0.93	-0.92	-1.13	3.90	1.95	-1.87	10.06	1.83	3.76
12	1.13	0.92	-0.93	-1.15	3.76	1.83	-1.88	9.95	1.93	3.88
13	1.16	0.94	-0.91	-1.12	3.88	1.91	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.39	LL	0.20	-0.07	1.33
4	RL	-0.95	2.89	0.33	RL	1.98	6.35	0.31	RL	0.21	-0.17	1.33

5	LL	0.95	2.89	0.33	MS	-2.00	6.35	0.32	LL	0.21	-0.18	1.33
6	RL	-1.01	2.89	0.35	RL	2.97	6.35	0.47	RL	0.34	-0.05	1.33
7	RL	-1.69	2.89	0.59	RL	3.70	6.35	0.58	RL	0.68	-0.40	1.33
8	LL	1.69	2.89	0.59	LL	3.70	6.35	0.58	LL	0.68	-0.40	1.33
9	LL	1.01	2.89	0.35	LL	2.97	6.35	0.47	LL	0.34	-0.05	1.33
10	RL	-0.95	2.89	0.33	MS	-2.02	6.35	0.32	RL	0.20	-0.19	1.33
11	LL	0.93	2.89	0.32	LS	1.95	6.35	0.31	LL	0.20	-0.15	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.39	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.60		0.27
3	0.72	0.44	0.32	0.20
4	0.49	0.53	0.22	0.24
5	0.53	0.46	0.24	0.21
6	0.46	0.67	0.21	0.31
7	0.67	0.96	0.31	0.44
8	0.96	0.67	0.44	0.31
9	0.67	0.46	0.31	0.21
10	0.46	0.52	0.21	0.24
11	0.52	0.50	0.24	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.22
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION #10 : DL+CL+LL/2+AUX9

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.74	3.54
4	1.13	0.91	-0.94	-1.16	3.54	1.63	-2.01	9.87	1.88	3.85
5	1.14	0.93	-0.93	-1.14	3.85	1.91	-1.84	9.99	1.93	3.87
6	1.16	0.95	-0.91	-1.12	3.87	1.90	-2.03	10.18	1.57	3.47
7	1.06	0.85	-1.01	-1.22	3.47	1.68	-1.47	9.31	2.97	5.05
8	1.84	1.48	-1.69	-2.06	5.05	1.94	-3.64	9.44	3.71	7.22
9	2.06	1.69	-1.48	-1.84	7.22	3.71	-3.64	10.56	1.94	5.05

10	1.22	1.01	-0.85	-1.06	5.05	2.97	-1.47	10.69	1.68	3.47
11	1.12	0.91	-0.95	-1.16	3.47	1.57	-2.03	9.82	1.90	3.87
12	1.14	0.93	-0.93	-1.14	3.87	1.93	-1.84	10.01	1.91	3.85
13	1.16	0.94	-0.91	-1.13	3.85	1.88	-2.01	10.13	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.74	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.01	6.35	0.32	RL	0.19	-0.18	1.33
5	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.30	RL	0.20	-0.14	1.33
6	LL	0.95	2.89	0.33	MS	-2.03	6.35	0.32	LL	0.20	-0.19	1.33
7	RL	-1.01	2.89	0.35	RL	2.97	6.35	0.47	RL	0.34	-0.05	1.33
8	RL	-1.69	2.89	0.59	RL	3.71	6.35	0.58	RL	0.68	-0.40	1.33
9	LL	1.69	2.89	0.59	LL	3.71	6.35	0.58	LL	0.68	-0.40	1.33
10	LL	1.01	2.89	0.35	LL	2.97	6.35	0.47	LL	0.34	-0.05	1.33
11	RL	-0.95	2.89	0.33	MS	-2.03	6.35	0.32	RL	0.20	-0.19	1.33
12	LL	0.93	2.89	0.32	LS	1.94	6.35	0.30	LL	0.20	-0.14	1.33
13	LL	0.94	2.89	0.33	MS	-2.01	6.35	0.32	LL	0.19	-0.18	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.51	0.23	0.23
5	0.51	0.52	0.23	0.23
6	0.52	0.46	0.23	0.21
7	0.46	0.67	0.21	0.30
8	0.67	0.96	0.30	0.44
9	0.96	0.67	0.44	0.30
10	0.67	0.46	0.30	0.21
11	0.46	0.52	0.21	0.23
12	0.52	0.51	0.23	0.23
13	0.51	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION #11 : DL+CL+LL/2+AUX10

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) MidSpan Mom	Moment(f-k) MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.91	3.88
5	1.15	0.93	-0.92	-1.13	3.88	1.93	-1.88	10.05	1.83	3.76
6	1.13	0.92	-0.93	-1.15	3.76	1.83	-1.87	9.94	1.95	3.90
7	1.16	0.95	-0.90	-1.12	3.90	1.92	-2.02	10.19	1.57	3.46
8	1.06	0.85	-1.01	-1.22	3.46	1.68	-1.47	9.30	2.97	5.05
9	1.84	1.48	-1.69	-2.06	5.05	1.94	-3.64	9.44	3.70	7.22
10	2.06	1.69	-1.48	-1.84	7.22	3.70	-3.64	10.55	1.95	5.06
11	1.22	1.01	-0.85	-1.06	5.06	2.97	-1.48	10.71	1.66	3.45
12	1.11	0.90	-0.95	-1.17	3.45	1.56	-2.00	9.77	1.98	3.96
13	1.16	0.95	-0.90	-1.12	3.96	1.98	-1.97	10.20	1.62	3.51
14	1.07	0.86	-1.00	-1.21	3.51	1.71	-1.50	9.38	2.86	4.94
15	1.43	1.21		-1.15	4.94	2.46	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.39	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	RS	1.95	6.35	0.31	RL	0.20	-0.15	1.33
7	LL	0.95	2.89	0.33	MS	-2.02	6.35	0.32	LL	0.20	-0.19	1.33
8	RL	-1.01	2.89	0.35	RL	2.97	6.35	0.47	RL	0.34	-0.05	1.33
9	RL	-1.69	2.89	0.59	RL	3.70	6.35	0.58	RL	0.68	-0.40	1.33
10	LL	1.69	2.89	0.59	LL	3.70	6.35	0.58	LL	0.68	-0.40	1.33
11	LL	1.01	2.89	0.35	LL	2.97	6.35	0.47	LL	0.34	-0.05	1.33
12	RL	-0.95	2.89	0.33	MS	-2.00	6.35	0.32	RL	0.21	-0.18	1.33
13	LL	0.95	2.89	0.33	LL	1.98	6.35	0.31	LL	0.21	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.39	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right

2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.22	0.23
5	0.52	0.50	0.23	0.23
6	0.50	0.52	0.23	0.24
7	0.52	0.46	0.24	0.21
8	0.46	0.67	0.21	0.31
9	0.67	0.96	0.31	0.44
10	0.96	0.67	0.44	0.31
11	0.67	0.46	0.31	0.21
12	0.46	0.53	0.21	0.24
13	0.53	0.49	0.24	0.22
14	0.44	0.72	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION #12 : DL+CL+LL/2+AUX11

PURLIN ANALYSIS:

Span	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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.86	3.79
6	1.14	0.93	-0.93	-1.14	3.79	1.85	-1.92	10.00	1.84	3.78
7	1.13	0.92	-0.93	-1.15	3.78	1.85	-1.87	9.95	1.94	3.89
8	1.16	0.95	-0.91	-1.12	3.89	1.91	-2.03	10.19	1.57	3.47
9	1.06	0.85	-1.01	-1.22	3.47	1.68	-1.47	9.31	2.96	5.05
10	1.84	1.48	-1.69	-2.06	5.05	1.94	-3.64	9.44	3.71	7.23
11	2.06	1.69	-1.47	-1.84	7.23	3.71	-3.65	10.56	1.93	5.03
12	1.22	1.00	-0.85	-1.07	5.03	2.96	-1.44	10.66	1.74	3.54
13	1.14	0.92	-0.93	-1.15	3.54	1.61	-2.12	9.96	1.69	3.63
14	1.08	0.86	-0.99	-1.20	3.63	1.81	-1.45	9.44	2.85	4.90
15	1.43	1.21		-1.15	4.90	2.43	-4.00	12.08		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.30	LL	0.20	-0.15	1.33
6	LL	0.93	2.89	0.32	MS	-1.92	6.35	0.30	LL	0.19	-0.16	1.33
7	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33

8	LL	0.95	2.89	0.33	MS	-2.03	6.35	0.32	LL	0.20	-0.19	1.33
9	RL	-1.01	2.89	0.35	RL	2.96	6.35	0.47	RL	0.34	-0.05	1.33
10	RL	-1.69	2.89	0.59	RL	3.71	6.35	0.58	RL	0.68	-0.40	1.33
11	LL	1.69	2.89	0.59	LL	3.71	6.35	0.58	LL	0.68	-0.40	1.33
12	LL	1.00	2.89	0.35	LL	2.96	6.35	0.47	LL	0.34	-0.05	1.33
13	RL	-0.93	2.89	0.32	MS	-2.12	6.35	0.33	RL	0.17	-0.20	1.33
14	RL	-0.99	4.25	0.23	RL	2.85	7.43	0.38	RL	0.20	-0.06	1.33
15	LL	1.21	7.37	0.16	MS	-4.00	9.14	0.44	LL	0.10	-0.34	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23
5	0.52	0.51	0.23	0.23
6	0.51	0.50	0.23	0.23
7	0.50	0.52	0.23	0.23
8	0.52	0.46	0.23	0.21
9	0.46	0.67	0.21	0.30
10	0.67	0.96	0.30	0.44
11	0.96	0.67	0.44	0.30
12	0.67	0.47	0.30	0.21
13	0.47	0.51	0.21	0.23
14	0.46	0.71	0.21	0.32
15	0.60		0.27	

LOAD COMBINATION #13 : DL+CL+LL/2+AUX12

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span	Left	Left	Right	Right	Left	Left	MidSpan		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.85	3.78
6	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.87	3.81
7	1.14	0.93	-0.92	-1.14	3.81	1.87	-1.91	10.02	1.84	3.78
8	1.13	0.92	-0.93	-1.15	3.78	1.85	-1.87	9.95	1.94	3.89
9	1.16	0.95	-0.91	-1.12	3.89	1.91	-2.03	10.19	1.57	3.46
10	1.06	0.85	-1.01	-1.22	3.46	1.68	-1.47	9.30	2.97	5.06
11	1.84	1.48	-1.69	-2.06	5.06	1.95	-3.65	9.45	3.69	7.20
12	2.05	1.69	-1.48	-1.85	7.20	3.69	-3.61	10.53	2.01	5.13

13	1.24	1.02	-0.83	-1.04	5.13	3.01	-1.59	10.85	1.43	3.18
14	1.05	0.83	-1.02	-1.23	3.18	1.42	-1.64	9.19	2.92	5.03
15	1.43	1.22		-1.14	5.03	2.54	-3.95	12.13		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	RS	1.91	6.35	0.30	RL	0.19	-0.16	1.33
7	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
8	RL	-0.93	2.89	0.32	RS	1.95	6.35	0.31	RL	0.20	-0.15	1.33
9	LL	0.95	2.89	0.33	MS	-2.03	6.35	0.32	LL	0.20	-0.19	1.33
10	RL	-1.01	2.89	0.35	RL	2.97	6.35	0.47	RL	0.34	-0.05	1.33
11	RL	-1.69	2.89	0.59	RL	3.69	6.35	0.58	RL	0.68	-0.40	1.33
12	LL	1.69	2.89	0.58	LL	3.69	6.35	0.58	LL	0.68	-0.39	1.33
13	LL	1.02	2.89	0.35	LL	3.01	6.35	0.47	LL	0.35	-0.07	1.33
14	RL	-1.02	4.25	0.24	RL	2.92	7.43	0.39	RL	0.21	-0.10	1.33
15	LL	1.22	7.37	0.17	MS	-3.95	9.14	0.43	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23
5	0.52	0.50	0.23	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.50	0.23	0.23
8	0.50	0.52	0.23	0.23
9	0.52	0.46	0.23	0.21
10	0.46	0.67	0.21	0.31
11	0.67	0.96	0.31	0.43
12	0.96	0.68	0.43	0.31
13	0.68	0.45	0.31	0.20
14	0.40	0.73	0.18	0.33
15	0.61		0.28	

LOAD COMBINATION #14 : DL+CL+LL/2+AUX13

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	MidSpan Mom	MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.85	3.78
6	1.14	0.93	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.86	3.80
7	1.14	0.93	-0.93	-1.14	3.80	1.87	-1.90	10.00	1.87	3.81
8	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.91	10.01	1.84	3.78
9	1.13	0.92	-0.93	-1.15	3.78	1.85	-1.87	9.95	1.94	3.89
10	1.16	0.95	-0.91	-1.12	3.89	1.91	-2.02	10.18	1.57	3.47
11	1.06	0.85	-1.00	-1.22	3.47	1.68	-1.47	9.31	2.95	5.04
12	1.84	1.47	-1.70	-2.06	5.04	1.94	-3.62	9.43	3.75	7.27
13	2.07	1.70	-1.46	-1.83	7.27	3.73	-3.72	10.62	1.78	4.87
14	1.16	0.94	-0.91	-1.12	4.87	2.90	-0.99	10.13	2.65	4.56
15	1.41	1.20		-1.17	4.56	2.12	-4.13	11.94		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
7	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
8	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
9	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
10	LL	0.95	2.89	0.33	MS	-2.02	6.35	0.32	LL	0.20	-0.19	1.33
11	RL	-1.00	2.89	0.35	RL	2.95	6.35	0.47	RL	0.34	-0.05	1.33
12	RL	-1.70	2.89	0.59	RL	3.75	6.35	0.59	RL	0.69	-0.39	1.33
13	LL	1.70	2.89	0.59	LL	3.73	6.35	0.59	LL	0.69	-0.41	1.33
14	LL	0.94	4.25	0.22	LL	2.90	7.43	0.39	LL	0.20	0.03	1.33
15	LL	1.20	7.37	0.16	MS	-4.13	9.14	0.45	LS	0.08	-0.37	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23

5	0.52	0.50	0.23	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.51	0.23	0.23
8	0.51	0.50	0.23	0.23
9	0.50	0.52	0.23	0.23
10	0.52	0.46	0.23	0.21
11	0.46	0.67	0.21	0.30
12	0.67	0.97	0.30	0.44
13	0.97	0.68	0.44	0.31
14	0.61	0.66	0.28	0.30
15	0.56		0.25	

LOAD COMBINATION #15 : DL+CL+LL/2+AUX14

PURLIN ANALYSIS:

Span	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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.85	3.78
6	1.14	0.93	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.87	3.81
7	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.86	3.80
8	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.87	3.81
9	1.14	0.93	-0.92	-1.14	3.81	1.87	-1.91	10.01	1.84	3.78
10	1.13	0.92	-0.93	-1.15	3.78	1.85	-1.87	9.95	1.95	3.90
11	1.16	0.95	-0.90	-1.12	3.90	1.92	-2.03	10.20	1.55	3.45
12	1.06	0.84	-1.01	-1.22	3.45	1.67	-1.45	9.27	3.03	5.12
13	1.86	1.49	-1.68	-2.04	5.12	1.98	-3.72	9.53	3.48	6.97
14	1.99	1.62	-1.55	-1.91	6.97	3.59	-3.16	10.19	2.97	6.21
15	1.49	1.28		-1.08	6.21	3.61	-3.53	12.60		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
7	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
8	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
9	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
10	RL	-0.93	2.89	0.32	RS	1.95	6.35	0.31	RL	0.20	-0.15	1.33

11	LL	0.95	2.89	0.33	MS	-2.03	6.35	0.32	LL	0.20	-0.19	1.33
12	RL	-1.01	2.89	0.35	RL	3.03	6.35	0.48	RL	0.35	-0.05	1.33
13	RL	-1.68	2.89	0.58	MS	-3.72	6.35	0.59	RL	0.64	-0.42	1.33
14	LL	1.62	4.25	0.38	LS	3.67	7.43	0.49	LL	0.38	-0.28	1.33
15	LL	1.28	7.37	0.17	LL	3.61	9.14	0.40	LL	0.19	-0.23	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23
5	0.52	0.50	0.23	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.51	0.23	0.23
8	0.51	0.51	0.23	0.23
9	0.51	0.50	0.23	0.23
10	0.50	0.52	0.23	0.24
11	0.52	0.46	0.24	0.21
12	0.46	0.68	0.21	0.31
13	0.68	0.98	0.31	0.44
14	0.88	0.90	0.40	0.41
15	0.76		0.34	

LOAD COMBINATION #16 : DL+CL+LL/2+AUX15

PURLIN ANALYSIS:

Span 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
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.85	3.78
6	1.14	0.93	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.87	3.81
7	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.86	3.80
8	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
9	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.87	3.81
10	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.91	10.01	1.85	3.78
11	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.88	9.97	1.92	3.86
12	1.15	0.94	-0.91	-1.13	3.86	1.90	-1.99	10.13	1.66	3.57
13	1.09	0.87	-0.98	-1.19	3.57	1.74	-1.60	9.52	2.62	4.66
14	1.75	1.38	-1.78	-2.15	4.66	1.72	-3.20	8.98	4.96	8.64
15	2.41	2.05		-1.76	8.64	4.46	-6.26	12.17		0.01

16	0.09			0.00	0.01			0.00	0.33			0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
7	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
8	RL	-0.93	2.89	0.32	MS	-1.90	6.35	0.30	RL	0.19	-0.16	1.33
9	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
10	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
11	RL	-0.93	2.89	0.32	RS	1.93	6.35	0.30	RL	0.19	-0.15	1.33
12	LL	0.94	2.89	0.33	MS	-1.99	6.35	0.31	LL	0.20	-0.18	1.33
13	RL	-0.98	2.89	0.34	RL	2.62	6.35	0.41	RL	0.29	-0.08	1.33
14	RL	-1.78	4.25	0.42	RL	4.96	7.43	0.67	RL	0.62	-0.27	1.33
15	LL	2.05	7.37	0.28	MS	-6.26	9.14	0.69	LL	0.32	-0.57	1.31
16	LS	0.09	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.04	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23
5	0.52	0.50	0.23	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.51	0.23	0.23
8	0.51	0.51	0.23	0.23
9	0.51	0.51	0.23	0.23
10	0.51	0.50	0.23	0.23
11	0.50	0.51	0.23	0.23
12	0.51	0.48	0.23	0.22
13	0.48	0.66	0.22	0.30
14	0.59	1.25	0.27	0.57
15	1.05		0.48	

LOAD COMBINATION #17 : DL+CL+LL/2+AUX1

PURLIN ANALYSIS:

	Shear(k)		Moment(f-k)	

Span Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
1	0.00			-0.09	0.00		0.00	0.00		0.01
2	1.85		-1.96	-2.32	0.01		-6.96	7.94	2.84	6.85
3	1.33	1.12	-0.74	-0.95	6.85	4.56	-0.91	11.67	1.46	3.04
4	1.09	0.88	-0.97	-1.19	3.04	1.20	-2.19	9.58	1.98	4.00
5	1.15	0.94	-0.91	-1.13	4.00	2.04	-1.83	10.11	1.83	3.75
6	1.14	0.92	-0.93	-1.14	3.75	1.82	-1.92	9.97	1.87	3.82
7	1.14	0.93	-0.93	-1.14	3.82	1.88	-1.90	10.01	1.86	3.80
8	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
9	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
10	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.87	3.81
11	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.91	10.01	1.85	3.78
12	1.14	0.92	-0.93	-1.14	3.78	1.85	-1.87	9.96	1.93	3.87
13	1.16	0.94	-0.91	-1.12	3.87	1.90	-2.00	10.15	1.63	3.54
14	1.07	0.86	-1.00	-1.21	3.54	1.73	-1.49	9.39	2.86	4.93
15	1.43	1.21		-1.15	4.93	2.45	-3.99	12.09		0.01
16	0.06			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.09	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.04	
2	RL	-1.96	7.37	0.27	MS	-6.96	9.14	0.76	RS	0.20	-0.72	1.31
3	LL	1.12	4.25	0.26	LL	4.56	7.39	0.62	LL	0.45	0.08	1.33
4	RL	-0.97	2.89	0.34	MS	-2.19	6.35	0.34	RL	0.21	-0.22	1.33
5	LL	0.94	2.89	0.33	LL	2.04	6.35	0.32	LL	0.21	-0.14	1.33
6	RL	-0.93	2.89	0.32	MS	-1.92	6.35	0.30	RL	0.19	-0.16	1.33
7	LL	0.93	2.89	0.32	LS	1.91	6.35	0.30	LL	0.19	-0.16	1.33
8	RL	-0.93	2.89	0.32	MS	-1.90	6.35	0.30	RL	0.19	-0.16	1.33
9	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
10	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	MS	-1.91	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.93	2.89	0.32	RS	1.94	6.35	0.31	RL	0.20	-0.15	1.33
13	LL	0.94	2.89	0.33	MS	-2.00	6.35	0.31	LL	0.20	-0.17	1.33
14	RL	-1.00	4.25	0.23	RL	2.86	7.43	0.38	RL	0.20	-0.07	1.33
15	LL	1.21	7.37	0.16	MS	-3.99	9.14	0.44	LL	0.10	-0.33	1.31
16	LS	0.06	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right
2		0.83		0.38
3	0.99	0.38	0.45	0.17
4	0.43	0.53	0.19	0.24
5	0.53	0.50	0.24	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.51	0.23	0.23

8	0.51	0.51	0.23	0.23
9	0.51	0.51	0.23	0.23
10	0.51	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.52	0.23	0.23
13	0.52	0.50	0.23	0.23
14	0.45	0.71	0.20	0.32
15	0.60		0.27	

LOAD COMBINATION #18 : DL+CL+LL/2+AUX2

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
1	0.00			-0.06	0.00		0.00	0.00		0.01
2	1.15		-1.21	-1.43	0.01		-3.99	7.58	2.45	4.93
3	1.21	1.00	-0.86	-1.07	4.93	2.86	-1.49	10.61	1.73	3.54
4	1.12	0.91	-0.94	-1.16	3.54	1.63	-2.00	9.85	1.90	3.87
5	1.14	0.93	-0.92	-1.14	3.87	1.93	-1.87	10.04	1.85	3.78
6	1.14	0.93	-0.93	-1.14	3.78	1.85	-1.91	9.99	1.87	3.81
7	1.14	0.93	-0.93	-1.14	3.81	1.87	-1.90	10.00	1.86	3.80
8	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
9	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	10.00	1.86	3.80
10	1.14	0.93	-0.93	-1.14	3.80	1.86	-1.90	9.99	1.88	3.82
11	1.14	0.93	-0.92	-1.14	3.82	1.87	-1.92	10.03	1.82	3.75
12	1.13	0.91	-0.94	-1.15	3.75	1.83	-1.83	9.89	2.04	4.00
13	1.19	0.97	-0.88	-1.09	4.00	1.98	-2.19	10.42	1.20	3.04
14	0.95	0.74	-1.12	-1.33	3.04	1.46	-0.91	8.33	4.56	6.85
15	2.32	1.96		-1.85	6.85	2.84	-6.96	11.73		0.01
16	0.09			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.06	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.21	7.37	0.16	MS	-3.99	9.14	0.44	RL	0.10	-0.33	1.31
3	LL	1.00	4.25	0.23	LL	2.86	7.43	0.38	LL	0.20	-0.07	1.33
4	RL	-0.94	2.89	0.33	MS	-2.00	6.35	0.31	RL	0.20	-0.17	1.33
5	LL	0.93	2.89	0.32	LS	1.94	6.35	0.31	LL	0.20	-0.15	1.33
6	RL	-0.93	2.89	0.32	MS	-1.91	6.35	0.30	RL	0.19	-0.16	1.33
7	LL	0.93	2.89	0.32	LS	1.90	6.35	0.30	LL	0.19	-0.16	1.33
8	RL	-0.93	2.89	0.32	RS	1.90	6.35	0.30	RL	0.19	-0.16	1.33
9	LL	0.93	2.89	0.32	MS	-1.90	6.35	0.30	LL	0.19	-0.16	1.33
10	RL	-0.93	2.89	0.32	RS	1.91	6.35	0.30	RL	0.19	-0.16	1.33
11	LL	0.93	2.89	0.32	MS	-1.92	6.35	0.30	LL	0.19	-0.16	1.33
12	RL	-0.94	2.89	0.33	RL	2.04	6.35	0.32	RL	0.21	-0.14	1.33
13	LL	0.97	2.89	0.34	MS	-2.19	6.35	0.34	LL	0.21	-0.22	1.33

14	RL	-1.12	4.25	0.26	RL	4.56	7.39	0.62	RL	0.45	0.08	1.33
15	LL	1.96	7.37	0.27	MS	-6.96	9.14	0.76	LS	0.20	-0.72	1.31
16	LS	0.09	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.04	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.60		0.27
3	0.71	0.45	0.32	0.20
4	0.50	0.52	0.23	0.23
5	0.52	0.50	0.23	0.23
6	0.50	0.51	0.23	0.23
7	0.51	0.51	0.23	0.23
8	0.51	0.51	0.23	0.23
9	0.51	0.51	0.23	0.23
10	0.51	0.51	0.23	0.23
11	0.51	0.50	0.23	0.23
12	0.50	0.53	0.23	0.24
13	0.53	0.43	0.24	0.19
14	0.38	0.99	0.17	0.45
15	0.83		0.38	

LOAD COMBINATION #19 : DL+CL+LL-1.0AUX1

PURLIN ANALYSIS:

Span 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
1	0.00			-0.08	0.00		0.00	0.00		0.01
2	1.34		-1.35	-1.57	0.01		-4.07	7.18	3.83	6.57
3	1.95	1.59	-1.58	-1.95	6.57	3.25	-3.20	10.01	3.21	6.52
4	1.95	1.58	-1.58	-1.95	6.52	3.20	-3.24	10.01	3.18	6.49
5	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
6	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
7	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
8	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
9	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
10	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.24	10.00	3.19	6.50
11	1.95	1.58	-1.58	-1.95	6.50	3.19	-3.26	10.01	3.15	6.46
12	1.94	1.57	-1.59	-1.96	6.46	3.16	-3.20	9.96	3.30	6.62
13	1.98	1.61	-1.55	-1.92	6.62	3.25	-3.42	10.15	2.77	6.02
14	1.82	1.46	-1.71	-2.07	6.02	2.95	-2.52	9.37	4.95	8.49
15	2.46	2.10		-2.04	8.49	4.22	-6.98	12.08		0.02
16	0.11			0.00	0.02		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-0.08	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.35	7.37	0.18	MS	-4.07	9.14	0.45	RL	0.21	-0.28	1.31
3	LL	1.59	4.25	0.37	RS	3.44	7.43	0.46	LL	0.33	-0.29	1.33
4	LL	1.58	2.89	0.55	RS	3.24	6.35	0.51	LL	0.56	-0.31	1.33
5	RL	-1.58	2.89	0.55	MS	-3.25	6.35	0.51	RL	0.55	-0.32	1.33
6	LL	1.58	2.89	0.55	LS	3.25	6.35	0.51	LL	0.55	-0.31	1.33
7	RL	-1.58	2.89	0.55	MS	-3.25	6.35	0.51	RL	0.55	-0.31	1.33
8	RL	-1.58	2.89	0.55	RS	3.25	6.35	0.51	RL	0.55	-0.31	1.33
9	LL	1.58	2.89	0.55	MS	-3.25	6.35	0.51	LL	0.55	-0.31	1.33
10	RL	-1.58	2.89	0.55	RS	3.25	6.35	0.51	RL	0.55	-0.31	1.33
11	LL	1.58	2.89	0.55	MS	-3.26	6.35	0.51	LL	0.55	-0.32	1.33
12	RL	-1.59	2.89	0.55	RS	3.31	6.35	0.52	RL	0.57	-0.30	1.33
13	LL	1.61	2.89	0.56	MS	-3.42	6.35	0.54	LL	0.57	-0.35	1.33
14	RL	-1.71	4.25	0.40	RL	4.95	7.43	0.67	RL	0.61	-0.14	1.33
15	LL	2.10	7.37	0.28	MS	-6.98	9.14	0.76	LL	0.29	-0.67	1.31
16	LS	0.11	7.37	0.01	LS	0.02	9.14	0.00	LS	0.00	0.04	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.80		0.36
3	0.95	0.82	0.43	0.37
4	0.92	0.87	0.41	0.39
5	0.87	0.87	0.39	0.39
6	0.87	0.87	0.39	0.39
7	0.87	0.87	0.39	0.39
8	0.87	0.87	0.39	0.39
9	0.87	0.87	0.39	0.39
10	0.87	0.87	0.39	0.39
11	0.87	0.86	0.39	0.39
12	0.86	0.88	0.39	0.40
13	0.88	0.85	0.40	0.38
14	0.76	1.23	0.34	0.56
15	1.03		0.47	

LOAD COMBINATION #20 : DL+CL+LL-1.0AUX2

PURLIN ANALYSIS:

Span 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

1	0.00			-0.11	0.00		0.00	0.00		0.02
2	2.04		-2.10	-2.46	0.02		-6.98	7.59	4.22	8.49
3	2.07	1.71	-1.46	-1.82	8.49	4.95	-2.52	10.63	2.95	6.02
4	1.92	1.55	-1.61	-1.98	6.02	2.77	-3.42	9.85	3.25	6.62
5	1.96	1.59	-1.57	-1.94	6.62	3.30	-3.20	10.04	3.16	6.46
6	1.95	1.58	-1.58	-1.95	6.46	3.15	-3.26	9.99	3.19	6.50
7	1.95	1.58	-1.58	-1.95	6.50	3.19	-3.24	10.00	3.18	6.49
8	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
9	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
10	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
11	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
12	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.25	10.00	3.18	6.49
13	1.95	1.58	-1.58	-1.95	6.49	3.18	-3.24	9.99	3.20	6.52
14	1.95	1.58	-1.59	-1.95	6.52	3.21	-3.20	9.99	3.25	6.57
15	1.57	1.35		-1.34	6.57	3.83	-4.07	12.49		0.01
16	0.08			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.11	7.37	0.01	RS	0.02	9.14	0.00	LS	0.00	0.04	
2	RL	-2.10	7.37	0.28	MS	-6.98	9.14	0.76	RL	0.29	-0.67	1.31
3	LL	1.71	4.25	0.40	LL	4.95	7.43	0.67	LL	0.61	-0.14	1.33
4	RL	-1.61	2.89	0.56	MS	-3.42	6.35	0.54	RL	0.57	-0.35	1.33
5	LL	1.59	2.89	0.55	LS	3.31	6.35	0.52	LL	0.57	-0.30	1.33
6	RL	-1.58	2.89	0.55	MS	-3.26	6.35	0.51	RL	0.55	-0.32	1.33
7	LL	1.58	2.89	0.55	LS	3.25	6.35	0.51	LL	0.55	-0.31	1.33
8	RL	-1.58	2.89	0.55	MS	-3.25	6.35	0.51	RL	0.55	-0.31	1.33
9	LL	1.58	2.89	0.55	LS	3.25	6.35	0.51	LL	0.55	-0.31	1.33
10	LL	1.58	2.89	0.55	MS	-3.25	6.35	0.51	LL	0.55	-0.31	1.33
11	RL	-1.58	2.89	0.55	RS	3.25	6.35	0.51	RL	0.55	-0.31	1.33
12	LL	1.58	2.89	0.55	MS	-3.25	6.35	0.51	LL	0.55	-0.32	1.33
13	RL	-1.58	2.89	0.55	LS	3.24	6.35	0.51	RL	0.56	-0.31	1.33
14	RL	-1.59	4.25	0.37	LS	3.44	7.43	0.46	RL	0.33	-0.29	1.33
15	LL	1.35	7.37	0.18	MS	-4.07	9.14	0.45	LL	0.21	-0.28	1.31
16	LS	0.08	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		1.03		0.47
3	1.23	0.76	0.56	0.34
4	0.85	0.88	0.38	0.40
5	0.88	0.86	0.40	0.39
6	0.86	0.87	0.39	0.39
7	0.87	0.87	0.39	0.39
8	0.87	0.87	0.39	0.39
9	0.87	0.87	0.39	0.39
10	0.87	0.87	0.39	0.39

11	0.87	0.87	0.39	0.39
12	0.87	0.87	0.39	0.39
13	0.87	0.92	0.39	0.41
14	0.82	0.95	0.37	0.43
15	0.80		0.36	

LOAD COMBINATION #21 : DL+CL+1.14AUX3

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) MidSpan Mom	Moment(f-k) MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.04	0.00		0.00	0.00		0.01
2	0.95		-1.28	-1.52	0.01		-3.59	7.57	2.97	5.60
3	1.42	1.18	-0.86	-1.09	5.60	3.16	-2.42	11.30	0.51	2.33
4	0.41	0.35	-0.19	-0.26	2.33	1.62	-0.20	12.33	0.36	0.78
5	0.31	0.25	-0.29	-0.35	0.78	0.26	-0.68	9.38	0.59	1.20
6	0.34	0.28	-0.26	-0.33	1.20	0.62	-0.52	10.17	0.53	1.09
7	0.33	0.27	-0.27	-0.33	1.09	0.52	-0.56	9.96	0.55	1.11
8	0.33	0.27	-0.27	-0.33	1.11	0.55	-0.55	10.01	0.54	1.11
9	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.56	10.00	0.54	1.11
10	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	10.00	0.54	1.11
11	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.56	10.01	0.54	1.10
12	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.55	9.97	0.56	1.12
13	0.34	0.27	-0.27	-0.33	1.12	0.55	-0.58	10.11	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.51	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.92		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.04	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.02	
2	RL	-1.28	7.37	0.17	MS	-3.59	9.14	0.39	RL	0.14	-0.27	1.31
3	LL	1.18	4.25	0.28	LL	3.16	7.43	0.43	LL	0.26	-0.23	1.33
4	LL	0.35	2.89	0.12	LL	1.62	6.16	0.26	LL	0.08	0.11	1.33
5	RL	-0.29	2.89	0.10	MS	-0.68	6.35	0.11	RL	0.02	-0.03	1.33
6	LL	0.28	2.89	0.10	LL	0.62	6.35	0.10	LL	0.02	0.01	1.33
7	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
8	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
9	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
10	RL	-0.27	2.89	0.09	RS	0.55	6.35	0.09	RL	0.02	0.00	1.33
11	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
12	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.58	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.68		0.31
3	0.81	0.29	0.37	0.13
4	0.33	0.10	0.15	0.05
5	0.10	0.16	0.05	0.07
6	0.16	0.14	0.07	0.07
7	0.14	0.15	0.07	0.07
8	0.15	0.15	0.07	0.07
9	0.15	0.15	0.07	0.07
10	0.15	0.15	0.07	0.07
11	0.15	0.15	0.07	0.07
12	0.15	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #22 : DL+CL+1.14AUX4

PURLIN ANALYSIS:

Span 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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.18		-0.41	-0.47	0.00		-0.50	5.51	2.00	2.83
3	1.15	0.91	-1.13	-1.36	2.83	0.90	-2.42	9.15	2.63	4.96
4	1.38	1.14	-0.90	-1.13	4.96	2.61	-2.58	10.96	0.64	2.55
5	0.42	0.36	-0.18	-0.24	2.55	1.81	-0.15	12.74	0.33	0.72
6	0.31	0.25	-0.29	-0.36	0.72	0.20	-0.70	9.26	0.60	1.21
7	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.52	10.20	0.53	1.08
8	0.33	0.27	-0.27	-0.33	1.08	0.52	-0.56	9.95	0.55	1.12
9	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.55	10.01	0.54	1.11
10	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	9.99	0.54	1.11
11	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.56	10.01	0.54	1.10
12	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.55	9.97	0.56	1.12
13	0.34	0.27	-0.27	-0.33	1.12	0.55	-0.58	10.11	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.51	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.92		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)	Moment(f-k)	Mom+Shr	Deflection(in)

Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.01	
2	RL	-0.41	7.37	0.06	RL	2.00	8.84	0.23	RL	0.05	0.12	1.31
3	RL	-1.13	4.25	0.27	RL	2.63	7.43	0.35	RL	0.20	-0.24	1.33
4	LL	1.14	2.89	0.39	LL	2.61	6.35	0.41	LL	0.32	-0.27	1.33
5	LL	0.36	2.89	0.13	LL	1.81	5.99	0.30	LL	0.10	0.12	1.33
6	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
7	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
8	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
9	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
10	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
11	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
12	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.58	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.34		0.16
3	0.41	0.63	0.19	0.28
4	0.70	0.34	0.32	0.15
5	0.34	0.10	0.15	0.04
6	0.10	0.16	0.04	0.07
7	0.16	0.14	0.07	0.07
8	0.14	0.15	0.07	0.07
9	0.15	0.15	0.07	0.07
10	0.15	0.15	0.07	0.07
11	0.15	0.15	0.07	0.07
12	0.15	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #23 : DL+CL+1.14AUX5

PURLIN ANALYSIS:

Span 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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.28		-0.31	-0.37	0.00		-1.17	8.39	0.30	0.94
3	0.25	0.19	-0.35	-0.41	0.94	0.53	-0.01	7.56	1.85	2.57

4	1.13	0.90	-1.14	-1.38	2.57	0.66	-2.55	9.03	2.64	5.00
5	1.38	1.14	-0.90	-1.13	5.00	2.64	-2.57	10.98	0.64	2.54
6	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.15	12.72	0.33	0.73
7	0.31	0.25	-0.29	-0.36	0.73	0.21	-0.70	9.27	0.60	1.21
8	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.52	10.20	0.53	1.08
9	0.33	0.27	-0.27	-0.33	1.08	0.52	-0.56	9.95	0.55	1.12
10	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.55	10.01	0.54	1.11
11	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.56	10.00	0.54	1.10
12	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.55	9.97	0.56	1.12
13	0.34	0.27	-0.27	-0.33	1.12	0.55	-0.58	10.11	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.51	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.92		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.31	7.37	0.04	MS	-1.17	9.14	0.13	RS	0.00	-0.04	1.31
3	RL	-0.35	4.25	0.08	RL	1.85	6.68	0.28	RL	0.07	0.11	1.33
4	RL	-1.14	2.89	0.39	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
5	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.28	1.33
6	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
7	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
8	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
9	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
10	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
11	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
12	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.58	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.11		0.05
3	0.14	0.32	0.06	0.15
4	0.36	0.67	0.16	0.30
5	0.67	0.34	0.30	0.15
6	0.34	0.10	0.15	0.04
7	0.10	0.16	0.04	0.07
8	0.16	0.14	0.07	0.07
9	0.14	0.15	0.07	0.07
10	0.15	0.15	0.07	0.07
11	0.15	0.15	0.07	0.07
12	0.15	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07

14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #24 : DL+CL+1.14AUX6

PURLIN ANALYSIS:

Span	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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.25		-0.34	-0.40	0.00		-0.95	7.58	0.78	1.48
3	0.37	0.31	-0.23	-0.29	1.48	0.83	-0.63	11.25	0.16	0.64
4	0.24	0.17	-0.37	-0.43	0.64	0.26	-0.20	7.12	1.81	2.56
5	1.13	0.90	-1.14	-1.38	2.56	0.65	-2.55	9.03	2.64	5.00
6	1.38	1.14	-0.90	-1.13	5.00	2.64	-2.57	10.98	0.64	2.54
7	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.15	12.72	0.33	0.73
8	0.31	0.25	-0.29	-0.36	0.73	0.21	-0.70	9.27	0.60	1.21
9	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.52	10.20	0.53	1.08
10	0.33	0.27	-0.27	-0.33	1.08	0.52	-0.56	9.95	0.55	1.12
11	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.55	10.02	0.54	1.10
12	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.55	9.97	0.56	1.12
13	0.34	0.27	-0.27	-0.33	1.12	0.55	-0.58	10.11	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.51	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.92		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.34	7.37	0.05	MS	-0.95	9.14	0.10	RL	0.01	0.01	1.31
3	LL	0.31	4.25	0.07	LL	0.83	7.43	0.11	LL	0.02	-0.03	1.33
4	RL	-0.37	2.89	0.13	RL	1.81	6.05	0.30	RL	0.10	0.12	1.33
5	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
6	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.28	1.33
7	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
8	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
9	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
10	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
11	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
12	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.58	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.18		0.08
3	0.21	0.08	0.10	0.04
4	0.09	0.34	0.04	0.15
5	0.34	0.67	0.15	0.30
6	0.67	0.34	0.30	0.15
7	0.34	0.10	0.15	0.04
8	0.10	0.16	0.04	0.07
9	0.16	0.14	0.07	0.07
10	0.14	0.15	0.07	0.07
11	0.15	0.15	0.07	0.07
12	0.15	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #25 : DL+CL+1.14AUX7

PURLIN ANALYSIS:

Span 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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.39	0.00		-1.01	7.80	0.65	1.33
3	0.34	0.28	-0.26	-0.32	1.33	0.75	-0.42	10.26	0.61	1.16
4	0.35	0.29	-0.25	-0.31	1.16	0.56	-0.72	10.63	0.21	0.74
5	0.24	0.18	-0.36	-0.42	0.74	0.34	-0.15	7.31	1.80	2.53
6	1.13	0.90	-1.14	-1.38	2.53	0.63	-2.57	9.01	2.64	5.01
7	1.38	1.14	-0.90	-1.13	5.01	2.64	-2.56	10.99	0.63	2.54
8	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.16	12.72	0.33	0.73
9	0.31	0.25	-0.29	-0.36	0.73	0.21	-0.70	9.27	0.60	1.21
10	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.52	10.19	0.53	1.08
11	0.33	0.27	-0.27	-0.33	1.08	0.52	-0.57	9.96	0.54	1.11
12	0.33	0.27	-0.27	-0.33	1.11	0.55	-0.55	9.98	0.56	1.12
13	0.34	0.27	-0.27	-0.33	1.12	0.55	-0.58	10.11	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.52	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.91		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	

2	RL	-0.33	7.37	0.05	MS	-1.01	9.14	0.11	RS	0.01	0.00	1.31
3	LL	0.28	4.25	0.07	LL	0.75	7.43	0.10	LL	0.01	0.01	1.33
4	LL	0.29	2.89	0.10	MS	-0.72	6.35	0.11	LL	0.02	-0.03	1.33
5	RL	-0.36	2.89	0.12	RL	1.80	5.99	0.30	RL	0.10	0.12	1.33
6	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
7	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
8	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
9	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
10	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
11	RL	-0.27	2.89	0.09	MS	-0.57	6.35	0.09	RL	0.02	0.00	1.33
12	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.58	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.16		0.07
3	0.19	0.15	0.09	0.07
4	0.16	0.10	0.07	0.04
5	0.10	0.34	0.04	0.15
6	0.34	0.67	0.15	0.30
7	0.67	0.34	0.30	0.15
8	0.34	0.10	0.15	0.04
9	0.10	0.16	0.04	0.07
10	0.16	0.14	0.07	0.07
11	0.14	0.15	0.07	0.07
12	0.15	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #26 : DL+CL+1.14AUX8

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span	Left	Left	Right	Right	Left	Left	MidSpan		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-0.99	7.74	0.69	1.37
3	0.35	0.29	-0.25	-0.32	1.37	0.77	-0.47	10.53	0.49	1.02
4	0.32	0.26	-0.28	-0.34	1.02	0.48	-0.54	9.69	0.64	1.23
5	0.36	0.30	-0.24	-0.31	1.23	0.61	-0.70	10.76	0.20	0.72
6	0.24	0.18	-0.36	-0.42	0.72	0.33	-0.16	7.27	1.80	2.54

7	1.13	0.90	-1.14	-1.38	2.54	0.64	-2.56	9.02	2.64	5.01
8	1.38	1.14	-0.90	-1.13	5.01	2.64	-2.56	10.98	0.63	2.54
9	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.16	12.72	0.33	0.73
10	0.31	0.25	-0.29	-0.36	0.73	0.21	-0.70	9.27	0.60	1.21
11	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.52	10.20	0.52	1.08
12	0.33	0.27	-0.27	-0.34	1.08	0.52	-0.56	9.92	0.56	1.13
13	0.34	0.27	-0.27	-0.33	1.13	0.56	-0.57	10.13	0.49	1.05
14	0.32	0.25	-0.29	-0.35	1.05	0.51	-0.46	9.53	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.92		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-0.99	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.28	2.89	0.10	RL	0.64	6.35	0.10	RL	0.02	0.01	1.33
5	LL	0.30	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
6	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
7	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
8	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
9	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
10	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
11	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
12	RL	-0.27	2.89	0.09	RS	0.57	6.35	0.09	RL	0.02	0.00	1.33
13	LL	0.27	2.89	0.09	MS	-0.57	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.14	0.16	0.07	0.07
5	0.16	0.10	0.07	0.04
6	0.10	0.34	0.04	0.15
7	0.34	0.67	0.15	0.30
8	0.67	0.34	0.30	0.15
9	0.34	0.10	0.15	0.04
10	0.10	0.16	0.04	0.07
11	0.16	0.14	0.07	0.07
12	0.14	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #27 : DL+CL+1.14AUX9

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) MidSpan Mom	Moment(f-k) MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.26	-0.32	1.36	0.77	-0.46	10.46	0.52	1.06
4	0.33	0.27	-0.27	-0.33	1.06	0.50	-0.59	9.94	0.53	1.10
5	0.33	0.26	-0.28	-0.34	1.10	0.54	-0.51	9.83	0.63	1.21
6	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.72	0.21	0.73
7	0.24	0.18	-0.36	-0.42	0.73	0.33	-0.15	7.28	1.80	2.54
8	1.13	0.90	-1.14	-1.38	2.54	0.63	-2.56	9.02	2.64	5.01
9	1.38	1.14	-0.90	-1.13	5.01	2.64	-2.56	10.98	0.63	2.54
10	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.15	12.72	0.33	0.73
11	0.31	0.25	-0.29	-0.36	0.73	0.21	-0.70	9.28	0.60	1.21
12	0.34	0.28	-0.26	-0.33	1.21	0.63	-0.51	10.17	0.54	1.10
13	0.33	0.27	-0.27	-0.33	1.10	0.53	-0.59	10.06	0.50	1.06
14	0.32	0.26	-0.29	-0.35	1.06	0.52	-0.46	9.54	0.77	1.36
15	0.40	0.33		-0.26	1.36	0.68	-1.00	11.91		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.59	6.35	0.09	RL	0.02	0.00	1.33
5	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
6	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
7	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
8	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
9	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
10	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
11	RL	-0.29	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
12	LL	0.28	2.89	0.10	LL	0.63	6.35	0.10	LL	0.02	0.01	1.33
13	LL	0.27	2.89	0.09	MS	-0.59	6.35	0.09	LL	0.02	0.00	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-1.00	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.16	0.07	0.07
6	0.16	0.10	0.07	0.04
7	0.10	0.34	0.04	0.15
8	0.34	0.67	0.15	0.30
9	0.67	0.34	0.30	0.15
10	0.34	0.10	0.15	0.04
11	0.10	0.16	0.04	0.07
12	0.16	0.15	0.07	0.07
13	0.15	0.15	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #28 : DL+CL+1.14AUX10

PURLIN ANALYSIS:

Span 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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.51	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.57	9.87	0.56	1.13
5	0.34	0.27	-0.27	-0.33	1.13	0.56	-0.56	10.08	0.52	1.08
6	0.33	0.26	-0.28	-0.34	1.08	0.52	-0.52	9.80	0.63	1.21
7	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.73	0.21	0.73
8	0.24	0.18	-0.36	-0.42	0.73	0.33	-0.16	7.28	1.80	2.54
9	1.13	0.90	-1.14	-1.38	2.54	0.63	-2.56	9.02	2.64	5.01
10	1.38	1.14	-0.90	-1.13	5.01	2.64	-2.56	10.98	0.64	2.54
11	0.42	0.36	-0.18	-0.24	2.54	1.80	-0.16	12.73	0.33	0.72
12	0.31	0.24	-0.30	-0.36	0.72	0.20	-0.70	9.24	0.61	1.23
13	0.34	0.28	-0.26	-0.32	1.23	0.64	-0.54	10.31	0.48	1.02
14	0.32	0.25	-0.29	-0.35	1.02	0.49	-0.47	9.47	0.77	1.37
15	0.40	0.33		-0.26	1.37	0.69	-0.99	11.93		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.57	6.35	0.09	RL	0.02	0.00	1.33

5	LL	0.27	2.89	0.09	LS	0.57	6.35	0.09	LL	0.02	0.00	1.33
6	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
7	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
8	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
9	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
10	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
11	LL	0.36	2.89	0.12	LL	1.80	6.00	0.30	LL	0.10	0.12	1.33
12	RL	-0.30	2.89	0.10	MS	-0.70	6.35	0.11	RL	0.02	-0.03	1.33
13	LL	0.28	2.89	0.10	LL	0.64	6.35	0.10	LL	0.02	0.01	1.33
14	RL	-0.29	4.25	0.07	RL	0.77	7.43	0.10	RL	0.02	0.00	1.33
15	LL	0.33	7.37	0.05	MS	-0.99	9.14	0.11	LL	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.14	0.07	0.07
6	0.14	0.16	0.07	0.07
7	0.16	0.10	0.07	0.04
8	0.10	0.34	0.04	0.15
9	0.34	0.67	0.15	0.30
10	0.67	0.34	0.30	0.15
11	0.34	0.10	0.15	0.04
12	0.10	0.16	0.04	0.07
13	0.16	0.14	0.07	0.07
14	0.13	0.20	0.06	0.09
15	0.17		0.08	

LOAD COMBINATION #29 : DL+CL+1.14AUX11

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span	Left	Left	Right	Right	Left	Left	MidSpan		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.52	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.58	9.89	0.55	1.12
5	0.33	0.27	-0.27	-0.33	1.12	0.56	-0.55	10.02	0.55	1.11
6	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.57	10.04	0.52	1.08
7	0.33	0.26	-0.28	-0.34	1.08	0.53	-0.52	9.81	0.63	1.21
8	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.73	0.21	0.73
9	0.24	0.18	-0.36	-0.42	0.73	0.33	-0.16	7.28	1.80	2.54

10	1.13	0.90	-1.14	-1.38	2.54	0.63	-2.56	9.01	2.64	5.01
11	1.38	1.14	-0.90	-1.13	5.01	2.64	-2.57	10.99	0.63	2.53
12	0.42	0.36	-0.18	-0.24	2.53	1.80	-0.15	12.69	0.34	0.74
13	0.31	0.25	-0.29	-0.35	0.74	0.21	-0.72	9.37	0.56	1.16
14	0.32	0.26	-0.28	-0.34	1.16	0.61	-0.42	9.74	0.75	1.33
15	0.39	0.33		-0.26	1.33	0.65	-1.01	11.87		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.58	6.35	0.09	RL	0.02	0.00	1.33
5	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
6	LL	0.27	2.89	0.09	MS	-0.57	6.35	0.09	LL	0.02	0.00	1.33
7	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
8	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
9	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
10	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.27	1.33
11	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
12	LL	0.36	2.89	0.12	LL	1.80	5.99	0.30	LL	0.10	0.12	1.33
13	RL	-0.29	2.89	0.10	MS	-0.72	6.35	0.11	RL	0.02	-0.03	1.33
14	RL	-0.28	4.25	0.07	RL	0.75	7.43	0.10	RL	0.01	0.01	1.33
15	LL	0.33	7.37	0.05	MS	-1.01	9.14	0.11	LS	0.01	0.00	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.15	0.07	0.07
6	0.15	0.14	0.07	0.07
7	0.14	0.16	0.07	0.07
8	0.16	0.10	0.07	0.04
9	0.10	0.34	0.04	0.15
10	0.34	0.67	0.15	0.30
11	0.67	0.34	0.30	0.15
12	0.34	0.10	0.15	0.04
13	0.10	0.16	0.04	0.07
14	0.15	0.19	0.07	0.09
15	0.16		0.07	

LOAD COMBINATION #30 : DL+CL+1.14AUX12

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	MidSpan Mom	MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.51	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.58	9.89	0.55	1.12
5	0.33	0.27	-0.27	-0.33	1.12	0.56	-0.55	10.03	0.54	1.10
6	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.55	9.98	0.55	1.12
7	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.56	10.05	0.52	1.08
8	0.33	0.26	-0.28	-0.34	1.08	0.53	-0.52	9.80	0.63	1.21
9	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.73	0.21	0.73
10	0.24	0.18	-0.36	-0.42	0.73	0.33	-0.15	7.28	1.80	2.54
11	1.13	0.90	-1.14	-1.38	2.54	0.64	-2.57	9.02	2.64	5.00
12	1.38	1.14	-0.90	-1.13	5.00	2.64	-2.55	10.97	0.65	2.56
13	0.43	0.37	-0.17	-0.24	2.56	1.81	-0.20	12.88	0.26	0.64
14	0.29	0.23	-0.31	-0.37	0.64	0.16	-0.63	8.75	0.83	1.48
15	0.40	0.34		-0.25	1.48	0.78	-0.95	12.09		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.58	6.35	0.09	RL	0.02	0.00	1.33
5	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
6	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
7	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
8	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
9	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
10	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
11	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.28	1.33
12	LL	1.14	2.89	0.40	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
13	LL	0.37	2.89	0.13	LL	1.81	6.05	0.30	LL	0.10	0.12	1.33
14	RL	-0.31	4.25	0.07	RL	0.83	7.43	0.11	RL	0.02	-0.03	1.33
15	LL	0.34	7.37	0.05	MS	-0.95	9.14	0.10	LL	0.01	0.01	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right

2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.15	0.07	0.07
6	0.15	0.15	0.07	0.07
7	0.15	0.14	0.07	0.07
8	0.14	0.16	0.07	0.07
9	0.16	0.10	0.07	0.04
10	0.10	0.34	0.04	0.15
11	0.34	0.67	0.15	0.30
12	0.67	0.34	0.30	0.15
13	0.34	0.09	0.15	0.04
14	0.08	0.21	0.04	0.10
15	0.18		0.08	

LOAD COMBINATION #31 : DL+CL+1.14AUX13

PURLIN ANALYSIS:

Span	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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.51	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.58	9.89	0.55	1.12
5	0.33	0.27	-0.27	-0.33	1.12	0.56	-0.55	10.03	0.54	1.10
6	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.56	10.00	0.54	1.11
7	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	9.99	0.55	1.12
8	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.56	10.05	0.52	1.08
9	0.33	0.26	-0.28	-0.34	1.08	0.53	-0.52	9.80	0.63	1.21
10	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.73	0.21	0.73
11	0.24	0.18	-0.36	-0.42	0.73	0.33	-0.15	7.28	1.80	2.54
12	1.13	0.90	-1.14	-1.38	2.54	0.64	-2.57	9.02	2.64	5.00
13	1.38	1.14	-0.90	-1.13	5.00	2.64	-2.55	10.97	0.66	2.57
14	0.41	0.35	-0.19	-0.25	2.57	1.85	-0.01	12.44	0.53	0.94
15	0.37	0.31		-0.28	0.94	0.30	-1.17	11.27		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.58	6.35	0.09	RL	0.02	0.00	1.33
5	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
6	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
7	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33

8	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
9	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
10	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
11	RL	-0.36	2.89	0.12	RL	1.80	6.00	0.30	RL	0.10	0.12	1.33
12	RL	-1.14	2.89	0.40	RL	2.64	6.35	0.42	RL	0.33	-0.28	1.33
13	LL	1.14	2.89	0.39	LL	2.64	6.35	0.42	LL	0.33	-0.27	1.33
14	LL	0.35	4.25	0.08	LL	1.85	6.68	0.28	LL	0.07	0.11	1.33
15	LL	0.31	7.37	0.04	MS	-1.17	9.14	0.13	LS	0.00	-0.04	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	0.00	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.15	0.07	0.07
6	0.15	0.15	0.07	0.07
7	0.15	0.15	0.07	0.07
8	0.15	0.14	0.07	0.07
9	0.14	0.16	0.07	0.07
10	0.16	0.10	0.07	0.04
11	0.10	0.34	0.04	0.15
12	0.34	0.67	0.15	0.30
13	0.67	0.36	0.30	0.16
14	0.32	0.14	0.15	0.06
15	0.11		0.05	

LOAD COMBINATION #32 : DL+CL+1.14AUX14

PURLIN ANALYSIS:

Span 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
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.51	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.58	9.89	0.55	1.12
5	0.33	0.27	-0.27	-0.33	1.12	0.56	-0.55	10.03	0.54	1.10
6	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.56	9.99	0.54	1.11
7	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	10.01	0.54	1.11
8	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	9.99	0.55	1.12
9	0.33	0.27	-0.27	-0.33	1.12	0.55	-0.56	10.05	0.52	1.08
10	0.33	0.26	-0.28	-0.34	1.08	0.53	-0.52	9.80	0.63	1.21
11	0.36	0.29	-0.25	-0.31	1.21	0.60	-0.70	10.74	0.20	0.72
12	0.24	0.18	-0.36	-0.42	0.72	0.33	-0.15	7.26	1.81	2.55

13	1.13	0.90	-1.14	-1.38	2.55	0.64	-2.58	9.04	2.61	4.96
14	1.36	1.13	-0.91	-1.15	4.96	2.63	-2.42	10.85	0.90	2.83
15	0.47	0.41		-0.18	2.83	2.00	-0.50	14.15		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.58	6.35	0.09	RL	0.02	0.00	1.33
5	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
6	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
7	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
8	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
9	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
10	RL	-0.28	2.89	0.10	RL	0.63	6.35	0.10	RL	0.02	0.01	1.33
11	LL	0.29	2.89	0.10	MS	-0.70	6.35	0.11	LL	0.02	-0.03	1.33
12	RL	-0.36	2.89	0.13	RL	1.81	5.99	0.30	RL	0.10	0.12	1.33
13	RL	-1.14	2.89	0.39	RL	2.61	6.35	0.41	RL	0.32	-0.27	1.33
14	LL	1.13	4.25	0.27	LL	2.63	7.43	0.35	LL	0.20	-0.24	1.33
15	LL	0.41	7.37	0.06	LL	2.00	8.84	0.23	LL	0.05	0.12	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.01	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07
5	0.15	0.15	0.07	0.07
6	0.15	0.15	0.07	0.07
7	0.15	0.15	0.07	0.07
8	0.15	0.15	0.07	0.07
9	0.15	0.14	0.07	0.07
10	0.14	0.16	0.07	0.07
11	0.16	0.10	0.07	0.04
12	0.10	0.34	0.04	0.15
13	0.34	0.70	0.15	0.32
14	0.63	0.41	0.28	0.19
15	0.34		0.16	

LOAD COMBINATION #33 : DL+CL+1.14AUX15

PURLIN ANALYSIS:

Span Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) MidSpan Mom	Moment(f-k) MidSpan Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.26		-0.33	-0.40	0.00		-1.00	7.75	0.68	1.36
3	0.35	0.29	-0.25	-0.32	1.36	0.77	-0.46	10.47	0.51	1.05
4	0.33	0.27	-0.27	-0.34	1.05	0.49	-0.58	9.89	0.55	1.12
5	0.33	0.27	-0.27	-0.33	1.12	0.56	-0.55	10.03	0.54	1.10
6	0.33	0.27	-0.27	-0.33	1.10	0.54	-0.56	9.99	0.54	1.11
7	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	10.00	0.54	1.11
8	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.56	10.00	0.54	1.11
9	0.33	0.27	-0.27	-0.33	1.11	0.54	-0.55	9.99	0.55	1.11
10	0.33	0.27	-0.27	-0.33	1.11	0.55	-0.56	10.04	0.52	1.09
11	0.33	0.26	-0.28	-0.34	1.09	0.53	-0.52	9.83	0.62	1.20
12	0.35	0.29	-0.25	-0.31	1.20	0.59	-0.68	10.62	0.26	0.78
13	0.26	0.19	-0.35	-0.41	0.78	0.36	-0.20	7.67	1.62	2.33
14	1.09	0.86	-1.18	-1.42	2.33	0.51	-2.42	8.70	3.16	5.60
15	1.52	1.28		-0.95	5.60	2.97	-3.59	12.10		0.01
16	0.04			0.00	0.01		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	0.00	
2	RL	-0.33	7.37	0.05	MS	-1.00	9.14	0.11	RL	0.01	0.00	1.31
3	LL	0.29	4.25	0.07	LL	0.77	7.43	0.10	LL	0.02	0.00	1.33
4	RL	-0.27	2.89	0.09	MS	-0.58	6.35	0.09	RL	0.02	0.00	1.33
5	LL	0.27	2.89	0.09	LS	0.56	6.35	0.09	LL	0.02	0.00	1.33
6	RL	-0.27	2.89	0.09	MS	-0.56	6.35	0.09	RL	0.02	0.00	1.33
7	LL	0.27	2.89	0.09	LS	0.55	6.35	0.09	LL	0.02	0.00	1.33
8	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
9	RL	-0.27	2.89	0.09	RS	0.56	6.35	0.09	RL	0.02	0.00	1.33
10	LL	0.27	2.89	0.09	MS	-0.56	6.35	0.09	LL	0.02	0.00	1.33
11	RL	-0.28	2.89	0.10	RL	0.62	6.35	0.10	RL	0.02	0.01	1.33
12	LL	0.29	2.89	0.10	MS	-0.68	6.35	0.11	LL	0.02	-0.03	1.33
13	RL	-0.35	2.89	0.12	RL	1.62	6.16	0.26	RL	0.08	0.11	1.33
14	RL	-1.18	4.25	0.28	RL	3.16	7.43	0.43	RL	0.26	-0.23	1.33
15	LL	1.28	7.37	0.17	MS	-3.59	9.14	0.39	LL	0.14	-0.27	1.31
16	LS	0.04	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.02	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Lap_Shear(k) Right	Shear_Ratio Left	Shear_Ratio Right
2		0.17		0.08
3	0.20	0.13	0.09	0.06
4	0.15	0.15	0.07	0.07

5	0.15	0.15	0.07	0.07
6	0.15	0.15	0.07	0.07
7	0.15	0.15	0.07	0.07
8	0.15	0.15	0.07	0.07
9	0.15	0.15	0.07	0.07
10	0.15	0.14	0.07	0.07
11	0.14	0.16	0.07	0.07
12	0.16	0.10	0.07	0.05
13	0.10	0.33	0.05	0.15
14	0.29	0.81	0.13	0.37
15	0.68		0.31	

LOAD COMBINATION #34 : DL+CL+1.14AUX16

PURLIN ANALYSIS:

Span	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
1	0.00			-0.04	0.00		0.00	0.00		0.01
2	1.08		-1.15	-1.38	0.01		-4.68	8.64	0.57	2.94
3	0.34	0.28	-0.26	-0.32	2.94	2.36	1.17	10.33	2.18	2.72
4	1.26	1.02	-1.01	-1.25	2.72	0.58	-3.60	10.04	0.50	2.63
5	0.33	0.27	-0.27	-0.33	2.63	2.06	0.98	9.96	2.08	2.65
6	1.26	1.02	-1.02	-1.25	2.65	0.52	-3.63	10.00	0.51	2.64
7	0.33	0.27	-0.27	-0.33	2.64	2.08	0.98	10.00	2.08	2.65
8	1.25	1.02	-1.02	-1.25	2.65	0.51	-3.63	10.00	0.51	2.65
9	0.33	0.27	-0.27	-0.33	2.65	2.08	0.98	10.00	2.08	2.64
10	1.25	1.02	-1.02	-1.26	2.64	0.51	-3.63	10.00	0.52	2.65
11	0.33	0.27	-0.27	-0.33	2.65	2.08	0.97	10.05	2.06	2.62
12	1.25	1.01	-1.03	-1.26	2.62	0.50	-3.59	9.95	0.60	2.74
13	0.35	0.29	-0.25	-0.31	2.74	2.13	0.85	10.67	1.77	2.29
14	1.19	0.96	-1.08	-1.32	2.29	0.28	-3.36	9.49	1.31	3.57
15	0.51	0.45		-0.15	3.57	2.67	-0.32	15.28		0.00
16	0.01			0.00	0.00		0.00	0.33		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.04	7.37	0.01	RS	0.01	9.14	0.00	LS	0.00	0.03	
2	RL	-1.15	7.37	0.16	MS	-4.68	9.14	0.51	RS	0.04	-0.50	1.31
3	LL	0.28	4.25	0.07	LL	2.36	6.68	0.35	LL	0.10	0.34	1.33
4	LL	1.02	2.89	0.35	MS	-3.60	6.35	0.57	LL	0.13	-0.53	1.33
5	RL	-0.27	2.89	0.09	RL	2.08	5.92	0.35	RL	0.12	0.35	1.33
6	LL	1.02	2.89	0.35	MS	-3.63	6.35	0.57	LL	0.13	-0.54	1.33
7	RL	-0.27	2.89	0.09	RL	2.08	5.92	0.35	RL	0.12	0.36	1.33
8	RL	-1.02	2.89	0.35	MS	-3.63	6.35	0.57	RL	0.13	-0.54	1.33
9	LL	0.27	2.89	0.09	LL	2.08	5.92	0.35	LL	0.12	0.36	1.33
10	RL	-1.02	2.89	0.35	MS	-3.63	6.35	0.57	RL	0.13	-0.54	1.33

11	LL	0.27	2.89	0.09	LL	2.08	5.92	0.35	LL	0.12	0.36	1.33
12	RL	-1.03	2.89	0.35	MS	-3.59	6.35	0.57	RL	0.13	-0.53	1.33
13	LL	0.29	2.89	0.10	LL	2.13	5.92	0.36	LL	0.12	0.33	1.33
14	RL	-1.08	4.25	0.25	MS	-3.36	7.43	0.45	RL	0.10	-0.44	1.33
15	LL	0.45	7.37	0.06	LL	2.67	8.46	0.32	LL	0.09	0.19	1.31
16	LS	0.01	7.37	0.00	LS	0.00	9.14	0.00	LS	0.00	-0.01	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span Id	Lap_Shear(k) Left	Right	Shear_Ratio Left	Right
2		0.36		0.16
3	0.43	0.34	0.19	0.16
4	0.38	0.35	0.17	0.16
5	0.35	0.35	0.16	0.16
6	0.35	0.35	0.16	0.16
7	0.35	0.35	0.16	0.16
8	0.35	0.35	0.16	0.16
9	0.35	0.35	0.16	0.16
10	0.35	0.35	0.16	0.16
11	0.35	0.35	0.16	0.16
12	0.35	0.37	0.16	0.17
13	0.37	0.32	0.17	0.15
14	0.29	0.52	0.13	0.23
15	0.43		0.20	

LOAD COMBINATION #35 : DL+CL+1.14AUX17

PURLIN ANALYSIS:

	Shear(k)				Moment(f-k)					
Span Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	MidSpan Mom	MidSpan Loc	Right Lap	Right Sup
1	0.00			-0.01	0.00		0.00	0.00		0.00
2	0.15		-0.45	-0.51	0.00		-0.32	4.38	2.67	3.57
3	1.32	1.08	-0.96	-1.19	3.57	1.31	-3.36	10.51	0.28	2.29
4	0.31	0.25	-0.29	-0.35	2.29	1.77	0.85	9.33	2.13	2.74
5	1.26	1.03	-1.01	-1.25	2.74	0.60	-3.59	10.05	0.50	2.62
6	0.33	0.27	-0.27	-0.33	2.62	2.06	0.97	9.95	2.08	2.65
7	1.26	1.02	-1.02	-1.25	2.65	0.52	-3.63	10.00	0.51	2.64
8	0.33	0.27	-0.27	-0.33	2.64	2.08	0.98	10.00	2.08	2.65
9	1.25	1.02	-1.02	-1.25	2.65	0.51	-3.63	10.00	0.51	2.65
10	0.33	0.27	-0.27	-0.33	2.65	2.08	0.98	10.00	2.08	2.64
11	1.25	1.02	-1.02	-1.26	2.64	0.51	-3.63	10.00	0.52	2.65
12	0.33	0.27	-0.27	-0.33	2.65	2.08	0.98	10.04	2.06	2.63
13	1.25	1.01	-1.02	-1.26	2.63	0.50	-3.60	9.96	0.58	2.72
14	0.32	0.26	-0.28	-0.34	2.72	2.18	1.17	9.67	2.36	2.94
15	1.38	1.15		-1.08	2.94	0.57	-4.68	11.02		0.01

16	0.04	0.00	0.01	0.00	0.33	0.00	

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RS	-0.01	7.37	0.00	RS	0.00	9.14	0.00	LS	0.00	-0.01	
2	RL	-0.45	7.37	0.06	RL	2.67	8.46	0.32	RL	0.09	0.19	1.31
3	LL	1.08	4.25	0.25	MS	-3.36	7.43	0.45	LL	0.10	-0.44	1.33
4	RL	-0.29	2.89	0.10	RL	2.13	5.92	0.36	RL	0.12	0.33	1.33
5	LL	1.03	2.89	0.35	MS	-3.59	6.35	0.57	LL	0.13	-0.53	1.33
6	RL	-0.27	2.89	0.09	RL	2.08	5.92	0.35	RL	0.12	0.36	1.33
7	LL	1.02	2.89	0.35	MS	-3.63	6.35	0.57	LL	0.13	-0.54	1.33
8	RL	-0.27	2.89	0.09	RL	2.08	5.92	0.35	RL	0.12	0.36	1.33
9	LL	1.02	2.89	0.35	MS	-3.63	6.35	0.57	LL	0.13	-0.54	1.33
10	LL	0.27	2.89	0.09	LL	2.08	5.92	0.35	LL	0.12	0.36	1.33
11	RL	-1.02	2.89	0.35	MS	-3.63	6.35	0.57	RL	0.13	-0.54	1.33
12	LL	0.27	2.89	0.09	LL	2.08	5.92	0.35	LL	0.12	0.35	1.33
13	RL	-1.02	2.89	0.35	MS	-3.60	6.35	0.57	RL	0.13	-0.53	1.33
14	RL	-0.28	4.25	0.07	RL	2.36	6.68	0.35	RL	0.10	0.34	1.33
15	LL	1.15	7.37	0.16	MS	-4.68	9.14	0.51	LS	0.04	-0.50	1.31
16	LS	0.04	7.37	0.01	LS	0.01	9.14	0.00	LS	0.00	0.03	

LAP BOLT SHEAR/BEARING:

Bolt = 0.500 (A307)

Span	Lap_Shear(k)		Shear_Ratio	
Id	Left	Right	Left	Right
2		0.43		0.20
3	0.52	0.29	0.23	0.13
4	0.32	0.37	0.15	0.17
5	0.37	0.35	0.17	0.16
6	0.35	0.35	0.16	0.16
7	0.35	0.35	0.16	0.16
8	0.35	0.35	0.16	0.16
9	0.35	0.35	0.16	0.16
10	0.35	0.35	0.16	0.16
11	0.35	0.35	0.16	0.16
12	0.35	0.35	0.16	0.16
13	0.35	0.38	0.16	0.17
14	0.34	0.43	0.16	0.19
15	0.36		0.16	

SURFACE 2

Frame Id	Line Type	Id	----Design_Load---- Reaction (k)	Moment (f-k)	-----Required_For_UC=1.03----- Width (in)	WebCrp (k)	WebCrp UC	WebCrp+Mom UC
1	RF	1	2.15	0.02	5.46	2.09	1.03	0.00
2	RF	4	4.55	8.63	2.26	5.52	0.93	0.00
3	RF	5	4.02	6.96	3.36	4.25	1.02	0.00
4	RF	6	4.12	7.26	4.46	4.05	1.02	0.00
5	RF	7	4.10	7.19	4.36	4.00	1.02	0.00
6	RF	8	4.11	7.21	4.36	4.00	1.03	0.00
7	RF	9	4.11	7.21	4.36	4.00	1.03	0.00
8	RF	10	4.11	7.21	4.36	4.00	1.03	0.00
9	RF	11	4.11	7.21	4.36	4.00	1.03	0.00
10	RF	12	4.11	7.21	4.36	4.00	1.03	0.00
11	RF	13	4.10	7.19	4.36	4.00	1.02	0.00
12	RF	14	4.12	7.26	4.46	4.05	1.02	0.00
13	RF	15	4.02	6.96	3.36	4.25	1.02	0.00
14	RF	16	4.55	8.63	2.26	5.52	0.93	0.00
15	EW	1	2.15	0.02	5.46	2.09	1.03	0.00

Win (k)= Design load in the plane of the purlin web
Wout(k)= Design load in the plate of the purlin flange
Pl (k)= Force in plane of roof per anti-roll clip

PURLIN ROLL FORCES:

Surf Id	Load Id	Line Id	--Roof_Load-- Win	Wout	Pl
2	1	1	32.60	1.36	0.22
2	1	2	68.67	2.86	0.79
2	1	3	56.71	2.36	1.10
2	1	4	59.61	2.48	1.35
2	1	5	58.88	2.45	1.34
2	1	6	59.08	2.46	1.34
2	1	7	59.03	2.46	1.34
2	1	8	59.04	2.46	1.34
2	1	9	59.03	2.46	1.34
2	1	10	59.08	2.46	1.34
2	1	11	58.88	2.45	1.34
2	1	12	59.61	2.48	1.35
2	1	13	56.71	2.36	1.10
2	1	14	68.67	2.86	0.79
2	1	15	32.60	1.36	0.22
2	2	1	32.60	1.11	0.44
2	2	2	67.08	2.28	1.22
2	2	3	54.95	1.87	1.43
2	2	4	57.89	1.97	1.70
2	2	5	57.15	1.94	1.68
2	2	6	57.35	1.95	1.68
2	2	7	57.30	1.95	1.68
2	2	8	57.31	1.95	1.68
2	2	9	57.30	1.95	1.68

2	2	10	57.35	1.95	1.68
2	2	11	57.15	1.94	1.68
2	2	12	57.89	1.97	1.70
2	2	13	54.95	1.87	1.43
2	2	14	67.08	2.28	1.22
2	2	15	32.60	1.11	0.44
2	3	1	-7.70	0.04	-0.36
2	3	2	-19.11	0.09	-0.99
2	3	3	-16.23	0.07	-0.97
2	3	4	-16.93	0.08	-1.07
2	3	5	-16.75	0.08	-1.05
2	3	6	-16.80	0.08	-1.06
2	3	7	-16.79	0.08	-1.06
2	3	8	-16.79	0.08	-1.06
2	3	9	-16.79	0.08	-1.06
2	3	10	-16.80	0.08	-1.06
2	3	11	-16.75	0.08	-1.05
2	3	12	-16.93	0.08	-1.07
2	3	13	-16.23	0.07	-0.97
2	3	14	-19.11	0.09	-0.99
2	3	15	-7.70	0.04	-0.36

CHECK ON PURLIN CLIP:

		Standard_Purlin_Connection					Required_Anti_Roll_Connection					
Surf Id	Line Id	Row	Type	Thick	Force/Purlin Calc	Allow	UC	No.	Type	Thick	Force/Connection Calc	Allow	UC
2	RF	15	Bolt		0.75			1	Clip	0.057	1.70	7.50	0.23
2	R_EW	15	Bolt		0.29			1	Clip	0.057	0.44	7.50	0.06

Type	Description
Clip	Bolted clip
Weld	Welded clip
Gusset	Welded clip with gusset
Bolt	Direct bolt/short welded clip
Strap	Bolted strap

PANEL SHEAR/PURLIN ANTI ROLL LOCATION:

Surf Id	Line Id	Panel_Shear Calc	Allow	DS_AROLL Id	No. Purlin	Purlin Location
2	RF	12.2	75.0	@002	1	15
2	R_EW	6.4	75.0	@002	1	15

PANEL DATA:

Part	Type	Gage	Yield

26 HR HR 26.00 80.00

MOMENTS & DEFLECTIONS:

Surf Id	Purlin Space	Load Id	Moment(ft-lb/ft) Support Calc	Support Allow	Support Ratio	Midspan Calc	Midspan Allow	Midspan Ratio	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) Ratio
2	4.615	D+C+L	96.0	139.0	0.69	-69.1	119.0	0.58	-0.18	0.308	0.58
		D+C+WP	39.2	139.0	0.28	-28.2	119.0	0.24	-0.07	0.461	0.14
		D+WS	-28.3	119.0	0.24	20.3	139.0	0.15	0.07	0.461	0.14

PANEL SHEAR:
Allow = 0.0
Calc
Wind = 11.4
Seismic = 63.0

DIAGONAL BRACING:

Bay Id	Brace_Loc. Start	Brace_Loc. End	Diag_Brace Type	Diag_Brace Size	Diag_Brace Part	Brace_Tension(k) Wind Calc	Wind Allow	Seismic Calc	Seismic Allow	Max UC
3	0.00	18.44	C	0.500	CB0500	1.45	13.45	8.01	13.45	0.60
	18.44	36.88	C	0.313	CB0313	0.38	5.60	2.28	5.60	0.41
	36.88	50.72	C	0.313	CB0313	0.40	5.60	2.44	5.60	0.44
	50.72	70.00	C	0.500	CB0500	1.46	13.45	8.04	13.45	0.60
8	0.00	18.44	C	0.500	CB0500	1.45	13.45	8.01	13.45	0.60
	18.44	36.88	C	0.313	CB0313	0.38	5.60	2.28	5.60	0.41
	36.88	50.72	C	0.313	CB0313	0.40	5.60	2.44	5.60	0.44
	50.72	70.00	C	0.500	CB0500	1.46	13.45	8.04	13.45	0.60
12	0.00	18.44	C	0.500	CB0500	1.45	13.45	8.01	13.45	0.60
	18.44	36.88	C	0.313	CB0313	0.38	5.60	2.28	5.60	0.41
	36.88	50.72	C	0.313	CB0313	0.40	5.60	2.44	5.60	0.44
	50.72	70.00	C	0.500	CB0500	1.46	13.45	8.04	13.45	0.60

PANEL SHEAR:

Wall Id	Base Length	Wind Calc	Seismic Calc	Allow
2	0.0	750.0	750.0	75.0
4	0.0	750.0	750.0	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	Wind Allow	Seismic Calc	Seismic Allow	Max UC
2	3	0.0	26.9	R	0.875	RB0875	2.40	11.48	18.12	19.51	0.93
2	8	0.0	26.9	R	0.875	RB0875	2.40	11.48	18.12	19.51	0.93
2	12	0.0	26.9	R	0.875	RB0875	2.40	11.48	18.12	19.51	0.93
4	3	0.0	24.0	R	0.875	RB0875	2.13	11.48	16.76	19.51	0.86
4	7	0.0	24.0	R	0.875	RB0875	2.13	11.48	16.76	19.51	0.86
4	12	0.0	24.0	R	0.875	RB0875	2.13	11.48	16.76	19.51	0.86

BASE REACTIONS:

Wall Id	Bay Id	Col Id	Wind_Max Horz	Wind_Max Vert(+/-)	Seismic_Max Horz	Seismic_Max Vert(+/-)
2	3	3	-1.66	1.73	-2.99	3.11
2	3	4	1.66	1.73	2.99	3.11
2	8	8	-1.66	1.73	-2.99	3.11
2	8	9	1.66	1.73	2.99	3.11
2	12	12	-1.66	1.73	-2.99	3.11
2	12	13	1.66	1.73	2.99	3.11
4	3	3	-1.59	1.42	-2.97	2.66
4	3	4	1.59	1.42	2.97	2.66
4	7	7	-1.59	1.42	-2.97	2.66
4	7	8	1.59	1.42	2.97	2.66
4	12	12	-1.59	1.42	-2.97	2.66
4	12	13	1.59	1.42	2.97	2.66

Surf Id	Span Id	Brace Loc.	Purlin Size	Load Id	Axial(k) Calc	Axial(k) Allow	Axial(k) UC	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Axl+Mom UC
2	2	18.4	9Z13	1	1.37	11.36	0.12	-5.79	9.14	0.63	0.67
				2	0.96	11.36	0.08	-2.22	9.14	0.24	0.30
				3	1.37	11.36	0.12	0.99	7.76	0.13	0.23
				4	0.96	11.36	0.08	-0.20	9.14	0.02	0.10
2	3	18.4	9Z14	1	1.37	9.34	0.15	4.04	7.43	0.54	0.63
				2	1.85	9.34	0.20	1.66	7.43	0.22	0.40
				3	1.37	9.34	0.15	-0.77	7.43	0.10	0.24
				4	1.85	9.34	0.20	0.16	7.43	0.02	0.22
2	4	18.4	9Z15	1	1.65	8.27	0.20	-2.73	6.35	0.43	0.58
				2	4.42	8.27	0.53	-1.18	6.35	0.19	0.72
				3	1.65	8.27	0.20	0.57	6.32	0.09	0.28
				4	4.42	8.27	0.53	-0.12	6.35	0.02	0.55
2	5	18.4	9Z15	1	0.59	8.27	0.07	2.64	6.35	0.42	0.43
				2	1.46	8.27	0.18	1.15	6.35	0.18	0.34
				3	0.59	8.27	0.07	-0.56	6.35	0.09	0.15

				4	1.46	8.27	0.18	0.11	6.35	0.02	0.19
2	6	18.4	9Z15	1	0.59	8.27	0.07	-2.60	6.35	0.41	0.42
				2	0.57	8.27	0.07	-1.13	6.35	0.18	0.22
				3	0.59	8.27	0.07	0.55	6.35	0.09	0.15
				4	0.57	8.27	0.07	-0.11	6.35	0.02	0.08
2	7	18.4	9Z15	1	0.59	8.27	0.07	2.59	6.35	0.41	0.42
				2	1.21	8.27	0.15	1.13	6.35	0.18	0.30
				3	0.59	8.27	0.07	-0.55	6.35	0.09	0.15
				4	1.21	8.27	0.15	0.11	6.35	0.02	0.16
2	8	18.4	9Z15	1	0.59	8.27	0.07	-2.59	6.35	0.41	0.42
				2	2.10	8.27	0.25	1.13	6.35	0.18	0.42
				3	0.59	8.27	0.07	-0.55	6.35	0.09	0.15
				4	2.10	8.27	0.25	-0.11	6.35	0.02	0.27
2	9	18.4	9Z15	1	0.87	8.27	0.11	2.59	6.35	0.41	0.46
				2	4.67	8.27	0.57	1.13	6.35	0.18	0.74
				3	0.87	8.27	0.11	-0.55	6.35	0.09	0.18
				4	4.67	8.27	0.57	-0.11	6.35	0.02	0.58
2	10	18.4	9Z15	1	0.59	8.27	0.07	2.59	6.35	0.41	0.42
				2	1.21	8.27	0.15	1.13	6.35	0.18	0.30
				3	0.59	8.27	0.07	-0.55	6.35	0.09	0.15
				4	1.21	8.27	0.15	0.11	6.35	0.02	0.16
2	11	18.4	9Z15	1	0.59	8.27	0.07	-2.60	6.35	0.41	0.42
				2	0.57	8.27	0.07	-1.13	6.35	0.18	0.22
				3	0.59	8.27	0.07	0.55	6.35	0.09	0.15
				4	0.57	8.27	0.07	-0.11	6.35	0.02	0.08
2	12	18.4	9Z15	1	0.59	8.27	0.07	2.64	6.35	0.42	0.43
				2	1.46	8.27	0.18	1.15	6.35	0.18	0.34
				3	0.59	8.27	0.07	-0.56	6.35	0.09	0.15
				4	1.46	8.27	0.18	0.11	6.35	0.02	0.19
2	13	18.4	9Z15	1	1.65	8.27	0.20	-2.73	6.35	0.43	0.58
				2	4.42	8.27	0.53	-1.18	6.35	0.19	0.72
				3	1.65	8.27	0.20	0.57	6.32	0.09	0.28
				4	4.42	8.27	0.53	-0.12	6.35	0.02	0.55
2	14	18.4	9Z14	1	1.37	9.34	0.15	4.04	7.43	0.54	0.63
				2	1.85	9.34	0.20	1.66	7.43	0.22	0.40
				3	1.37	9.34	0.15	-0.77	7.43	0.10	0.24
				4	1.85	9.34	0.20	0.16	7.43	0.02	0.22
2	15	18.4	9Z13	1	1.37	11.36	0.12	-5.79	9.14	0.63	0.67
				2	0.96	11.36	0.08	-2.22	9.14	0.24	0.30
				3	1.37	11.36	0.12	0.99	7.76	0.13	0.23
				4	0.96	11.36	0.08	-0.20	9.14	0.02	0.10
2	2	36.9	9Z13	1	1.06	11.36	0.09	-5.79	9.14	0.63	0.64
				2	0.84	11.36	0.07	-2.22	9.14	0.24	0.28
				3	1.06	11.36	0.09	0.99	7.76	0.13	0.20
				4	0.84	11.36	0.07	-0.20	9.14	0.02	0.09
2	3	36.9	9Z14	1	1.06	9.34	0.11	4.04	7.43	0.54	0.59
				2	1.62	9.34	0.17	1.66	7.43	0.22	0.37
				3	1.06	9.34	0.11	-0.77	7.43	0.10	0.20
				4	1.62	9.34	0.17	0.16	7.43	0.02	0.19
2	4	36.9	9Z15	1	1.06	8.27	0.13	-2.73	6.35	0.43	0.51
				2	2.40	8.27	0.29	-1.18	6.35	0.19	0.46
				3	1.06	8.27	0.13	0.57	6.32	0.09	0.21
				4	2.40	8.27	0.29	-0.12	6.35	0.02	0.31
2	5	36.9	9Z15	1	0.45	8.27	0.05	2.64	6.35	0.42	0.41
				2	1.28	8.27	0.15	1.15	6.35	0.18	0.31
				3	0.45	8.27	0.05	-0.56	6.35	0.09	0.13
				4	1.28	8.27	0.15	0.11	6.35	0.02	0.17

2	6	36.9	9Z15	1	0.45	8.27	0.05	-2.60	6.35	0.41	0.41
				2	0.50	8.27	0.06	-1.13	6.35	0.18	0.21
				3	0.45	8.27	0.05	0.55	6.35	0.09	0.13
				4	0.50	8.27	0.06	-0.11	6.35	0.02	0.08
2	7	36.9	9Z15	1	0.45	8.27	0.05	2.59	6.35	0.41	0.41
				2	1.06	8.27	0.13	1.13	6.35	0.18	0.28
				3	0.45	8.27	0.05	-0.55	6.35	0.09	0.13
				4	1.06	8.27	0.13	0.11	6.35	0.02	0.14
2	8	36.9	9Z15	1	0.45	8.27	0.05	-2.59	6.35	0.41	0.41
				2	1.84	8.27	0.22	1.13	6.35	0.18	0.38
				3	0.45	8.27	0.05	-0.55	6.35	0.09	0.13
				4	1.84	8.27	0.22	-0.11	6.35	0.02	0.24
2	9	36.9	9Z15	1	0.45	8.27	0.05	2.59	6.35	0.41	0.41
				2	2.62	8.27	0.32	1.13	6.35	0.18	0.48
				3	0.45	8.27	0.05	-0.55	6.35	0.09	0.13
				4	2.62	8.27	0.32	-0.11	6.35	0.02	0.33
2	10	36.9	9Z15	1	0.45	8.27	0.05	2.59	6.35	0.41	0.41
				2	1.06	8.27	0.13	1.13	6.35	0.18	0.28
				3	0.45	8.27	0.05	-0.55	6.35	0.09	0.13
				4	1.06	8.27	0.13	0.11	6.35	0.02	0.14
2	11	36.9	9Z15	1	0.45	8.27	0.05	-2.60	6.35	0.41	0.41
				2	0.50	8.27	0.06	-1.13	6.35	0.18	0.21
				3	0.45	8.27	0.05	0.55	6.35	0.09	0.13
				4	0.50	8.27	0.06	-0.11	6.35	0.02	0.08
2	12	36.9	9Z15	1	0.45	8.27	0.05	2.64	6.35	0.42	0.41
				2	1.28	8.27	0.15	1.15	6.35	0.18	0.31
				3	0.45	8.27	0.05	-0.56	6.35	0.09	0.13
				4	1.28	8.27	0.15	0.11	6.35	0.02	0.17
2	13	36.9	9Z15	1	1.06	8.27	0.13	-2.73	6.35	0.43	0.51
				2	2.40	8.27	0.29	-1.18	6.35	0.19	0.46
				3	1.06	8.27	0.13	0.57	6.32	0.09	0.21
				4	2.40	8.27	0.29	-0.12	6.35	0.02	0.31
2	14	36.9	9Z14	1	1.06	9.34	0.11	4.04	7.43	0.54	0.59
				2	1.62	9.34	0.17	1.66	7.43	0.22	0.37
				3	1.06	9.34	0.11	-0.77	7.43	0.10	0.20
				4	1.62	9.34	0.17	0.16	7.43	0.02	0.19
2	15	36.9	9Z13	1	1.06	11.36	0.09	-5.79	9.14	0.63	0.64
				2	0.84	11.36	0.07	-2.22	9.14	0.24	0.28
				3	1.06	11.36	0.09	0.99	7.76	0.13	0.20
				4	0.84	11.36	0.07	-0.20	9.14	0.02	0.09
2	2	50.7	9Z13	1	1.27	11.36	0.11	-5.79	9.14	0.63	0.66
				2	0.86	11.36	0.08	-2.22	9.14	0.24	0.29
				3	1.27	11.36	0.11	0.99	7.76	0.13	0.22
				4	0.86	11.36	0.08	-0.20	9.14	0.02	0.10
2	3	50.7	9Z14	1	1.27	9.34	0.14	4.04	7.43	0.54	0.61
				2	1.66	9.34	0.18	1.66	7.43	0.22	0.38
				3	1.27	9.34	0.14	-0.77	7.43	0.10	0.23
				4	1.66	9.34	0.18	0.16	7.43	0.02	0.20
2	4	50.7	9Z15	1	1.60	8.27	0.19	-2.73	6.35	0.43	0.58
				2	4.47	8.27	0.54	-1.18	6.35	0.19	0.72
				3	1.60	8.27	0.19	0.57	6.32	0.09	0.27
				4	4.47	8.27	0.54	-0.12	6.35	0.02	0.56
2	5	50.7	9Z15	1	0.54	8.27	0.07	2.64	6.35	0.42	0.42
				2	1.31	8.27	0.16	1.15	6.35	0.18	0.32
				3	0.54	8.27	0.07	-0.56	6.35	0.09	0.14
				4	1.31	8.27	0.16	0.11	6.35	0.02	0.17
2	6	50.7	9Z15	1	0.54	8.27	0.07	-2.60	6.35	0.41	0.42

				2	0.51	8.27	0.06	-1.13	6.35	0.18	0.22
				3	0.54	8.27	0.07	0.55	6.35	0.09	0.14
				4	0.51	8.27	0.06	-0.11	6.35	0.02	0.08
2	7	50.7	9Z15	1	0.54	8.27	0.07	2.59	6.35	0.41	0.42
				2	1.09	8.27	0.13	1.13	6.35	0.18	0.29
				3	0.54	8.27	0.07	-0.55	6.35	0.09	0.14
				4	1.09	8.27	0.13	0.11	6.35	0.02	0.15
2	8	50.7	9Z15	1	0.54	8.27	0.07	-2.59	6.35	0.41	0.42
				2	1.89	8.27	0.23	1.13	6.35	0.18	0.39
				3	0.54	8.27	0.07	-0.55	6.35	0.09	0.14
				4	1.89	8.27	0.23	-0.11	6.35	0.02	0.24
2	9	50.7	9Z15	1	0.87	8.27	0.11	2.59	6.35	0.41	0.46
				2	4.70	8.27	0.57	1.13	6.35	0.18	0.74
				3	0.87	8.27	0.11	-0.55	6.35	0.09	0.18
				4	4.70	8.27	0.57	-0.11	6.35	0.02	0.59
2	10	50.7	9Z15	1	0.54	8.27	0.07	2.59	6.35	0.41	0.42
				2	1.09	8.27	0.13	1.13	6.35	0.18	0.29
				3	0.54	8.27	0.07	-0.55	6.35	0.09	0.14
				4	1.09	8.27	0.13	0.11	6.35	0.02	0.15
2	11	50.7	9Z15	1	0.54	8.27	0.07	-2.60	6.35	0.41	0.42
				2	0.51	8.27	0.06	-1.13	6.35	0.18	0.22
				3	0.54	8.27	0.07	0.55	6.35	0.09	0.14
				4	0.51	8.27	0.06	-0.11	6.35	0.02	0.08
2	12	50.7	9Z15	1	0.54	8.27	0.07	2.64	6.35	0.42	0.42
				2	1.31	8.27	0.16	1.15	6.35	0.18	0.32
				3	0.54	8.27	0.07	-0.56	6.35	0.09	0.14
				4	1.31	8.27	0.16	0.11	6.35	0.02	0.17
2	13	50.7	9Z15	1	1.60	8.27	0.19	-2.73	6.35	0.43	0.58
				2	4.47	8.27	0.54	-1.18	6.35	0.19	0.72
				3	1.60	8.27	0.19	0.57	6.32	0.09	0.27
				4	4.47	8.27	0.54	-0.12	6.35	0.02	0.56
2	14	50.7	9Z14	1	1.27	9.34	0.14	4.04	7.43	0.54	0.61
				2	1.66	9.34	0.18	1.66	7.43	0.22	0.38
				3	1.27	9.34	0.14	-0.77	7.43	0.10	0.23
				4	1.66	9.34	0.18	0.16	7.43	0.02	0.20
2	15	50.7	9Z13	1	1.27	11.36	0.11	-5.79	9.14	0.63	0.66
				2	0.86	11.36	0.08	-2.22	9.14	0.24	0.29
				3	1.27	11.36	0.11	0.99	7.76	0.13	0.22
				4	0.86	11.36	0.08	-0.20	9.14	0.02	0.10

Wall Id	Bay Id	Eave Size	Bay Width	Axial_Calc Wind	Axial_Calc Seis	Axial Allow	Axial Ratio
2	1	8C16L	20.00	1.07	0.59	7.87	0.14
2	2	8C16L	20.00	1.07	1.13	7.87	0.14
2	3	8C16L	20.00	2.12	7.47	7.87	0.95
2	4	8C16L	20.00	0.46	0.90	7.87	0.11
2	5	8C16L	20.00	0.46	0.35	7.87	0.06
2	6	8C16L	20.00	0.46	0.74	7.87	0.09
2	7	8C16L	20.00	0.46	1.29	7.87	0.16

2	8	8C16L	20.00	1.51	7.62	7.87	0.97
2	9	8C16L	20.00	0.46	0.74	7.87	0.09
2	10	8C16L	20.00	0.46	0.35	7.87	0.06
2	11	8C16L	20.00	0.46	0.90	7.87	0.11
2	12	8C16L	20.00	2.12	7.47	7.87	0.95
2	13	8C16L	20.00	1.07	1.13	7.87	0.14
2	14	8C16L	20.00	1.07	0.59	7.87	0.14
4	14	8C16L	20.00	0.91	0.55	7.87	0.12
4	13	8C16L	20.00	0.91	1.07	7.87	0.14
4	12	8C16L	20.00	1.98	7.47	7.87	0.95
4	11	8C16L	20.00	0.39	0.85	7.87	0.11
4	10	8C16L	20.00	0.39	0.33	7.87	0.05
4	9	8C16L	20.00	0.39	0.70	7.87	0.09
4	8	8C16L	20.00	0.39	1.22	7.87	0.15
4	7	8C16L	20.00	1.46	7.62	7.87	0.97
4	6	8C16L	20.00	0.39	0.70	7.87	0.09
4	5	8C16L	20.00	0.39	0.33	7.87	0.05
4	4	8C16L	20.00	0.39	0.85	7.87	0.11
4	3	8C16L	20.00	1.98	7.47	7.87	0.95
4	2	8C16L	20.00	0.91	1.07	7.87	0.14
4	1	8C16L	20.00	0.91	0.55	7.87	0.12

EAVE STRUTS:

Wall Id	Frm_Line Id	Type	Bolt_Selected No.	Type	Dia	Wshr	Bolt_Capacity Calc	Allow	Ratio
2	1	RF	2	A307	0.500	0	1.07	4.22	0.25
2	2	RF	2	A307	0.500	0	1.13	4.22	0.27
2	3	RF	2	A325	0.500	3 ##	7.47	8.25	0.91
2	4	RF	2	A325	0.500	3 ##	7.47	8.25	0.91
2	5	RF	2	A307	0.500	0	0.90	4.22	0.21
2	6	RF	2	A307	0.500	0	0.74	4.22	0.18
2	7	RF	2	A307	0.500	0	1.29	4.22	0.31
2	8	RF	2	A325	0.500	3 ##	7.62	8.25	0.92
2	9	RF	2	A325	0.500	3 ##	7.62	8.25	0.92
2	10	RF	2	A307	0.500	0	0.74	4.22	0.18
2	11	RF	2	A307	0.500	0	0.90	4.22	0.21
2	12	RF	2	A325	0.500	3 ##	7.47	8.25	0.91
2	13	RF	2	A325	0.500	3 ##	7.47	8.25	0.91
2	14	RF	2	A307	0.500	0	1.13	4.22	0.27
2	15	EW	2	A307	0.500	0	1.07	4.22	0.25
4	1	RF	2	A307	0.500	0	0.91	4.22	0.22
4	2	RF	2	A307	0.500	0	1.07	4.22	0.25
4	3	RF	2	A325	0.500	3 ##	7.47	8.25	0.91

4	4	RF	2	A325	0.500	3	##	7.47	8.25	0.91
4	5	RF	2	A307	0.500	0		0.85	4.22	0.20
4	6	RF	2	A307	0.500	0		0.70	4.22	0.17
4	7	RF	2	A307	0.500	0		1.22	4.22	0.29
4	8	RF	2	A325	0.500	3	##	7.62	8.25	0.92
4	9	RF	2	A325	0.500	3	##	7.62	8.25	0.92
4	10	RF	2	A307	0.500	0		0.70	4.22	0.17
4	11	RF	2	A307	0.500	0		0.85	4.22	0.20
4	12	RF	2	A325	0.500	3	##	7.47	8.25	0.91
4	13	RF	2	A325	0.500	3	##	7.47	8.25	0.91
4	14	RF	2	A307	0.500	0		1.07	4.22	0.25
4	15	EW	2	A307	0.500	0		0.91	4.22	0.22

PURLINS:

Surf Id	Frm_Line Id	Type	Brace Loc	----Bolt_Selected----- No.	Type	Dia	Wshr	Load Id	---Bolt_Capacity--- Calc	Allow	Ratio
2	1	RF	18.44	2	A307	0.500	0	1	1.37	4.42	0.31
2	2	RF	18.44	2	A307	0.500	0	1	1.37	4.42	0.31
2	3	RF	18.44	2	A307	0.500	0	2	3.53	4.42	0.80
2	4	RF	18.44	2	A307	0.500	0	2	3.14	4.42	0.71
2	5	RF	18.44	2	A307	0.500	0	1	0.59	4.42	0.13
2	6	RF	18.44	2	A307	0.500	0	1	0.59	4.42	0.13
2	7	RF	18.44	2	A307	0.500	0	2	1.21	4.42	0.27
2	8	RF	18.44	2	A307	0.500	0	2	3.78	4.42	0.86
2	9	RF	18.44	2	A307	0.500	0	2	2.89	4.42	0.65
2	10	RF	18.44	2	A307	0.500	0	1	0.59	4.42	0.13
2	11	RF	18.44	2	A307	0.500	0	1	0.59	4.42	0.13
2	12	RF	18.44	2	A307	0.500	0	2	3.14	4.42	0.71
2	13	RF	18.44	2	A307	0.500	0	2	3.53	4.42	0.80
2	14	RF	18.44	2	A307	0.500	0	1	1.37	4.42	0.31
2	15	EW	18.44	2	A307	0.500	0	1	1.37	4.42	0.31
2	1	RF	36.88	2	A307	0.500	0	1	1.06	4.42	0.24
2	2	RF	36.88	2	A307	0.500	0	1	1.06	4.42	0.24
2	3	RF	36.88	2	A307	0.500	0	2	1.62	4.42	0.37
2	4	RF	36.88	2	A307	0.500	0	2	1.28	4.42	0.29
2	5	RF	36.88	2	A307	0.500	0	2	0.50	4.42	0.11
2	6	RF	36.88	2	A307	0.500	0	1	0.45	4.42	0.10
2	7	RF	36.88	2	A307	0.500	0	2	1.06	4.42	0.24
2	8	RF	36.88	2	A307	0.500	0	2	1.84	4.42	0.42
2	9	RF	36.88	2	A307	0.500	0	2	1.06	4.42	0.24
2	10	RF	36.88	2	A307	0.500	0	1	0.45	4.42	0.10
2	11	RF	36.88	2	A307	0.500	0	2	0.50	4.42	0.11
2	12	RF	36.88	2	A307	0.500	0	2	1.28	4.42	0.29
2	13	RF	36.88	2	A307	0.500	0	2	1.62	4.42	0.37
2	14	RF	36.88	2	A307	0.500	0	1	1.06	4.42	0.24
2	15	EW	36.88	2	A307	0.500	0	1	1.06	4.42	0.24
2	1	RF	50.72	2	A307	0.500	0	1	1.27	4.42	0.29
2	2	RF	50.72	2	A307	0.500	0	1	1.27	4.42	0.29
2	3	RF	50.72	2	A307	0.500	0	2	3.67	4.42	0.83
2	4	RF	50.72	2	A307	0.500	0	2	3.32	4.42	0.75
2	5	RF	50.72	2	A307	0.500	0	1	0.54	4.42	0.12
2	6	RF	50.72	2	A307	0.500	0	1	0.54	4.42	0.12
2	7	RF	50.72	2	A307	0.500	0	2	1.09	4.42	0.25
2	8	RF	50.72	2	A307	0.500	0	2	3.90	4.42	0.88

2	9	RF	50.72	2	A307	0.500	0	2	3.10	4.42	0.70
2	10	RF	50.72	2	A307	0.500	0	1	0.54	4.42	0.12
2	11	RF	50.72	2	A307	0.500	0	1	0.54	4.42	0.12
2	12	RF	50.72	2	A307	0.500	0	2	3.32	4.42	0.75
2	13	RF	50.72	2	A307	0.500	0	2	3.67	4.42	0.83
2	14	RF	50.72	2	A307	0.500	0	1	1.27	4.42	0.29
2	15	EW	50.72	2	A307	0.500	0	1	1.27	4.42	0.29

##NOTE : Not standard bolt connection

W28886 Roof Design Weight Summary 2/ 1/06 10:06am

Roof Purlins	=	18752.24
Eave Struts	=	1672.83
Roof Bracing	=	193.66
Wall Bracing	=	684.16
Total	=	21302.89

W28886 Roof Design Warning Report 2/ 1/06 10:06am

.. No Warnings

```
*==========================================================================
*W28886                  Sidewall Design Input                  2/ 1/06  10:06am
*==========================================================================


*(1)JOBID:
    'W28886'

*(2)PROGRAM OPTIONS:
*Sidewall  Run     Run     Lap
*   Id     Girt   Panel Stiff
   'F'      'Y'    'Y'    0.50

*(3)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code   Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(4)DESIGN CONSTANTS:
*                                                  Wind
* ---Steel_Yield(ksi  )--   Stress_Ratio  Strength
* C_Sec  W_Sec R_Sec Panel  Girt   Panel   Factor
   55.0  50.0  36.0  80.0   1.03    1.03   1.0000

*(5)DEFLECTION LIMITS:
*
* ---Girt---  --Panel---  Part
* Wall Facia  Wall Facia  Wall
   90.    0.   90.    0.   90.

*(6)REPORTS:
*   Input  Wall  Door  Wall
*   Echo   Girt  Jamb  Panel
    'I'    'Y'   'Y'   'Y'

*(7)BUILDING TYPE:
* Build    L_Expand_EW  R_Expand_EW
*  Type    Use  Offset  Use  Offset
  'FF-'    'Y '  4.000  'N '  0.000

*(8)SURFACE SHAPE:
*  No.     X_Coord  Y_Coord  Offset
*  Surf      (ft)     (ft)    (in)
    3       0.0000  24.0000   9.000
           70.0000  26.9167   8.000
           70.0000   0.0000   9.000


*(9)SIDEWALL BAY SPACING:
* Sets_Of   Bay   No.
*  Bays    Width  Bays
     1   20.0000   14


*(10)FRAMED OPENINGS:
```

```
*  No.   Bay    Open     Open      Open    Open    Sill    Base     Set    Member Remove
* Open   Id    Width    Height    Offset  Type   Height  Elev    Depth  Select Panel
    4     4  14.0000 16.0000    1.0000    41   0.0000  0.000   0.000   'CU'   'Y'
          7  14.0000 16.0000    1.0000    41   0.0000  0.000   0.000   'CU'   'Y'
         10  14.0000 16.0000    5.0000    41   0.0000  0.000   0.000   'CU'   'Y'
         13  14.0000 16.0000    5.0000    41   0.0000  0.000   0.000   'CU'   'Y'


*(11)PARTIAL WALLS:
* Set_Of  Base  Full    --Bay_Id--     Wall
*  Bays   Type  Load    Start  End    Height
     2    'A '   'N'      1     1    26.9167
          'A '   'N'      2    14     4.0000


*(12)GIRT DESIGN:
* Girt  OS_Flg  IS_Flg   Set      Set     Max     Max_Unbr
* Type   Brace   Brace  Depth     Lap   Space     Length
  'ZB'    'C'     'Y'   9.000  0.0000  7.3333  13.0000

*(13)GIRT LOCATION:
* Set   No.   Girt
* Loc  Girt  Location
  'P'    4    7.3333  12.0833  16.8333  21.5000

*(14)SPECIAL GIRT:
* Sets_Of  --Bay_Id--   Girt  Girt   Girt
*  Girts   Start  End  Height Type  Rotate
     0

*(15)WALL PANELS/GUTTERS:
* Wall       -----Gutter-----   Insulation
* Panel    Use  Type  Width   Use  Thick
 '26  A   ' '-'  'N'   0.000   'N'  0.000

*(16)FACIA/PARAPET:
*
*                 Location                        Edge_Extend
* No.   Ext Facia  Bay  Bay                      Left    Right    Ext
* Ext   Id  Type  Start End   Elev  Height       (ft)     (ft)   Mount
   0

*(17)FACIA/PARAPET GIRTS:
*
*Ext ----Top----  --Interior-  ---Gutter--  ---Back_Panel---  Angle
*Id  Type Rotate  Type Rotate  Type Rotate    Part   Rotate  Spacing

*(18)BASIC LOADS:
*                              -----Edge_Strip_Ratio-----
*  Basic   Wind_Load_Ratio    Zone                    Col/
*  Wind    Deflect  Factor    Width   Girt  Panel    Jamb
    12.3    1.00     1.00     7.000   1.00   1.00    1.00

*(19)WIND PRESSURE/SUCTION:
*     Wind      Wind
*    Pressure  Suction
     10.8      -11.9      .. Girt/Header
```

```
     13.3      -14.4      .. Panel
     10.8      -11.8      .. Jamb
     22.2      -13.6      .. Parapet Girt

*(20)GIRT LAPS:
*
*      Data  ------Set_1-------  ------Set_2-------  ------Set_3-------
* Opt  Sets  Left    Right Quan  Left    Right Quan  Left    Right Quan
  '-'   0

*(21)GIRT STRAPS:
*
*     Data  ---Set_1---  ---Set_2---  ---Set_3---  ---Set_4---
*Opt  Sets  Strap  Quan  Strap  Quan  Strap  Quan  Strap  Quan
 '-'   0

* Code file used was EW_IBC.03
```


STRUCTURAL CODE:
- Design Basis : WS
- Hot Rolled Steel : AISC89
- Cold Formed Steel : AISI96

BUILDING CODE:
- Wind Code : IBC
- Year : 03
- Seismic Zone : C

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

GIRT: LEVEL # 1 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
2	9Z16	20.00		0.88	7.3333	1	65.9
3	9Z16	20.00	0.88		7.3333	1	65.9
4	9Z16	0.63			7.3333	1	2.0

133.9

WIND PRESSURE :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
2	0.33		-0.50	-0.54	0.00		-1.26	7.59	1.65	2.11
3	0.53	0.49		-0.35	2.11	1.66	-1.07	12.06		0.31
4	0.51			0.48	0.31		0.15	0.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
2	RL	-0.50	2.06	0.24	RL	1.65	5.24	0.31	RL	0.16	-0.20	2.67
3	LL	0.49	2.06	0.24	LL	1.66	5.24	0.32	LL	0.16	-0.16	2.67
4	LS	0.51	2.06	0.25	LS	0.31	5.24	0.06	LS	0.06	0.02	

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
2	-0.36		0.55	0.60	0.00		1.38	7.59	-1.82	-2.32
3	-0.58	-0.54		0.38	-2.32	-1.83	1.18	12.06		-0.34
4	-0.56			-0.53	-0.34		-0.17	0.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
2	RL	0.55	2.06	0.27	MS	1.38	3.67	0.38	RL	0.19	0.22	2.67
3	LL	-0.54	2.06	0.26	LL	-1.83	5.24	0.35	LL	0.19	0.18	2.67
4	LS	-0.56	2.06	0.27	LS	-0.34	5.24	0.07	LS	0.08	-0.02	

GIRT: LEVEL # 1 ; SPAN # 2

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
4	9Z16	4.63		0.88	7.3333	1	17.4
5	9Z16	20.00	0.88	0.88	7.3333	1	68.7
6	9Z16	20.00	0.88		7.3333	1	65.9
7	9Z16	0.63			7.3333	1	2.0
							154.0

WIND PRESSURE :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
4	-0.32		-0.48	-0.52	0.00		0.85	2.31	1.50	1.94
5	0.45	0.41	-0.38	-0.42	1.94	1.56	-0.40	10.37	1.27	1.62
6	0.50	0.46		-0.37	1.62	1.20	-1.27	11.50		0.31
7	0.51			0.48	0.31		0.15	0.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
4	RL	-0.48	2.06	0.23	RL	1.50	5.24	0.29	RL	0.14	-0.16	
5	LL	0.41	2.06	0.20	LL	1.56	5.24	0.30	LL	0.13	-0.01	2.67
6	LL	0.46	2.06	0.23	MS	-1.27	5.24	0.24	LL	0.10	-0.23	2.67
7	LS	0.51	2.06	0.25	LS	0.31	5.24	0.06	LS	0.06	0.02	

WIND SUCTION :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup

4	0.35		0.53	0.57	0.00		-0.94	2.31	-1.66	-2.14
5	-0.50	-0.46	0.42	0.46	-2.14	-1.72	0.45	10.37	-1.40	-1.78
6	-0.55	-0.51		0.41	-1.78	-1.32	1.40	11.50		-0.34
7	-0.56			-0.53	-0.34		-0.17	0.31		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
4	RL	0.53	2.06	0.26	RL	-1.66	5.24	0.32	RL	0.17	0.18	
5	LL	-0.46	2.06	0.22	LL	-1.72	5.24	0.33	LL	0.16	0.01	2.67
6	LL	-0.51	2.06	0.25	MS	1.40	3.92	0.36	LL	0.12	0.25	2.67
7	LS	-0.56	2.06	0.27	LS	-0.34	5.24	0.07	LS	0.08	-0.03	

GIRT: LEVEL # 1 ; SPAN # 3

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	Lap(ft) Left	Lap(ft) Right	Girt Location	No. Brace	Girt Weight
7	9Z16	4.63		0.88	7.3333	1	17.4
8	9Z16	20.00	0.88	0.88	7.3333	1	68.7
9	9Z16	20.00	0.88	0.88	7.3333	1	68.7
10	9Z16	4.63	0.88		7.3333	1	17.4
							172.2

WIND PRESSURE :

GIRT ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
7	-0.32		-0.48	-0.52	0.00		0.85	2.31	1.50	1.94
8	0.47	0.43	-0.36	-0.40	1.94	1.55	-0.62	10.84	0.88	1.21
9	0.40	0.36	-0.43	-0.47	1.21	0.88	-0.62	9.16	1.55	1.94
10	0.52	0.48		0.32	1.94	1.50	0.85	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
7	RL	-0.48	2.06	0.23	RL	1.50	5.24	0.29	RL	0.14	-0.13	
8	LL	0.43	2.06	0.21	LL	1.55	5.24	0.29	LL	0.13	-0.06	2.67
9	RL	-0.43	2.06	0.21	RL	1.55	5.24	0.29	RL	0.13	-0.06	2.67
10	LL	0.48	2.06	0.23	LL	1.50	5.24	0.29	LL	0.14	-0.13	

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
7	0.35		0.53	0.57	0.00		-0.94	2.31	-1.66	-2.14
8	-0.52	-0.48	0.40	0.44	-2.14	-1.70	0.68	10.84	-0.97	-1.33
9	-0.44	-0.40	0.48	0.52	-1.33	-0.97	0.68	9.16	-1.70	-2.14
10	-0.57	-0.53		-0.35	-2.14	-1.66	-0.94	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
7	RL	0.53	2.06	0.26	RL	-1.66	5.24	0.32	RL	0.17	0.14	
8	LL	-0.48	2.06	0.23	LL	-1.70	5.24	0.33	LL	0.16	0.07	2.67
9	RL	0.48	2.06	0.23	RL	-1.70	5.24	0.33	RL	0.16	0.07	2.67
10	LL	-0.53	2.06	0.26	LL	-1.66	5.24	0.32	LL	0.17	0.14	

GIRT: LEVEL # 1 ; SPAN # 4

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	Lap(ft) Left	Lap(ft) Right	Girt Location	No. Brace	Girt Weight
10	9Z16	0.63			7.3333	1	2.0
11	9Z16	20.00		0.88	7.3333	1	65.9
12	9Z16	20.00	0.88	0.88	7.3333	1	68.7
13	9Z16	4.63	0.88		7.3333	1	17.4
							154.0

WIND PRESSURE :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
10	-0.48			-0.51	0.00		0.15	0.31		0.31
11	0.37		-0.46	-0.50	0.31		-1.27	8.50	1.20	1.62
12	0.42	0.38	-0.41	-0.45	1.62	1.27	-0.41	9.65	1.55	1.93
13	0.52	0.48		0.32	1.93	1.49	0.85	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
10	RS	-0.51	2.06	0.25	RS	0.31	5.24	0.06	RS	0.06	0.02	
11	RL	-0.46	2.06	0.23	MS	-1.27	5.24	0.24	RL	0.10	-0.22	2.67
12	RL	-0.41	2.06	0.20	RL	1.55	5.24	0.30	RL	0.13	-0.01	2.67
13	LL	0.48	2.06	0.23	LL	1.49	5.24	0.28	LL	0.14	-0.16	

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
10	0.53			0.56	0.00		-0.17	0.31		-0.34
11	-0.41		0.51	0.55	-0.34		1.39	8.50	-1.32	-1.79
12	-0.46	-0.42	0.46	0.50	-1.79	-1.40	0.45	9.65	-1.71	-2.13
13	-0.57	-0.53		-0.35	-2.13	-1.64	-0.93	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
10	RS	0.56	2.06	0.27	RS	-0.34	5.24	0.07	RS	0.08	-0.03	
11	RL	0.51	2.06	0.25	MS	1.39	3.92	0.36	RL	0.13	0.25	2.67
12	RL	0.46	2.06	0.22	RL	-1.71	5.24	0.33	RL	0.16	0.01	2.67
13	LL	-0.53	2.06	0.26	LL	-1.64	5.24	0.31	LL	0.16	0.17	

GIRT: LEVEL # 1 ; SPAN # 5

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
13	9Z16	0.63			7.3333	1	2.0
14	9Z16	20.00			7.3333	1	63.2
							65.2

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
13	-0.47			-0.50	0.00		0.15	0.31		0.30
14	0.45			-0.42	0.30		-2.03	10.35		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
13	RS	-0.50	2.06	0.24	RS	0.30	5.24	0.06	RS	0.06	0.04	
14	LS	0.45	2.06	0.22	MS	-2.03	5.24	0.39	RL	0.10	-0.44	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
13	0.52			0.55	0.00		-0.16	0.31		-0.33
14	-0.50			0.46	-0.33		2.24	10.35		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
13	RS	0.55	2.06	0.27	RS	-0.33	5.24	0.06	RS	0.07	-0.05	
14	LS	-0.50	2.06	0.24	MS	2.24	3.42	0.66	RL	0.12	0.48	2.67

GIRT: LEVEL # 2 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	Lap(ft) Left	Lap(ft) Right	Girt Location	No. Brace	Girt Weight
2	9Z16	20.00		0.88	12.0833	1	65.9
3	9Z16	20.00	0.88		12.0833	1	65.9
4	9Z16	0.63			12.0833	1	2.0
							133.9

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
2	0.39		-0.59	-0.64	0.00		-1.47	7.58	1.95	2.49
3	0.62	0.58		-0.40	2.49	1.96	-1.28	12.12		0.31
4	0.51			0.48	0.31		0.15	0.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
2	RL	-0.59	2.06	0.29	RL	1.95	5.24	0.37	RL	0.22	-0.24	2.67
3	LL	0.58	2.06	0.28	LL	1.96	5.24	0.37	LL	0.22	-0.19	2.67
4	LS	0.51	2.06	0.25	LS	0.31	5.24	0.06	LS	0.07	0.02	

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
2	-0.43		0.65	0.70	0.00		1.62	7.58	-2.15	-2.74
3	-0.69	-0.64		0.45	-2.74	-2.16	1.41	12.12		-0.34
4	-0.57			-0.53	-0.34		-0.17	0.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
2	RL	0.65	2.06	0.32	MS	1.62	3.67	0.44	RL	0.27	0.26	2.67
3	LL	-0.64	2.06	0.31	LL	-2.16	5.24	0.41	LL	0.27	0.21	2.67
4	LS	-0.57	2.06	0.27	LS	-0.34	5.24	0.07	LS	0.08	-0.02	

GIRT: LEVEL # 2 ; SPAN # 2

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	Lap(ft) Left	Lap(ft) Right	Girt Location	No. Brace	Girt Weight
4	9Z16	4.63		0.88	12.0833	1	17.4
5	9Z16	20.00	0.88	0.88	12.0833	1	68.7
6	9Z16	20.00	0.88		12.0833	1	65.9
7	9Z16	0.63			12.0833	1	2.0
							154.0

WIND PRESSURE :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup

4	-0.31		-0.50	-0.54	0.00		0.84	2.31	1.51	1.96
5	0.51	0.47	-0.47	-0.51	1.96	1.53	-0.59	9.97	1.57	2.00
6	0.60	0.55		-0.43	2.00	1.49	-1.48	11.64		0.31
7	0.51			0.48	0.31		0.15	0.31		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
4	RL	-0.50	2.06	0.24	RL	1.51	5.24	0.29	RL	0.14	-0.13	
5	RL	-0.47	2.06	0.23	RL	1.57	5.24	0.30	RL	0.14	-0.04	2.67
6	LL	0.55	2.06	0.27	LL	1.49	5.24	0.29	LL	0.15	-0.26	2.67
7	LS	0.51	2.06	0.25	LS	0.31	5.24	0.06	LS	0.07	0.03	

WIND SUCTION :

GIRT ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
	Left	Left	Right	Right	Left	Left	Mid-Span		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
4	0.34		0.55	0.60	0.00		-0.93	2.31	-1.66	-2.16
5	-0.56	-0.51	0.52	0.57	-2.16	-1.69	0.65	9.97	-1.73	-2.20
6	-0.66	-0.61		0.47	-2.20	-1.65	1.63	11.64		-0.34
7	-0.57			-0.53	-0.34		-0.17	0.31		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
4	RL	0.55	2.06	0.27	RL	-1.66	5.24	0.32	RL	0.17	0.15	
5	RL	0.52	2.06	0.25	RL	-1.73	5.24	0.33	RL	0.17	0.05	2.67
6	LL	-0.61	2.06	0.30	MS	1.63	3.86	0.42	LL	0.19	0.29	2.67
7	LS	-0.57	2.06	0.27	LS	-0.34	5.24	0.07	LS	0.08	-0.03	

GIRT: LEVEL # 2 ; SPAN # 3

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
7	9Z16	4.63		0.88	12.0833	1	17.4
8	9Z16	20.00	0.88	0.88	12.0833	1	68.7
9	9Z16	20.00	0.88	0.88	12.0833	1	68.7
10	9Z16	4.63	0.88		12.0833	1	17.4
							172.2

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	Loc	Right Lap	Right Sup
7	-0.31		-0.50	-0.54	0.00		0.84	2.31	1.51	1.96
8	0.53	0.49	-0.45	-0.49	1.96	1.52	-0.80	10.37	1.17	1.58
9	0.49	0.45	-0.49	-0.53	1.58	1.17	-0.80	9.63	1.52	1.96
10	0.54	0.50		0.31	1.96	1.51	0.84	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
7	RL	-0.50	2.06	0.24	RL	1.51	5.24	0.29	RL	0.14	-0.10	
8	LL	0.49	2.06	0.24	LL	1.52	5.24	0.29	LL	0.14	-0.10	2.67
9	RL	-0.49	2.06	0.24	RL	1.52	5.24	0.29	RL	0.14	-0.10	2.67
10	LL	0.50	2.06	0.24	LL	1.51	5.24	0.29	LL	0.14	-0.10	

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	Loc	Right Lap	Right Sup
7	0.34		0.55	0.60	0.00		-0.93	2.31	-1.66	-2.16
8	-0.59	-0.54	0.50	0.54	-2.16	-1.67	0.88	10.37	-1.29	-1.75
9	-0.54	-0.50	0.54	0.59	-1.75	-1.29	0.88	9.63	-1.67	-2.16
10	-0.60	-0.55		-0.34	-2.16	-1.66	-0.93	2.31		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)	Moment(f-k)	Mom+Shr	Deflection(in)

Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
7	RL	0.55	2.06	0.27	RL	-1.66	5.24	0.32	RL	0.17	0.11	
8	LL	-0.54	2.06	0.26	LL	-1.67	5.24	0.32	LL	0.17	0.11	2.67
9	RL	0.54	2.06	0.26	RL	-1.67	5.24	0.32	RL	0.17	0.11	2.67
10	LL	-0.55	2.06	0.27	LL	-1.66	5.24	0.32	LL	0.17	0.11	

GIRT: LEVEL # 2 ; SPAN # 4

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
10	9Z16	0.63			12.0833	1	2.0
11	9Z16	20.00		0.88	12.0833	1	65.9
12	9Z16	20.00	0.88	0.88	12.0833	1	68.7
13	9Z16	4.63	0.88		12.0833	1	17.4
							154.0

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
10	-0.48			-0.51	0.00		0.15	0.31		0.31
11	0.43		-0.55	-0.60	0.31		-1.48	8.34	1.51	2.01
12	0.52	0.47	-0.46	-0.51	2.01	1.58	-0.60	10.10	1.49	1.91
13	0.53	0.49		0.29	1.91	1.47	0.82	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
10	RS	-0.51	2.06	0.25	RS	0.31	5.24	0.06	RS	0.07	0.03	
11	RL	-0.55	2.06	0.27	RL	1.51	5.24	0.29	RL	0.15	-0.26	2.67
12	LL	0.47	2.06	0.23	LL	1.58	5.24	0.30	LL	0.14	-0.05	2.67
13	LL	0.49	2.06	0.24	LL	1.47	5.24	0.28	LL	0.13	-0.12	

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
10	0.53			0.57	0.00		-0.17	0.31		-0.34
11	-0.47		0.61	0.66	-0.34		1.63	8.34	-1.66	-2.21
12	-0.57	-0.52	0.51	0.56	-2.21	-1.74	0.67	10.10	-1.64	-2.11
13	-0.59	-0.54		-0.32	-2.11	-1.62	-0.90	2.31		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
10	RS	0.57	2.06	0.27	RS	-0.34	5.24	0.07	RS	0.08	-0.03	
11	RL	0.61	2.06	0.30	MS	1.63	3.86	0.42	RL	0.19	0.28	2.67
12	LL	-0.52	2.06	0.25	LL	-1.74	5.24	0.33	LL	0.17	0.05	2.67
13	LL	-0.54	2.06	0.26	LL	-1.62	5.24	0.31	LL	0.16	0.14	

GIRT: LEVEL # 2 ; SPAN # 5

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	Lap(ft) Left	Lap(ft) Right	Girt Location	No. Brace	Girt Weight
13	9Z16	0.63			12.0833	1	2.0
14	9Z16	20.00			12.0833	1	63.2
							65.2

WIND PRESSURE :

GIRT ANALYSIS:

Bay	Shear(k) Left	Shear(k) Left	Shear(k) Right	Shear(k) Right	Moment(f-k) Left	Moment(f-k) Left	Moment(f-k) Mid-Span	Moment(f-k) Right	Moment(f-k) Right

Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
13	-0.55			-0.58	0.00		0.17	0.31		0.35
14	0.53			-0.50	0.35		-2.39	10.34		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
13	RS	-0.58	2.06	0.28	RS	0.35	5.24	0.07	RS	0.08	0.05	
14	LS	0.53	2.06	0.26	MS	-2.39	5.24	0.46	RL	0.14	-0.52	2.67

WIND SUCTION :

GIRT ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
	Left	Left	Right	Right	Left	Left	Mid-Span		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
13	0.60			0.64	0.00		-0.19	0.31		-0.39
14	-0.58			0.55	-0.39		2.64	10.34		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
13	RS	0.64	2.06	0.31	RS	-0.39	5.24	0.07	RS	0.10	-0.05	
14	LS	-0.58	2.06	0.28	MS	2.64	3.42	0.77	RL	0.17	0.57	2.67

GIRT: LEVEL # 3 ; SPAN # 1

GIRT LAYOUT:

Bay	Girt	Bay	---Lap(ft)--		Girt	No.	Girt
Id	Size	Width	Left	Right	Location	Brace	Weight
2	9Z16	20.00		0.88	16.8333	1	65.9
3	9Z16	20.00	0.88	0.88	16.8333	1	68.7
4	9Z16	20.00	0.88	0.88	16.8333	1	68.7
5	9Z16	20.00	0.88	0.88	16.8333	1	68.7

6	9Z16	20.00	0.88	0.88	16.8333	1	68.7
7	9Z16	20.00	0.88	0.88	16.8333	1	68.7
8	9Z16	20.00	0.88	0.88	16.8333	1	68.7
9	9Z16	20.00	0.88	0.88	16.8333	1	68.7
10	9Z16	20.00	0.88	0.88	16.8333	1	68.7
11	9Z16	20.00	0.88	0.88	16.8333	1	68.7
12	9Z16	20.00	0.88	0.88	16.8333	1	68.7
13	9Z16	20.00	0.88	0.88	16.8333	1	68.7
14	9Z16	20.00	0.88		16.8333	1	65.9
							887.7

WIND PRESSURE :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
2	0.40		-0.57	-0.62	0.00		-1.57	7.85	1.66	2.18
3	0.55	0.50	-0.43	-0.47	2.18	1.72	-0.74	10.73	1.05	1.44
4	0.45	0.41	-0.57	-0.62	1.44	1.07	-0.77	11.38	1.28	1.80
5	0.51	0.47	-0.46	-0.50	1.80	1.37	-0.79	10.09	1.28	1.70
6	0.52	0.47	-0.46	-0.50	1.70	1.27	-0.91	10.13	1.15	1.57
7	0.46	0.41	-0.56	-0.61	1.57	1.18	-0.74	11.59	1.26	1.78
8	0.51	0.47	-0.46	-0.50	1.78	1.35	-0.83	10.12	1.23	1.65
9	0.50	0.46	-0.47	-0.51	1.65	1.23	-0.83	9.88	1.35	1.78
10	0.61	0.56	-0.41	-0.46	1.78	1.27	-0.74	8.43	1.17	1.55
11	0.50	0.45	-0.47	-0.52	1.56	1.14	-0.89	9.82	1.31	1.74
12	0.51	0.47	-0.46	-0.50	1.74	1.31	-0.85	10.09	1.23	1.65
13	0.58	0.54	-0.41	-0.45	1.65	1.16	-0.67	7.22	1.64	2.01
14	0.61	0.56		-0.41	2.01	1.50	-1.63	11.98		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
2	RL	-0.57	2.06	0.28	RL	1.66	5.24	0.32	RL	0.18	-0.27	2.67
3	LL	0.50	2.06	0.24	LL	1.72	5.24	0.33	LL	0.17	-0.08	2.67
4	RL	-0.57	2.06	0.28	RL	1.28	5.24	0.24	RL	0.14	-0.11	2.67
5	LL	0.47	2.06	0.23	LL	1.37	5.24	0.26	LL	0.12	-0.10	2.67
6	LL	0.47	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.13	2.67
7	RL	-0.56	2.06	0.27	RL	1.26	5.24	0.24	RL	0.13	-0.09	2.67
8	LL	0.47	2.06	0.23	LL	1.35	5.24	0.26	LL	0.12	-0.11	2.67
9	RL	-0.47	2.06	0.23	RL	1.35	5.24	0.26	RL	0.12	-0.11	2.67
10	LL	0.56	2.06	0.27	LL	1.27	5.24	0.24	LL	0.13	-0.10	2.67
11	RL	-0.47	2.06	0.23	RL	1.31	5.24	0.25	RL	0.12	-0.12	2.67
12	LL	0.47	2.06	0.23	LL	1.31	5.24	0.25	LL	0.11	-0.11	2.67
13	LL	0.54	2.06	0.26	RL	1.64	5.19	0.32	RL	0.14	-0.05	2.67
14	LL	0.56	2.06	0.27	MS	-1.63	5.24	0.31	LL	0.16	-0.29	2.67

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
2	-0.44		0.63	0.68	0.00		1.73	7.85	-1.83	-2.41
3	-0.60	-0.55	0.47	0.52	-2.41	-1.90	0.82	10.73	-1.15	-1.59
4	-0.50	-0.45	0.63	0.68	-1.59	-1.17	0.85	11.38	-1.40	-1.97
5	-0.57	-0.52	0.51	0.56	-1.97	-1.50	0.88	10.09	-1.41	-1.88
6	-0.57	-0.52	0.50	0.55	-1.88	-1.40	1.00	10.14	-1.26	-1.72
7	-0.50	-0.46	0.62	0.67	-1.72	-1.30	0.81	11.84	-1.39	-1.95
8	-0.57	-0.52	0.50	0.55	-1.95	-1.48	0.91	10.12	-1.36	-1.82
9	-0.55	-0.50	0.52	0.57	-1.82	-1.36	0.91	9.88	-1.48	-1.96
10	-0.67	-0.62	0.45	0.50	-1.96	-1.39	0.81	8.18	-1.29	-1.71
11	-0.55	-0.50	0.52	0.57	-1.71	-1.25	0.99	9.81	-1.44	-1.92
12	-0.57	-0.52	0.51	0.55	-1.92	-1.45	0.94	10.10	-1.35	-1.81
13	-0.64	-0.59	0.45	0.49	-1.81	-1.27	0.73	7.22	-1.81	-2.22
14	-0.67	-0.62		0.45	-2.22	-1.65	1.80	11.98		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
2	RL	0.63	2.06	0.31	MS	1.73	3.67	0.47	RL	0.22	0.30	2.67
3	LL	-0.55	2.06	0.27	LL	-1.90	5.24	0.36	LL	0.20	0.09	2.67
4	RL	0.63	2.06	0.30	RL	-1.40	5.24	0.27	RL	0.16	0.12	2.67
5	LL	-0.52	2.06	0.25	LL	-1.50	5.24	0.29	LL	0.14	0.11	2.67
6	LL	-0.52	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.14	2.67
7	RL	0.62	2.06	0.30	RL	-1.39	5.24	0.27	RL	0.16	0.10	2.67
8	LL	-0.52	2.06	0.25	LL	-1.48	5.24	0.28	LL	0.14	0.12	2.67
9	RL	0.52	2.06	0.25	RL	-1.48	5.24	0.28	RL	0.14	0.12	2.67
10	LL	-0.62	2.06	0.30	LL	-1.39	5.24	0.27	LL	0.16	0.10	2.67
11	RL	0.52	2.06	0.25	RL	-1.44	5.24	0.28	RL	0.14	0.14	2.67
12	LL	-0.52	2.06	0.25	LL	-1.45	5.24	0.28	LL	0.14	0.12	2.67
13	LL	-0.59	2.06	0.29	RL	-1.81	5.24	0.34	RL	0.17	0.06	2.67
14	LL	-0.62	2.06	0.30	MS	1.80	3.67	0.49	LL	0.19	0.32	2.67

GIRT: LEVEL # 4 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
2	9Z16	20.00		0.88	21.5000	1	65.9
3	9Z16	20.00	0.88	0.88	21.5000	1	68.7
4	9Z16	20.00	0.88	0.88	21.5000	1	68.7
5	9Z16	20.00	0.88	0.88	21.5000	1	68.7
6	9Z16	20.00	0.88	0.88	21.5000	1	68.7
7	9Z16	20.00	0.88	0.88	21.5000	1	68.7
8	9Z16	20.00	0.88	0.88	21.5000	1	68.7
9	9Z16	20.00	0.88	0.88	21.5000	1	68.7
10	9Z16	20.00	0.88	0.88	21.5000	1	68.7
11	9Z16	20.00	0.88	0.88	21.5000	1	68.7
12	9Z16	20.00	0.88	0.88	21.5000	1	68.7
13	9Z16	20.00	0.88	0.88	21.5000	1	68.7
14	9Z16	20.00	0.88		21.5000	1	65.9
							887.7

WIND PRESSURE :

GIRT ANALYSIS:

	---------Shear(k)--------				----------Moment(f-k)----------					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
2	0.40		-0.57	-0.62	0.00		-1.58	7.89	1.63	2.15
3	0.54	0.49	-0.44	-0.48	2.15	1.70	-0.69	10.57	1.17	1.57
4	0.50	0.46	-0.47	-0.52	1.57	1.15	-0.89	9.85	1.30	1.73
5	0.51	0.47	-0.46	-0.51	1.73	1.30	-0.84	10.04	1.26	1.69
6	0.51	0.46	-0.46	-0.51	1.69	1.26	-0.85	9.99	1.27	1.70
7	0.51	0.46	-0.46	-0.51	1.70	1.27	-0.85	10.00	1.27	1.69
8	0.51	0.46	-0.46	-0.51	1.69	1.27	-0.85	10.00	1.27	1.69
9	0.51	0.46	-0.46	-0.51	1.69	1.27	-0.85	10.00	1.27	1.70
10	0.51	0.46	-0.46	-0.51	1.70	1.27	-0.85	10.01	1.26	1.69
11	0.51	0.46	-0.47	-0.51	1.69	1.26	-0.84	9.96	1.30	1.73
12	0.52	0.47	-0.46	-0.50	1.73	1.30	-0.89	10.15	1.15	1.57
13	0.48	0.44	-0.49	-0.54	1.57	1.17	-0.69	9.43	1.70	2.15
14	0.62	0.57		-0.40	2.15	1.63	-1.58	12.11		0.00

STRENGTH/DEFLECTION:

Span Id	------Shear(k)------ Loc	Calc	Allow	UC	-----Moment(f-k)---- Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
2	RL	-0.57	2.06	0.28	RL	1.63	5.24	0.31	RL	0.17	-0.28	2.67
3	LL	0.49	2.06	0.24	LL	1.70	5.24	0.32	LL	0.16	-0.07	2.67
4	RL	-0.47	2.06	0.23	RL	1.30	5.24	0.25	RL	0.11	-0.12	2.67
5	LL	0.47	2.06	0.23	LL	1.30	5.24	0.25	LL	0.11	-0.11	2.67
6	RL	-0.46	2.06	0.23	RL	1.27	5.24	0.24	RL	0.11	-0.11	2.67
7	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67

8	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67
9	RL	-0.46	2.06	0.23	RL	1.27	5.24	0.24	RL	0.11	-0.11	2.67
10	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67
11	RL	-0.47	2.06	0.23	RL	1.30	5.24	0.25	RL	0.11	-0.11	2.67
12	LL	0.47	2.06	0.23	LL	1.30	5.24	0.25	LL	0.11	-0.12	2.67
13	RL	-0.49	2.06	0.24	RL	1.70	5.24	0.32	RL	0.16	-0.07	2.67
14	LL	0.57	2.06	0.28	LL	1.63	5.24	0.31	LL	0.17	-0.28	2.67

WIND SUCTION :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
2	-0.44		0.63	0.68	0.00		1.74	7.89	-1.80	-2.37
3	-0.59	-0.54	0.48	0.53	-2.37	-1.87	0.76	10.57	-1.29	-1.73
4	-0.55	-0.50	0.52	0.57	-1.73	-1.27	0.98	9.85	-1.43	-1.90
5	-0.56	-0.51	0.51	0.56	-1.90	-1.43	0.92	10.04	-1.39	-1.86
6	-0.56	-0.51	0.51	0.56	-1.86	-1.39	0.94	9.99	-1.40	-1.87
7	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
8	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
9	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
10	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.94	10.01	-1.39	-1.86
11	-0.56	-0.51	0.51	0.56	-1.86	-1.39	0.92	9.96	-1.43	-1.90
12	-0.57	-0.52	0.50	0.55	-1.90	-1.43	0.98	10.15	-1.27	-1.73
13	-0.53	-0.48	0.54	0.59	-1.73	-1.29	0.76	9.43	-1.87	-2.37
14	-0.68	-0.63		0.44	-2.37	-1.80	1.74	12.11		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
2	RL	0.63	2.06	0.31	MS	1.74	3.67	0.48	RL	0.21	0.30	2.67
3	LL	-0.54	2.06	0.26	LL	-1.87	5.24	0.36	LL	0.20	0.07	2.67
4	RL	0.52	2.06	0.25	RL	-1.43	5.24	0.27	RL	0.14	0.14	2.67
5	LL	-0.51	2.06	0.25	LL	-1.43	5.24	0.27	LL	0.14	0.12	2.67
6	RL	0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
7	LL	-0.51	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.12	2.67
8	LL	-0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
9	RL	0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
10	LL	-0.51	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.12	2.67
11	RL	0.51	2.06	0.25	RL	-1.43	5.24	0.27	RL	0.14	0.12	2.67
12	LL	-0.52	2.06	0.25	LL	-1.43	5.24	0.27	LL	0.14	0.14	2.67
13	RL	0.54	2.06	0.26	RL	-1.87	5.24	0.36	RL	0.20	0.07	2.67
14	LL	-0.63	2.06	0.31	MS	1.74	3.67	0.48	LL	0.21	0.30	2.67

JAMB/HEADER LAYOUT:

Bay Id	Member Id	Member Size	Member Length	Member Weight
4	Jamb-L	9C16	16.83	53.7
4	Jamb-R	9C16	16.83	53.7
4	Header	9C16	14.00	44.6
7	Jamb-L	9C16	16.83	53.7
7	Jamb-R	9C16	16.83	53.7
7	Header	9C16	14.00	44.6
10	Jamb-L	9C16	16.83	53.7
10	Jamb-R	9C16	16.83	53.7
10	Header	9C16	14.00	44.6
13	Jamb-L	9C16	16.83	53.7
13	Jamb-R	9C16	16.83	53.7
13	Header	9C16	14.00	44.6

STRENGTH/DEFLECTION:

Bay	Member	Ld	Shear(k)			Moment(f-k)			Mom+	Deflect(in)	
Id	Id	Id	Calc	Allow	UC	Calc	Allow	UC	Shear	Calc	Allow
4	Jamb-L	WP	-0.23	2.06	0.11	0.47	4.80	0.10	0.02	0.02	2.24
		WS	0.25	2.06	0.12	-0.51	5.27	0.10	0.02	-0.02	2.24
	Jamb-R	WP	-0.37	2.06	0.18	-0.68	5.27	0.13	0.02	-0.13	2.24
		WS	0.40	2.06	0.20	0.74	4.80	0.15	0.03	0.14	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	4.37	0.03	0.00	0.01	1.87
7	Jamb-L	WP	-0.23	2.06	0.11	0.47	4.80	0.10	0.02	0.02	2.24
		WS	0.25	2.06	0.12	-0.51	5.27	0.10	0.02	-0.02	2.24
	Jamb-R	WP	-0.37	2.06	0.18	-0.68	5.27	0.13	0.02	-0.13	2.24
		WS	0.40	2.06	0.20	0.74	4.80	0.15	0.03	0.14	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	4.37	0.03	0.00	0.01	1.87
10	Jamb-L	WP	-0.37	2.06	0.18	-0.68	5.27	0.13	0.02	-0.13	2.24
		WS	0.40	2.06	0.20	0.74	4.80	0.15	0.03	0.14	2.24
	Jamb-R	WP	-0.23	2.06	0.11	0.47	4.80	0.10	0.02	0.02	2.24
		WS	0.25	2.06	0.12	-0.51	5.27	0.10	0.02	-0.02	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	4.37	0.03	0.00	0.01	1.87
13	Jamb-L	WP	-0.37	2.06	0.18	-0.71	5.27	0.14	0.03	-0.14	2.24
		WS	0.41	2.06	0.20	0.78	4.80	0.16	0.03	0.15	2.24
	Jamb-R	WP	0.23	2.06	0.11	0.67	4.80	0.14	0.03	0.04	2.24
		WS	-0.25	2.06	0.12	-0.73	5.27	0.14	0.03	-0.04	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	4.37	0.03	0.00	0.01	1.87

PANEL DATA:

Bay	Part	Type	Gage	Yield
1	26 A	A	26.00	80.0

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Allow	Support UC	Midspan Calc	Midspan Allow	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC

W28886 Weight Summary 2/01/06 10:06am

Girts	=	3133.83
Frame Openings	=	607.81
		3741.63

W28886 Sidewall Design Warning Report 2/01/06 10:06am

.. No Warnings

```
*=============================================================================
*W28886                  Sidewall Design Input                  2/ 1/06  10:06am
*=============================================================================


*(1)JOBID:
    'W28886'

*(2)PROGRAM OPTIONS:
*Sidewall  Run     Run     Lap
*   Id     Girt    Panel Stiff
   'B'      'Y'    'Y'    0.50

*(3)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code   Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(4)DESIGN CONSTANTS:
*                                                  Wind
* ---Steel_Yield(ksi  )--   Stress_Ratio  Strength
* C_Sec  W_Sec R_Sec Panel  Girt    Panel   Factor
   55.0  50.0  36.0  80.0   1.03    1.03   1.0000

*(5)DEFLECTION LIMITS:
*
* ---Girt---  --Panel---  Part
* Wall Facia  Wall Facia  Wall
   90.    0.   90.    0.   90.

*(6)REPORTS:
*   Input  Wall  Door  Wall
*   Echo   Girt  Jamb  Panel
    'I'    'Y'   'Y'   'Y'

*(7)BUILDING TYPE:
* Build    L_Expand_EW  R_Expand_EW
*  Type    Use  Offset  Use  Offset
  'FF-'    'Y '  4.000  'N '  0.000

*(8)SURFACE SHAPE:
*  No.     X_Coord  Y_Coord  Offset
*  Surf      (ft)     (ft)    (in)
    3       0.0000  24.0000   9.000
           70.0000  26.9167   8.000
           70.0000   0.0000   9.000


*(9)SIDEWALL BAY SPACING:
* Sets_Of   Bay   No.
*  Bays    Width  Bays
     1   20.0000   14


*(10)FRAMED OPENINGS:
```

```
*  No.  Bay   Open    Open     Open   Open   Sill   Base    Set   Member Remove
* Open  Id   Width   Height   Offset  Type  Height  Elev   Depth  Select Panel
    0

*(11)PARTIAL WALLS:
* Set_Of  Base  Full   --Bay_Id--    Wall
*  Bays   Type  Load   Start  End    Height
     1    'A '   'N'     1    14     4.0000


*(12)GIRT DESIGN:
* Girt  OS_Flg  IS_Flg   Set      Set     Max     Max_Unbr
* Type   Brace   Brace  Depth     Lap    Space    Length
  'ZB'    'C'     'Y'   9.000  0.0000  7.3333  13.0000

*(13)GIRT LOCATION:
* Set   No.   Girt
* Loc  Girt   Location
  'P'    4    7.3333  12.0833  16.8333  21.5000

*(14)SPECIAL GIRT:
* Sets_Of  --Bay_Id--   Girt  Girt   Girt
*  Girts   Start  End  Height Type  Rotate
    0

*(15)WALL PANELS/GUTTERS:
* Wall      -----Gutter-----   Insulation
* Panel     Use  Type  Width   Use  Thick
 '26  A   ' '-'  'N'   0.000   'N'  0.000

*(16)FACIA/PARAPET:
*
*                Location                          Edge_Extend
* No.   Ext Facia  Bay  Bay                       Left    Right    Ext
* Ext   Id  Type  Start End   Elev  Height        (ft)     (ft)   Mount
   0

*(17)FACIA/PARAPET GIRTS:
*
*Ext ----Top----  --Interior-  ---Gutter--  ---Back_Panel---  Angle
*Id  Type Rotate  Type Rotate  Type Rotate    Part   Rotate  Spacing

*(18)BASIC LOADS:
*                            -----Edge_Strip_Ratio-----
*  Basic   Wind_Load_Ratio   Zone                  Col/
*  Wind    Deflect  Factor   Width   Girt  Panel   Jamb
    12.3    1.00     1.00    7.000   1.00   1.00   1.00

*(19)WIND PRESSURE/SUCTION:
*     Wind      Wind
*    Pressure  Suction
     10.8      -11.9     .. Girt/Header
     13.3      -14.4     .. Panel
     10.8      -11.8     .. Jamb
     22.2      -13.6     .. Parapet Girt

*(20)GIRT LAPS:
```

```
*
*      Data  ------Set_1-------  ------Set_2-------  ------Set_3-------
* Opt  Sets  Left    Right Quan  Left    Right Quan  Left    Right Quan
  '-'   0

*(21)GIRT STRAPS:
*
*     Data  ---Set_1---  ---Set_2---  ---Set_3---  ---Set_4---
*Opt  Sets  Strap  Quan  Strap  Quan  Strap  Quan  Strap  Quan
 '-'   0

* Code file used was EW_IBC.03
```


STRUCTURAL CODE:
- Design Basis : WS
- Hot Rolled Steel : AISC89
- Cold Formed Steel : AISI96

BUILDING CODE:
- Wind Code : IBC
- Year : 03
- Seismic Zone : C

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

GIRT: LEVEL # 1 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
1	9Z16	20.00		0.88	7.3333	1	65.9
2	9Z16	20.00	0.88	0.88	7.3333	1	68.7
3	9Z16	20.00	0.88	0.88	7.3333	1	68.7
4	9Z16	20.00	0.88	0.88	7.3333	1	68.7
5	9Z16	20.00	0.88	0.88	7.3333	1	68.7
6	9Z16	20.00	0.88	0.88	7.3333	1	68.7
7	9Z16	20.00	0.88	0.88	7.3333	1	68.7
8	9Z16	20.00	0.88	0.88	7.3333	1	68.7

9	9Z16	20.00	0.88	0.88	7.3333	1	68.7
10	9Z16	20.00	0.88	0.88	7.3333	1	68.7
11	9Z16	20.00	0.88	0.88	7.3333	1	68.7
12	9Z16	20.00	0.88	0.88	7.3333	1	68.7
13	9Z16	20.00	0.88	0.88	7.3333	1	68.7
14	9Z16	19.67	0.88		7.3333	1	64.9
							955.4

WIND PRESSURE :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
1	0.34		-0.49	-0.53	0.00		-1.36	7.89	1.40	1.84
2	0.46	0.42	-0.37	-0.41	1.84	1.46	-0.59	10.57	1.01	1.35
3	0.43	0.39	-0.40	-0.44	1.35	0.99	-0.77	9.85	1.11	1.48
4	0.44	0.40	-0.40	-0.43	1.48	1.12	-0.72	10.04	1.08	1.45
5	0.44	0.40	-0.40	-0.44	1.45	1.08	-0.73	9.99	1.09	1.46
6	0.44	0.40	-0.40	-0.44	1.46	1.09	-0.73	10.00	1.09	1.45
7	0.44	0.40	-0.40	-0.44	1.45	1.09	-0.73	10.00	1.09	1.46
8	0.44	0.40	-0.40	-0.44	1.46	1.09	-0.73	10.00	1.09	1.45
9	0.44	0.40	-0.40	-0.44	1.45	1.09	-0.73	10.00	1.09	1.46
10	0.44	0.40	-0.40	-0.44	1.46	1.09	-0.73	10.01	1.08	1.45
11	0.43	0.40	-0.40	-0.44	1.45	1.08	-0.72	9.96	1.11	1.48
12	0.44	0.40	-0.39	-0.43	1.48	1.11	-0.76	10.14	1.00	1.36
13	0.41	0.38	-0.42	-0.46	1.36	1.02	-0.61	9.49	1.42	1.80
14	0.52	0.48		-0.34	1.80	1.36	-1.30	11.93		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RL	-0.49	2.06	0.24	RL	1.40	5.24	0.27	RL	0.13	-0.24	2.67
2	LL	0.42	2.06	0.21	LL	1.46	5.24	0.28	LL	0.12	-0.06	2.67
3	RL	-0.40	2.06	0.20	RL	1.11	5.24	0.21	RL	0.08	-0.11	2.67
4	LL	0.40	2.06	0.19	LL	1.12	5.24	0.21	LL	0.08	-0.09	2.67
5	RL	-0.40	2.06	0.19	RL	1.09	5.24	0.21	RL	0.08	-0.10	2.67
6	LL	0.40	2.06	0.19	LL	1.09	5.24	0.21	LL	0.08	-0.10	2.67
7	RL	-0.40	2.06	0.19	RL	1.09	5.24	0.21	RL	0.08	-0.10	2.67
8	LL	0.40	2.06	0.19	LL	1.09	5.24	0.21	LL	0.08	-0.10	2.67
9	RL	-0.40	2.06	0.19	RL	1.09	5.24	0.21	RL	0.08	-0.10	2.67
10	LL	0.40	2.06	0.19	LL	1.09	5.24	0.21	LL	0.08	-0.10	2.67
11	RL	-0.40	2.06	0.19	RL	1.11	5.24	0.21	RL	0.08	-0.09	2.67
12	LL	0.40	2.06	0.20	LL	1.11	5.24	0.21	LL	0.08	-0.10	2.67
13	RL	-0.42	2.06	0.20	RL	1.42	5.24	0.27	RL	0.11	-0.06	2.67
14	LL	0.48	2.06	0.23	LL	1.36	5.24	0.26	LL	0.12	-0.22	2.62

WIND SUCTION :

GIRT ANALYSIS:

Bay Id	Shear(k) Left Sup	Shear(k) Left Lap	Shear(k) Right Lap	Shear(k) Right Sup	Moment(f-k) Left Sup	Moment(f-k) Left Lap	Moment(f-k) Mid-Span Mom	Moment(f-k) Mid-Span Loc	Moment(f-k) Right Lap	Moment(f-k) Right Sup
1	-0.38		0.54	0.58	0.00		1.50	7.89	-1.54	-2.03
2	-0.51	-0.47	0.41	0.45	-2.03	-1.61	0.65	10.57	-1.11	-1.49
3	-0.47	-0.43	0.45	0.49	-1.49	-1.09	0.84	9.85	-1.23	-1.63
4	-0.48	-0.44	0.44	0.48	-1.63	-1.23	0.79	10.04	-1.19	-1.59
5	-0.48	-0.44	0.44	0.48	-1.59	-1.19	0.80	9.99	-1.20	-1.61
6	-0.48	-0.44	0.44	0.48	-1.61	-1.20	0.80	10.00	-1.20	-1.60
7	-0.48	-0.44	0.44	0.48	-1.60	-1.20	0.80	10.00	-1.20	-1.60
8	-0.48	-0.44	0.44	0.48	-1.60	-1.20	0.80	10.00	-1.20	-1.60
9	-0.48	-0.44	0.44	0.48	-1.60	-1.20	0.80	10.00	-1.20	-1.61
10	-0.48	-0.44	0.44	0.48	-1.61	-1.20	0.80	10.01	-1.19	-1.60
11	-0.48	-0.44	0.44	0.48	-1.60	-1.19	0.79	9.96	-1.23	-1.63
12	-0.49	-0.45	0.43	0.47	-1.63	-1.22	0.84	10.14	-1.10	-1.50
13	-0.46	-0.41	0.46	0.51	-1.50	-1.12	0.67	9.49	-1.56	-1.99
14	-0.57	-0.53		0.37	-1.99	-1.50	1.44	11.93		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Shear(k) Calc	Shear(k) Allow	Shear(k) UC	Moment(f-k) Loc	Moment(f-k) Calc	Moment(f-k) Allow	Moment(f-k) UC	Mom+Shr Loc	Mom+Shr UC	Deflection(in) Calc	Deflection(in) Allow
1	RL	0.54	2.06	0.26	MS	1.50	3.67	0.41	RL	0.16	0.26	2.67
2	LL	-0.47	2.06	0.23	LL	-1.61	5.24	0.31	LL	0.15	0.06	2.67
3	RL	0.45	2.06	0.22	RL	-1.23	5.24	0.23	RL	0.10	0.12	2.67
4	LL	-0.44	2.06	0.21	LL	-1.23	5.24	0.23	LL	0.10	0.10	2.67
5	RL	0.44	2.06	0.21	RL	-1.20	5.24	0.23	RL	0.10	0.11	2.67
6	LL	-0.44	2.06	0.21	LL	-1.20	5.24	0.23	LL	0.10	0.11	2.67
7	RL	0.44	2.06	0.21	RL	-1.20	5.24	0.23	RL	0.10	0.11	2.67
8	LL	-0.44	2.06	0.21	LL	-1.20	5.24	0.23	LL	0.10	0.11	2.67
9	RL	0.44	2.06	0.21	RL	-1.20	5.24	0.23	RL	0.10	0.11	2.67
10	LL	-0.44	2.06	0.21	LL	-1.20	5.24	0.23	LL	0.10	0.11	2.67
11	RL	0.44	2.06	0.21	RL	-1.23	5.24	0.23	RL	0.10	0.10	2.67
12	LL	-0.45	2.06	0.22	LL	-1.22	5.24	0.23	LL	0.10	0.12	2.67
13	RL	0.46	2.06	0.22	RL	-1.56	5.24	0.30	RL	0.14	0.07	2.67
14	LL	-0.53	2.06	0.26	MS	1.44	3.67	0.39	LL	0.15	0.24	2.62

GIRT: LEVEL # 2 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
1	9Z16	20.00		0.88	12.0833	1	65.9
2	9Z16	20.00	0.88	0.88	12.0833	1	68.7
3	9Z16	20.00	0.88	0.88	12.0833	1	68.7
4	9Z16	20.00	0.88	0.88	12.0833	1	68.7
5	9Z16	20.00	0.88	0.88	12.0833	1	68.7
6	9Z16	20.00	0.88	0.88	12.0833	1	68.7
7	9Z16	20.00	0.88	0.88	12.0833	1	68.7
8	9Z16	20.00	0.88	0.88	12.0833	1	68.7
9	9Z16	20.00	0.88	0.88	12.0833	1	68.7
10	9Z16	20.00	0.88	0.88	12.0833	1	68.7
11	9Z16	20.00	0.88	0.88	12.0833	1	68.7
12	9Z16	20.00	0.88	0.88	12.0833	1	68.7
13	9Z16	20.00	0.88	0.88	12.0833	1	68.7
14	9Z16	19.67	0.88		12.0833	1	64.9
							955.4

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	0.40		-0.58	-0.62	0.00		-1.60	7.89	1.64	2.17
2	0.54	0.50	-0.44	-0.48	2.17	1.71	-0.70	10.57	1.18	1.59
3	0.51	0.46	-0.48	-0.52	1.59	1.16	-0.90	9.85	1.31	1.74
4	0.52	0.47	-0.47	-0.51	1.74	1.31	-0.84	10.04	1.27	1.70
5	0.51	0.47	-0.47	-0.51	1.70	1.27	-0.86	9.99	1.28	1.71
6	0.51	0.47	-0.47	-0.51	1.71	1.28	-0.85	10.00	1.28	1.71
7	0.51	0.47	-0.47	-0.51	1.71	1.28	-0.86	10.00	1.28	1.71
8	0.51	0.47	-0.47	-0.51	1.71	1.28	-0.86	10.00	1.28	1.71
9	0.51	0.47	-0.47	-0.51	1.71	1.28	-0.85	10.00	1.28	1.71
10	0.51	0.47	-0.47	-0.51	1.71	1.28	-0.86	10.01	1.27	1.70
11	0.51	0.47	-0.47	-0.51	1.70	1.27	-0.84	9.96	1.31	1.74
12	0.52	0.48	-0.46	-0.51	1.74	1.30	-0.90	10.14	1.18	1.60
13	0.49	0.44	-0.49	-0.54	1.60	1.19	-0.71	9.49	1.67	2.12
14	0.61	0.57		-0.40	2.12	1.60	-1.53	11.93		0.00

STRENGTH/DEFLECTION:

Span Id	Shear(k) Loc	Calc	Allow	UC	Moment(f-k) Loc	Calc	Allow	UC	Mom+Shr Loc	UC	Deflection(in) Calc	Allow
1	RL	-0.58	2.06	0.28	RL	1.64	5.24	0.31	RL	0.18	-0.28	2.67
2	LL	0.50	2.06	0.24	LL	1.71	5.24	0.33	LL	0.17	-0.07	2.67
3	RL	-0.48	2.06	0.23	RL	1.31	5.24	0.25	RL	0.12	-0.12	2.67

4	LL	0.47	2.06	0.23	LL	1.31	5.24	0.25	LL	0.11	-0.11	2.67
5	RL	-0.47	2.06	0.23	RL	1.28	5.24	0.24	RL	0.11	-0.11	2.67
6	LL	0.47	2.06	0.23	LL	1.28	5.24	0.24	LL	0.11	-0.11	2.67
7	RL	-0.47	2.06	0.23	RL	1.28	5.24	0.24	RL	0.11	-0.11	2.67
8	LL	0.47	2.06	0.23	LL	1.28	5.24	0.24	LL	0.11	-0.11	2.67
9	RL	-0.47	2.06	0.23	RL	1.28	5.24	0.24	RL	0.11	-0.11	2.67
10	LL	0.47	2.06	0.23	LL	1.28	5.24	0.24	LL	0.11	-0.11	2.67
11	RL	-0.47	2.06	0.23	RL	1.31	5.24	0.25	RL	0.11	-0.11	2.67
12	LL	0.48	2.06	0.23	LL	1.30	5.24	0.25	LL	0.12	-0.12	2.67
13	RL	-0.49	2.06	0.24	RL	1.67	5.24	0.32	RL	0.16	-0.07	2.67
14	LL	0.57	2.06	0.28	LL	1.60	5.24	0.31	LL	0.17	-0.26	2.62

WIND SUCTION :

GIRT ANALYSIS:

	Shear(k)				Moment(f-k)					
Bay Id	Left Sup	Left Lap	Right Lap	Right Sup	Left Sup	Left Lap	Mid-Span Mom	Mid-Span Loc	Right Lap	Right Sup
1	-0.45		0.64	0.68	0.00		1.76	7.89	-1.81	-2.39
2	-0.60	-0.55	0.48	0.53	-2.39	-1.89	0.77	10.57	-1.30	-1.75
3	-0.56	-0.51	0.52	0.57	-1.75	-1.28	0.99	9.85	-1.44	-1.92
4	-0.57	-0.52	0.51	0.56	-1.92	-1.45	0.93	10.04	-1.40	-1.87
5	-0.56	-0.52	0.52	0.57	-1.87	-1.40	0.95	9.99	-1.41	-1.89
6	-0.57	-0.52	0.52	0.57	-1.89	-1.41	0.94	10.00	-1.41	-1.88
7	-0.57	-0.52	0.52	0.57	-1.88	-1.41	0.94	10.00	-1.41	-1.88
8	-0.57	-0.52	0.52	0.57	-1.88	-1.41	0.94	10.00	-1.41	-1.88
9	-0.57	-0.52	0.52	0.57	-1.88	-1.41	0.94	10.00	-1.41	-1.89
10	-0.57	-0.52	0.52	0.56	-1.89	-1.41	0.95	10.01	-1.40	-1.88
11	-0.56	-0.51	0.52	0.57	-1.88	-1.40	0.93	9.96	-1.44	-1.92
12	-0.57	-0.52	0.51	0.56	-1.92	-1.44	0.99	10.14	-1.30	-1.76
13	-0.54	-0.49	0.54	0.59	-1.76	-1.32	0.78	9.49	-1.84	-2.34
14	-0.67	-0.63		0.44	-2.34	-1.77	1.69	11.93		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RL	0.64	2.06	0.31	MS	1.76	3.67	0.48	RL	0.21	0.31	2.67
2	LL	-0.55	2.06	0.27	LL	-1.89	5.24	0.36	LL	0.20	0.08	2.67
3	RL	0.52	2.06	0.25	RL	-1.44	5.24	0.27	RL	0.14	0.14	2.67
4	LL	-0.52	2.06	0.25	LL	-1.45	5.24	0.28	LL	0.14	0.12	2.67
5	RL	0.52	2.06	0.25	RL	-1.41	5.24	0.27	RL	0.14	0.13	2.67
6	LL	-0.52	2.06	0.25	LL	-1.41	5.24	0.27	LL	0.14	0.12	2.67
7	RL	0.52	2.06	0.25	RL	-1.41	5.24	0.27	RL	0.14	0.12	2.67
8	LL	-0.52	2.06	0.25	LL	-1.41	5.24	0.27	LL	0.14	0.12	2.67
9	RL	0.52	2.06	0.25	RL	-1.41	5.24	0.27	RL	0.14	0.12	2.67
10	LL	-0.52	2.06	0.25	LL	-1.41	5.24	0.27	LL	0.14	0.12	2.67
11	RL	0.52	2.06	0.25	RL	-1.44	5.24	0.28	RL	0.14	0.12	2.67
12	LL	-0.52	2.06	0.25	LL	-1.44	5.24	0.27	LL	0.14	0.14	2.67
13	RL	0.54	2.06	0.26	RL	-1.84	5.24	0.35	RL	0.19	0.08	2.67

14	LL	-0.63	2.06	0.30	MS	1.69	3.67	0.46	LL	0.21		0.28	2.62

GIRT: LEVEL # 3 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
1	9Z16	20.00		0.88	16.8333	1	65.9
2	9Z16	20.00	0.88	0.88	16.8333	1	68.7
3	9Z16	20.00	0.88	0.88	16.8333	1	68.7
4	9Z16	20.00	0.88	0.88	16.8333	1	68.7
5	9Z16	20.00	0.88	0.88	16.8333	1	68.7
6	9Z16	20.00	0.88	0.88	16.8333	1	68.7
7	9Z16	20.00	0.88	0.88	16.8333	1	68.7
8	9Z16	20.00	0.88	0.88	16.8333	1	68.7
9	9Z16	20.00	0.88	0.88	16.8333	1	68.7
10	9Z16	20.00	0.88	0.88	16.8333	1	68.7
11	9Z16	20.00	0.88	0.88	16.8333	1	68.7
12	9Z16	20.00	0.88	0.88	16.8333	1	68.7
13	9Z16	20.00	0.88	0.88	16.8333	1	68.7
14	9Z16	19.67	0.88		16.8333	1	64.9
							955.4

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	0.40		-0.57	-0.62	0.00		-1.58	7.89	1.63	2.15
2	0.54	0.49	-0.44	-0.48	2.15	1.70	-0.69	10.57	1.17	1.57
3	0.50	0.46	-0.47	-0.52	1.57	1.15	-0.89	9.85	1.30	1.73
4	0.51	0.47	-0.46	-0.51	1.73	1.30	-0.84	10.04	1.26	1.69
5	0.51	0.46	-0.46	-0.51	1.69	1.26	-0.85	9.99	1.27	1.70
6	0.51	0.46	-0.46	-0.51	1.70	1.27	-0.85	10.00	1.27	1.69
7	0.51	0.46	-0.46	-0.51	1.69	1.27	-0.85	10.00	1.27	1.70
8	0.51	0.46	-0.46	-0.51	1.70	1.27	-0.85	10.00	1.27	1.69
9	0.51	0.46	-0.46	-0.51	1.69	1.27	-0.85	10.00	1.27	1.70
10	0.51	0.46	-0.46	-0.51	1.70	1.27	-0.85	10.01	1.26	1.69
11	0.51	0.46	-0.47	-0.51	1.69	1.26	-0.84	9.96	1.30	1.72

12	0.52	0.47	-0.46	-0.50	1.72	1.29	-0.89	10.14	1.17	1.59
13	0.48	0.44	-0.49	-0.53	1.59	1.18	-0.71	9.49	1.65	2.10
14	0.61	0.56		-0.39	2.10	1.59	-1.52	11.93		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RL	-0.57	2.06	0.28	RL	1.63	5.24	0.31	RL	0.17	-0.28	2.67
2	LL	0.49	2.06	0.24	LL	1.70	5.24	0.32	LL	0.16	-0.07	2.67
3	RL	-0.47	2.06	0.23	RL	1.30	5.24	0.25	RL	0.11	-0.12	2.67
4	LL	0.47	2.06	0.23	LL	1.30	5.24	0.25	LL	0.11	-0.11	2.67
5	RL	-0.46	2.06	0.23	RL	1.27	5.24	0.24	RL	0.11	-0.11	2.67
6	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67
7	RL	-0.46	2.06	0.23	RL	1.27	5.24	0.24	RL	0.11	-0.11	2.67
8	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67
9	RL	-0.46	2.06	0.23	RL	1.27	5.24	0.24	RL	0.11	-0.11	2.67
10	LL	0.46	2.06	0.23	LL	1.27	5.24	0.24	LL	0.11	-0.11	2.67
11	RL	-0.47	2.06	0.23	RL	1.30	5.24	0.25	RL	0.11	-0.11	2.67
12	LL	0.47	2.06	0.23	LL	1.29	5.24	0.25	LL	0.11	-0.12	2.67
13	RL	-0.49	2.06	0.24	RL	1.65	5.24	0.32	RL	0.16	-0.07	2.67
14	LL	0.56	2.06	0.27	LL	1.59	5.24	0.30	LL	0.17	-0.25	2.62

WIND SUCTION :

GIRT ANALYSIS:

Bay	---------Shear(k)--------				----------Moment(f-k)----------					
	Left	Left	Right	Right	Left	Left	Mid-Span		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	-0.44		0.63	0.68	0.00		1.74	7.89	-1.80	-2.37
2	-0.59	-0.54	0.48	0.53	-2.37	-1.87	0.76	10.57	-1.29	-1.73
3	-0.55	-0.50	0.52	0.57	-1.73	-1.27	0.98	9.85	-1.43	-1.90
4	-0.56	-0.51	0.51	0.56	-1.90	-1.43	0.92	10.04	-1.39	-1.86
5	-0.56	-0.51	0.51	0.56	-1.86	-1.39	0.94	9.99	-1.40	-1.87
6	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
7	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
8	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
9	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.93	10.00	-1.40	-1.87
10	-0.56	-0.51	0.51	0.56	-1.87	-1.40	0.94	10.01	-1.39	-1.86
11	-0.56	-0.51	0.51	0.56	-1.86	-1.39	0.92	9.96	-1.43	-1.90
12	-0.57	-0.52	0.50	0.55	-1.90	-1.42	0.98	10.14	-1.29	-1.75
13	-0.53	-0.48	0.54	0.59	-1.75	-1.30	0.78	9.49	-1.82	-2.31
14	-0.67	-0.62		0.43	-2.31	-1.75	1.68	11.93		0.00

STRENGTH/DEFLECTION:

Span	------Shear(k)------				-----Moment(f-k)----				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow

1	RL	0.63	2.06	0.31	MS	1.74	3.67	0.48	RL	0.21	0.30	2.67
2	LL	-0.54	2.06	0.26	LL	-1.87	5.24	0.36	LL	0.20	0.07	2.67
3	RL	0.52	2.06	0.25	RL	-1.43	5.24	0.27	RL	0.14	0.14	2.67
4	LL	-0.51	2.06	0.25	LL	-1.43	5.24	0.27	LL	0.14	0.12	2.67
5	RL	0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
6	LL	-0.51	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.12	2.67
7	RL	0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
8	LL	-0.51	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.12	2.67
9	RL	0.51	2.06	0.25	RL	-1.40	5.24	0.27	RL	0.13	0.12	2.67
10	LL	-0.51	2.06	0.25	LL	-1.40	5.24	0.27	LL	0.13	0.12	2.67
11	RL	0.51	2.06	0.25	RL	-1.43	5.24	0.27	RL	0.14	0.12	2.67
12	LL	-0.52	2.06	0.25	LL	-1.42	5.24	0.27	LL	0.14	0.13	2.67
13	RL	0.54	2.06	0.26	RL	-1.82	5.24	0.35	RL	0.19	0.08	2.67
14	LL	-0.62	2.06	0.30	MS	1.68	3.67	0.46	LL	0.20	0.28	2.62

GIRT: LEVEL # 4 ; SPAN # 1

GIRT LAYOUT:

Bay Id	Girt Size	Bay Width	---Lap(ft)-- Left	Right	Girt Location	No. Brace	Girt Weight
1	9Z16	20.00		0.88	21.5000	1	65.9
2	9Z16	20.00	0.88	0.88	21.5000	1	68.7
3	9Z16	20.00	0.88	0.88	21.5000	1	68.7
4	9Z16	20.00	0.88	0.88	21.5000	1	68.7
5	9Z16	20.00	0.88	0.88	21.5000	1	68.7
6	9Z16	20.00	0.88	0.88	21.5000	1	68.7
7	9Z16	20.00	0.88	0.88	21.5000	1	68.7
8	9Z16	20.00	0.88	0.88	21.5000	1	68.7
9	9Z16	20.00	0.88	0.88	21.5000	1	68.7
10	9Z16	20.00	0.88	0.88	21.5000	1	68.7
11	9Z16	20.00	0.88	0.88	21.5000	1	68.7
12	9Z16	20.00	0.88	0.88	21.5000	1	68.7
13	9Z16	20.00	0.88	0.88	21.5000	1	68.7
14	9Z16	19.67	0.88		21.5000	1	64.9
							955.4

WIND PRESSURE :

GIRT ANALYSIS:

	---------Shear(k)--------				----------Moment(f-k)----------				
Bay	Left	Left	Right	Right	Left	Left	Mid-Span	Right	Right

Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	0.28		-0.39	-0.43	0.00		-1.09	7.89	1.12	1.48
2	0.37	0.34	-0.30	-0.33	1.48	1.17	-0.48	10.57	0.81	1.09
3	0.35	0.31	-0.33	-0.36	1.09	0.80	-0.62	9.85	0.89	1.19
4	0.35	0.32	-0.32	-0.35	1.19	0.90	-0.58	10.04	0.87	1.16
5	0.35	0.32	-0.32	-0.35	1.16	0.87	-0.59	9.99	0.88	1.17
6	0.35	0.32	-0.32	-0.35	1.17	0.88	-0.58	10.00	0.88	1.17
7	0.35	0.32	-0.32	-0.35	1.17	0.88	-0.59	10.00	0.88	1.17
8	0.35	0.32	-0.32	-0.35	1.17	0.88	-0.59	10.00	0.88	1.17
9	0.35	0.32	-0.32	-0.35	1.17	0.88	-0.58	10.00	0.88	1.17
10	0.35	0.32	-0.32	-0.35	1.17	0.88	-0.59	10.01	0.87	1.16
11	0.35	0.32	-0.32	-0.35	1.16	0.87	-0.58	9.96	0.90	1.19
12	0.36	0.33	-0.32	-0.35	1.19	0.89	-0.61	10.14	0.81	1.09
13	0.33	0.30	-0.34	-0.37	1.09	0.82	-0.49	9.49	1.14	1.45
14	0.42	0.39		-0.27	1.45	1.10	-1.05	11.93		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RL	-0.39	2.06	0.19	RL	1.12	5.24	0.21	RL	0.08	-0.19	2.67
2	LL	0.34	2.06	0.17	LL	1.17	5.24	0.22	LL	0.08	-0.05	2.67
3	RL	-0.33	2.06	0.16	RL	0.89	5.24	0.17	RL	0.05	-0.09	2.67
4	LL	0.32	2.06	0.16	LL	0.90	5.24	0.17	LL	0.05	-0.07	2.67
5	RL	-0.32	2.06	0.16	RL	0.88	5.24	0.17	RL	0.05	-0.08	2.67
6	LL	0.32	2.06	0.16	LL	0.88	5.24	0.17	LL	0.05	-0.08	2.67
7	RL	-0.32	2.06	0.16	RL	0.88	5.24	0.17	RL	0.05	-0.08	2.67
8	LL	0.32	2.06	0.16	LL	0.88	5.24	0.17	LL	0.05	-0.08	2.67
9	RL	-0.32	2.06	0.16	RL	0.88	5.24	0.17	RL	0.05	-0.08	2.67
10	LL	0.32	2.06	0.16	LL	0.88	5.24	0.17	LL	0.05	-0.08	2.67
11	RL	-0.32	2.06	0.16	RL	0.90	5.24	0.17	RL	0.05	-0.08	2.67
12	LL	0.33	2.06	0.16	LL	0.89	5.24	0.17	LL	0.05	-0.08	2.67
13	RL	-0.34	2.06	0.16	RL	1.14	5.24	0.22	RL	0.07	-0.05	2.67
14	LL	0.39	2.06	0.19	LL	1.10	5.24	0.21	LL	0.08	-0.18	2.62

WIND SUCTION :

GIRT ANALYSIS:

Bay	Shear(k)				Moment(f-k)					
	Left	Left	Right	Right	Left	Left	Mid-Span		Right	Right
Id	Sup	Lap	Lap	Sup	Sup	Lap	Mom	Loc	Lap	Sup
1	-0.31		0.43	0.47	0.00		1.20	7.89	-1.24	-1.63
2	-0.41	-0.37	0.33	0.36	-1.63	-1.29	0.52	10.57	-0.89	-1.20
3	-0.38	-0.35	0.36	0.39	-1.20	-0.88	0.68	9.85	-0.99	-1.31
4	-0.39	-0.35	0.35	0.39	-1.31	-0.99	0.64	10.04	-0.96	-1.28
5	-0.39	-0.35	0.35	0.39	-1.28	-0.96	0.65	9.99	-0.97	-1.29
6	-0.39	-0.35	0.35	0.39	-1.29	-0.97	0.64	10.00	-0.97	-1.29
7	-0.39	-0.35	0.35	0.39	-1.29	-0.97	0.64	10.00	-0.97	-1.29
8	-0.39	-0.35	0.35	0.39	-1.29	-0.97	0.64	10.00	-0.97	-1.29

9	-0.39	-0.35	0.35	0.39	-1.29	-0.97	0.64	10.00	-0.97	-1.29
10	-0.39	-0.35	0.35	0.39	-1.29	-0.97	0.65	10.01	-0.96	-1.28
11	-0.39	-0.35	0.35	0.39	-1.28	-0.96	0.64	9.96	-0.99	-1.31
12	-0.39	-0.36	0.35	0.38	-1.31	-0.98	0.68	10.14	-0.89	-1.21
13	-0.37	-0.33	0.37	0.41	-1.21	-0.90	0.54	9.49	-1.26	-1.60
14	-0.46	-0.43		0.30	-1.60	-1.21	1.16	11.93		0.00

STRENGTH/DEFLECTION:

Span	Shear(k)				Moment(f-k)				Mom+Shr		Deflection(in)	
Id	Loc	Calc	Allow	UC	Loc	Calc	Allow	UC	Loc	UC	Calc	Allow
1	RL	0.43	2.06	0.21	MS	1.20	3.67	0.33	RL	0.10	0.21	2.67
2	LL	-0.37	2.06	0.18	LL	-1.29	5.24	0.25	LL	0.09	0.05	2.67
3	RL	0.36	2.06	0.17	RL	-0.99	5.24	0.19	RL	0.07	0.09	2.67
4	LL	-0.35	2.06	0.17	LL	-0.99	5.24	0.19	LL	0.07	0.08	2.67
5	RL	0.35	2.06	0.17	RL	-0.97	5.24	0.18	RL	0.06	0.09	2.67
6	LL	-0.35	2.06	0.17	LL	-0.97	5.24	0.18	LL	0.06	0.08	2.67
7	RL	0.35	2.06	0.17	RL	-0.97	5.24	0.18	RL	0.06	0.08	2.67
8	LL	-0.35	2.06	0.17	LL	-0.97	5.24	0.18	LL	0.06	0.08	2.67
9	RL	0.35	2.06	0.17	RL	-0.97	5.24	0.18	RL	0.06	0.08	2.67
10	LL	-0.35	2.06	0.17	LL	-0.97	5.24	0.18	LL	0.06	0.09	2.67
11	RL	0.35	2.06	0.17	RL	-0.99	5.24	0.19	RL	0.06	0.08	2.67
12	LL	-0.36	2.06	0.17	LL	-0.98	5.24	0.19	LL	0.07	0.09	2.67
13	RL	0.37	2.06	0.18	RL	-1.26	5.24	0.24	RL	0.09	0.06	2.67
14	LL	-0.43	2.06	0.21	MS	1.16	3.67	0.32	LL	0.10	0.19	2.62

PANEL DATA:

Bay	Part	Type	Gage	Yield
1	26 A	A	26.00	80.0

MOMENTS & DEFLECTION:

Span	Span	LD	Moment(ft-lb/ft)						Deflect(in)		
			Support			Midspan					
Id	(ft)	Id	Calc	Allow	UC	Calc	Allow	UC	Calc	Allow	UC
1	3.33	WP	22.2	102.3	0.22	-9.0	104.4	0.09	-0.02	0.44	0.04
		WS	-24.0	104.4	0.23	9.8	102.3	0.10	0.02	0.44	0.04
2	4.75	WP	25.5	102.3	0.25	-13.7	104.4	0.13	-0.06	0.63	0.09
		WS	-27.6	104.4	0.26	14.8	102.3	0.14	0.06	0.63	0.10
3	4.75	WP	25.9	102.3	0.25	-11.8	104.4	0.11	-0.04	0.63	0.07
		WS	-28.0	104.4	0.27	12.8	102.3	0.13	0.05	0.63	0.07
4	4.67	WP	25.9	102.3	0.25	-14.2	104.4	0.14	-0.06	0.62	0.10
		WS	-28.1	104.4	0.27	15.4	102.3	0.15	0.06	0.62	0.10
5	1.83	WP	18.3	102.3	0.18	-0.2	104.4	0.00	0.01	0.24	0.02
		WS	-19.8	104.4	0.19	0.2	102.3	0.00	-0.01	0.24	0.02

W28886 Weight Summary 2/01/06 10:06am

Girts	=	3821.46
Frame Openings	=	0.00
		3821.46

W28886 Sidewall Design Warning Report 2/01/06 10:06am

.. No Warnings

```
*================================================================================
*W28886                    Endwall Design Input                    2/ 1/06   9:28am
*================================================================================


*(1)JOBID:
    'W28886'

*(2)PROGRAM OPTIONS:
* EW     Run     Run  Run    Run     No.    Lap
* Id  Col/Raf Girt Brace Panel  Cycle  Stiff
  'L'    'Y'    'Y'  'N'    'Y'      4    0.50

*(3)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code   Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(4)DESIGN CONSTANTS:                                                    Wind
* ---------------Steel_Yield(ksi  )--------------  ---Stress_Ratio---  Strength
* Web   Flg  C_Sec W_Sec R_Sec  U_Sec   EP  Panel  Col/Raf Girt Panel   Factor
 50.0  50.0   55.0  50.0  36.0   36.0  50.0  80.0    1.03  1.03  1.03   1.0000

*(5)DEFLECTION LIMITS:
* -----Rafter-----          ---Girt---  --Panel---  Part  Wind
* Live  Wind Total  Column  Wall Facia  Wall Facia  Wall  Bent
  180.  180.    0.   180.    90.    0.   90.    0.   90.   60.

*(6)REPORTS:
*   Input  Column  Wall  Door  Wall   Cable
*   Echo   Rafter  Girt  Jamb  Panel  Brace
    'I'     'Y'    'Y'   'Y'    'Y'    'Y'

*(7)BUILDING TYPE:
* Build      Build      Build     Expand_EW
*  Type      Width     Length     Use   Offset
  'FF-'    70.0000   280.0000   'Y :-'   4.00

*(8)SURFACE SHAPE:
*  No.     X_Coord  Y_Coord   Offset
*  Surf      (ft)     (ft)     (in)
     3     0.0000   24.0000   9.000
          70.0000   26.9167   9.000
          70.0000    0.0000   9.000


*(9)BAY SPACING:
*No.Roof   Roof     Frame     Sets_Of   Bay    No.
*  Bay     Bay     Recess      Bays    Width  Bays
   14    20.0000  0.3333        1   17.5000    4


*(10)FRAMED OPENINGS:
*  No.  Bay   Open    Open     Open   Open   Sill   Base    Set   Member Remove
* Open  Id   Width   Height   Offset  Type  Height  Elev   Depth  Select Panel
```

```
    2     2  14.0000 16.0000   2.5000    41   0.0000  0.000  0.000     'CU'    'Y'
          3  14.0000 16.0000   1.0000    41   0.0000  0.000  0.000     'CU'    'Y'


*(11)WIDE OPENING LAYOUT:
*----Open--- Bay_Id  --Clear_Opening--   Wedge      Stub    Column  Total
*No. Id Type St End  Width       Height   Height     Elev     Mount  Weight
 0

*(12)WIDE OPENING AND STRUT FRAMING:
*-Open- -----Door_Jamb----- Stub Head Back_Brace Strut -Header_Beam- Deflection
*No. Id Type FlgWid  FlgThk Type Type Type  Loc  Type  Type Max_Spc  Horz  Vert
 0

*(13)WIDE OPENING HEADER LOCATION:
*-Open-    No.        Column
*No. Id    Location   Location
 0

*(14)PARTIAL WALLS:
* Set_Of  Base  Full   --Bay_Id--    Wall
*  Bays   Type  Load   Start  End   Height
     1    'A '   'N'     1     4    4.0000


*(15)COLUMNS:
* --Left_Corner-- -Right_Corner--  -Int_Facia-- Int_No_Facia     Max_UnBr Base
* Type  Rot Depth  Type  Rot Depth  Type  Depth  Type  Depth Same Length  Elev
*           (in)           (in)          (in)          (in)  Dep   (ft)   (in)
 '-    ' '-'  0.00 '-    ' '-'  0.00 'W   '  0.00 'W   '  0.00 'N'  30.000  48.000

*(16)COLUMN SIZE:
*   Set       No.   Column
*  Member   Column   Size
    'Y'       5     'W08542'
                    'W08542'
                    'W08662'
                    'W08642'
                    'W08542'

*(17)RAFTERS:
* Rafter    Set    Rafter  Flange
* Select   Depth    Same    Brace
  'CDW '   0.000    'Y'     'Y'

*(18)RAFTERS SIZE:
*   Set       No.   Rafter
*  Member   Rafter   Size
    'N'

*(19)RAFTER SPLICES:
*   Surf    No.    Splice    Splice
*    Id   Splice    Loc       Type
      2      0

*(20)GIRT DESIGN:
*Girt Flg_Brace                  Set     Set     Max  Girt_To One_Girt  Max_Unbr
```

```
*Type Out   In  Offset Project  Depth    Lap    Space  Rafter Depth/Bay  Length
 'ZF' 'C'  'Y'   0.000   0.000  9.000  0.0000  7.3333   'Y'      'Y'       13.0000

*(21)GIRT LOCATION:
* Set   No.   Girt
* Loc  Girt   Location
  'Y'    4    7.3333 12.0833 16.8333 21.5000

*(22)SPECIAL GIRT:
* Sets_Of  --Bay_Id--   Girt  Girt   Girt
*  Girts   Start  End  Height Type  Rotate
     0

*(23)ROOF PURLINS:
*Surf   Surf    No.   Peak   Set_Of   Set_Space
* Id    Ext   Purlin  Space  Space   Space  No.
   2   0.000    15    0.833     0

*(24)PANELS/RF_COLUMNS:
*   Wall      Insulation  RF_Interior_Columns
*   Panel     Use  Thick  No.  Locate
  '26  A   '  'N'  0.000   0

*(25)WIND FRAMING SELECTION:
* -----Order_Of_Selection------
* Panel  Diagonal  Wind   Wind
* Shear  Bracing   Bent  Column
   'N'     'Y'      'N'    'N'

*(26)WALL BRACING:
*   Wind   Brace     No._Bay   Specified
*  Shear   Type     Specified  Bays_For_Bracing
    75.0    'CR'        1          1

*(27)WIND BENTS:
* --Member--    No.
* Type  Depth   Bay    Bay_Id
  '-'    0.00     0

*(28)WIND COLUMNS:
* --Member--    No.             Left/
* Type  Depth   Bay    Bay_Id   Right
  '-'    0.00     0

*(29)WALL BRACING ATTACHMENT
* No.    Attach   --Bay_Id--    No.
*Attach    Id     Start  End   Level         Level_Height
    0

*(30)EAVE EXTENSION:
*
*Wall  No.  Ext -Bay_Id--                              -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope    Left    Right  Mount
   2    0
   4    0

*(31)CANOPY:
```

```
*
*Wall  No.  Ext -Bay_Id--                                -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope   Left    Right  Mount
   1    0
   2    0
   4    0

*(32)FACIA/PARAPET  :
*
*Wall No. Ext Fac Bay_Id  ----Attach_Beam---- ---Facia/Parapet--- Edge_Extend
Ext
* Id  Ext Id Type St End Height Width   Slope  Elev  Height Slope  Left Right
Mnt
*            (C,E)        (ft)   (ft)  (?:12 ) (ft)   (ft) (?:12 ) (ft) (ft)
   1   0
   2   0
   4   0

*(33)FACIA/PARAPET GIRTS:
*
*Ext  ----Top----  --Interior-  ---Back_Panel---  Angle
*Id   Type Rotate  Type Rotate  Part      Rotate Spacing

*(34)ADJACENT BUILDING:
*
*Wall  No.  Ext -Bay_Id--                                -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope   Left    Right  Mount
   2    0
   4    0

*(35)LOADS FOR EAVE EXTENSION, CANOPY, FACIA, PARAPET, AND ADJACENT BUILDING:
*
*
*Ext                          Ext_Beam   Facia/Parapet  Facia/Parapet_Girt
*Id  Dead  Collat  Live     Press Suct   Press  Suct      Press  Suct

*(35)BASIC LOADS:
*                                                      -----Edge_Strip_Ratio-----
* Dead   Collat  Live   Snow  Basic  Wind_Load_Ratio  Zone                  Col/
* Load    Load   Load   Load   Wind  Deflect  Factor  Width   Girt  Panel   Jamb
   2.2     5.0   20.0   35.0   12.3   1.00     1.00   7.000   1.00   1.00   1.00

*(36)BASIC LOADS AT EAVE:
*   Seis_Coeff     Seis_Load    Torsion_Forces
*  Frame  Brace   Frame  Brace   Wind  Seismic
  0.0533 0.1493    0.00   0.30    0.00    0.00

*(37)WIND PRESSURE/SUCTION:
*
*   Wind      Wind
*   Press     Suct
     10.8     -11.9    .. Column
     10.8     -11.9    .. Girt/Header
     10.8     -11.8    .. Jamb
     13.3     -14.4    .. Panel
     22.2     -13.6    .. Parapet Girt
```

*(38)WIND COEFFICIENTS:

* Surf Id	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Bracing_Wind Left	Bracing_Wind Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.48	-0.60	0.00	0.00
2	-1.22	-1.22	-0.86	-0.86	-1.22	-1.22	-1.22	0.00
3	0.00	0.00	0.00	0.00	-0.69	0.41	0.00	0.00

*(39)COLUMN & BRACING DESIGN LOADS:

*

*Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Column_Wind Seis	Aux_Load Id	Aux_Load Coef
10	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
	3	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
	8	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
	9	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	10	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

*(40)COLUMN & BRACING DESIGN LOADS: Deflection

*

*Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Column_Wind Seis	Aux_Load Id	Aux_Load Coef
0														

*(41)RAFTER DESIGN LOADS:

*

* No. *Load	Load Id	Dead	Collat	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Seis	Aux_Load Id	Aux_Load Coef
6	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	1.00	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	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00

*(42)RAFTER DESIGN LOADS: Deflection

*

* No. *Load	Load Id	Dead	Collat	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Seis	Aux_Load Id	Aux_Load Coef
0												

*(43)AUXILIARY LOADS:

* No. * Aux	Aux Id	Aux Name	No._Add Combs	Add_Load Id	Add_Load Coef
0					

*(44)ADDITIONAL LOADS:

* No. * Add	Add Surf Id	Basic Load	Load Type	FX W1	FY W2	M Co	X DL1	Y DL2	..Conc ..Unif
0									

```
*(46)GIRT LAPS:
*
*      Data  ------Set_1-------  ------Set_2-------  ------Set_3-------
* Opt  Sets  Left    Right Quan  Left    Right Quan  Left    Right Quan
  '-'   0

*(47)GIRT STRAPS:
*
*     Data  ---Set_1---  ---Set_2---  ---Set_3---  ---Set_4---
*Opt  Sets  Strap  Quan  Strap  Quan  Strap  Quan  Strap  Quan
 '-'   0

* Code file used was EW_IBC.03
```

W28886 Endwall Design Code 2/ 1/06 10:06am

STRUCTURAL CODE:
- Design Basis : WS
- Hot Rolled Steel : AISC89
- Cold Formed Steel : AISI96

BUILDING CODE:
- Wind Code : IBC
- Year : 03
- Seismic Zone : C

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

W28886 Column & Rafter Design 2/ 1/06 10:06am

MEMBER SIZES:

Member Id	Member Locate	Member Size	Web Size Depth	Web Size Thick	Flange Size Width	Flange Size Thick	Member Length	Member Weight
Col-1	0.8							
Col-2	17.5	W08542	7.50	0.112	5.00	0.250	19.8	228.0
Col-3	35.0	W08662	7.25	0.112	6.00	0.375	20.5	374.0
Col-4	52.5	W08642	7.50	0.112	6.00	0.250	21.3	281.0
Col-5	69.3							
						Total=		1355.91

DESIGN ACTIONS/STRESSES:

Mem	Load	Axial(k ,ksi) Design	Axial(k ,ksi) Calc	Axial(k ,ksi) Allow	Shear(k ,ksi) Design	Shear(k ,ksi) Calc	Shear(k ,ksi) Allow	Moment(f-k ,ksi) Design	Moment(f-k ,ksi) Calc	Moment(f-k ,ksi) Allow

Id	Id	Load	Stress	Stress	Load	Stress	Stress	Load	Stress	Stress
Col-2	1	0.23	0.07	21.39	0.00	0.00	16.04	0.00	0.00	30.00
Col-2	2	0.23	0.07	21.39	-1.51	1.80	16.04	7.50	-8.65	30.00
Col-2	3	0.23	0.07	21.39	-1.51	1.80	16.04	7.50	-8.65	30.00
Col-2	4	0.14	0.04	21.39	1.83	2.18	16.04	-9.07	-10.47	30.00
Col-2	5	0.14	0.04	21.39	-2.02	2.40	16.04	10.00	-11.54	30.00
Col-2	6	0.14	0.04	21.39	-2.02	2.40	16.04	10.00	-11.54	30.00
Col-2	7	0.24	0.07	21.39	0.00	0.00	16.04	0.00	0.00	30.00
Col-2	8	0.24	0.07	21.39	0.00	0.00	16.04	0.00	0.00	30.00
Col-2	9	0.15	0.05	21.39	0.00	0.00	16.04	0.00	0.00	30.00
Col-2	10	0.15	0.05	21.39	0.00	0.00	16.04	0.00	0.00	30.00
Col-3	1	0.37	0.07	21.22	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	2	0.37	0.07	21.22	-1.60	1.98	16.60	8.24	-5.71	33.00
Col-3	3	0.37	0.07	21.22	-1.60	1.98	16.60	8.24	-5.71	33.00
Col-3	4	0.22	0.04	21.22	1.94	2.39	16.60	-9.97	-6.91	33.00
Col-3	5	0.22	0.04	21.22	-2.14	2.63	16.60	10.98	-7.62	33.00
Col-3	6	0.22	0.04	21.22	-2.14	2.63	16.60	10.98	-7.62	33.00
Col-3	7	0.40	0.08	21.22	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	8	0.40	0.08	21.22	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	9	0.25	0.05	21.22	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	10	0.25	0.05	21.22	0.00	0.00	16.60	0.00	0.00	33.00
Col-4	1	0.28	0.07	20.66	0.00	0.00	16.04	0.00	0.00	31.01
Col-4	2	0.28	0.07	20.66	-1.63	1.94	16.04	8.64	-8.50	31.01
Col-4	3	0.28	0.07	20.66	-1.63	1.94	16.04	8.64	-8.50	31.01
Col-4	4	0.17	0.04	20.66	1.97	2.34	16.04	-10.46	-10.29	31.01
Col-4	5	0.17	0.04	20.66	-2.17	2.58	16.04	11.52	-11.34	31.01
Col-4	6	0.17	0.04	20.66	-2.17	2.58	16.04	11.52	-11.34	31.01
Col-4	7	0.30	0.08	20.66	0.00	0.00	16.04	0.00	0.00	31.01
Col-4	8	0.30	0.08	20.66	0.00	0.00	16.04	0.00	0.00	31.01
Col-4	9	0.19	0.05	20.66	0.00	0.00	16.04	0.00	0.00	31.01
Col-4	10	0.19	0.05	20.66	0.00	0.00	16.04	0.00	0.00	31.01

STRESS RATIO:

Mem Id	Load Id	Axial	Shear	Moment	Axl+Mom	Shr+Mom	Max_UC
Col-2	1	0.00	0.00	0.00	0.00		0.00
Col-2	2	0.00	0.11	0.29	0.29		0.29
Col-2	3	0.00	0.11	0.29	0.29		0.29
Col-2	4	0.00	0.14	0.35	0.35		0.35
Col-2	5	0.00	0.15	0.38	0.39		0.39
Col-2	6	0.00	0.15	0.38	0.39		0.39
Col-2	7	0.00	0.00	0.00	0.00		0.00
Col-2	8	0.00	0.00	0.00	0.00		0.00
Col-2	9	0.00	0.00	0.00	0.00		0.00
Col-2	10	0.00	0.00	0.00	0.00		0.00
Col-3	1	0.00	0.00	0.00	0.00		0.00
Col-3	2	0.00	0.12	0.17	0.17		0.17
Col-3	3	0.00	0.12	0.17	0.17		0.17
Col-3	4	0.00	0.14	0.21	0.21		0.21
Col-3	5	0.00	0.16	0.23	0.23		0.23
Col-3	6	0.00	0.16	0.23	0.23		0.23
Col-3	7	0.00	0.00	0.00	0.00		0.00
Col-3	8	0.00	0.00	0.00	0.00		0.00

Col-3	9	0.00	0.00	0.00	0.00	0.00
Col-3	10	0.00	0.00	0.00	0.00	0.00
Col-4	1	0.00	0.00	0.00	0.00	0.00
Col-4	2	0.00	0.12	0.27	0.28	0.28
Col-4	3	0.00	0.12	0.27	0.28	0.28
Col-4	4	0.00	0.15	0.33	0.33	0.33
Col-4	5	0.00	0.16	0.37	0.37	0.37
Col-4	6	0.00	0.16	0.37	0.37	0.37
Col-4	7	0.00	0.00	0.00	0.00	0.00
Col-4	8	0.00	0.00	0.00	0.00	0.00
Col-4	9	0.00	0.00	0.00	0.00	0.00
Col-4	10	0.00	0.00	0.00	0.00	0.00

MEMBER DEFLECTIONS/COLUMN REACTIONS:

Mem Id	Load Id	Deflection(in) Calc	Deflection(in) Allow	Reaction(k) Horz(OP)	Reaction(k) Vert	Reaction(k) Horz(IP)
Col-2	1	0.00	1.32	0.00	0.23	0.00
Col-2	2	0.44	1.32	1.51	0.23	0.00
Col-2	3	0.44	1.32	1.51	0.23	0.00
Col-2	4	-0.53	1.32	-1.83	0.14	0.00
Col-2	5	0.59	1.32	2.02	0.14	0.00
Col-2	6	0.59	1.32	2.02	0.14	0.00
Col-2	7	0.00	1.32	0.00	0.24	0.00
Col-2	8	0.00	1.32	0.00	0.24	0.00
Col-2	9	0.00	1.32	0.00	0.15	0.00
Col-2	10	0.00	1.32	0.00	0.15	0.00
Col-3	1	0.00	1.37	0.00	0.37	0.00
Col-3	2	0.31	1.37	1.60	0.37	0.00
Col-3	3	0.31	1.37	1.60	0.37	0.00
Col-3	4	-0.38	1.37	-1.94	0.22	0.00
Col-3	5	0.42	1.37	2.14	0.22	0.00
Col-3	6	0.42	1.37	2.14	0.22	0.00
Col-3	7	0.00	1.37	0.00	0.40	0.00
Col-3	8	0.00	1.37	0.00	0.40	0.00
Col-3	9	0.00	1.37	0.00	0.25	0.00
Col-3	10	0.00	1.37	0.00	0.25	0.00
Col-4	1	0.00	1.42	0.00	0.28	0.00
Col-4	2	0.50	1.42	1.63	0.28	0.00
Col-4	3	0.50	1.42	1.63	0.28	0.00
Col-4	4	-0.60	1.42	-1.97	0.17	0.00
Col-4	5	0.66	1.42	2.17	0.17	0.00
Col-4	6	0.66	1.42	2.17	0.17	0.00
Col-4	7	0.00	1.42	0.00	0.30	0.00
Col-4	8	0.00	1.42	0.00	0.30	0.00
Col-4	9	0.00	1.42	0.00	0.19	0.00
Col-4	10	0.00	1.42	0.00	0.19	0.00

Column_Base	Max_Reactions(k)	--Plate_Size(in)--	-Bolts(A307)-

Id	Depth	Comp	Tens	Shear	Width	Length	Thick	Row	Diam	Gage
Col-2	8.0	0.2	0.0	2.0						
Col-3	8.0	0.4	0.0	2.1						
Col-4	8.0	0.3	0.0	2.2						

GIRT LOCATION:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	7.333	12.083	16.833	21.500
2	4	7.333	12.083	16.833	21.500
3	4	7.333	12.083	16.833	21.500
4	4	7.333	12.083	16.833	21.500

GIRT SPAN:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	16.396	16.396	16.396	16.396
2	4	1.771	1.771	16.792	16.792
3	4	1.771	1.771	16.792	16.792
4	4	16.396	16.396	16.396	16.396

GIRT SIZE:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	9Z16	9Z16	9Z16	9Z16
2	4	9Z16	9Z16	9Z16	9Z16
3	4	9Z16	9Z16	9Z16	9Z16
4	4	9Z16	9Z16	9Z16	9Z16

GIRT INSIDE FLANGE BRACE:

No. Brace/Bay 1	2	3	4
1	1	1	1

GIRT ACTIONS:

Bay Id	Girt Id	Ld Id	--Shear(k)--- Calc	Allow	UC	--Moment(f-k)-- Calc	Allow	UC	---Deflect(in)-- Calc	Allow	UC
1	1	WP	-0.36	2.06	0.17	-1.47	5.24	0.28	-0.22	2.19	0.10
		WS	-0.39	2.06	0.19	1.62	4.29	0.38	0.24	2.19	0.11
1	2	WP	0.42	2.06	0.20	-1.72	5.24	0.33	-0.25	2.19	0.12
		WS	-0.46	2.06	0.22	1.90	4.29	0.44	0.28	2.19	0.13
1	3	WP	0.42	2.06	0.20	-1.71	5.24	0.33	-0.25	2.19	0.12
		WS	-0.46	2.06	0.22	1.88	4.29	0.44	0.28	2.19	0.13

1	4	WP	0.35	2.06	0.17	-1.43	5.24	0.27	-0.21	2.19	0.10
		WS	0.38	2.06	0.19	1.58	4.29	0.37	0.23	2.19	0.11
2	1	WP	0.04	2.06	0.02	-0.02	5.24	0.00	0.00	0.24	0.00
		WS	-0.04	2.06	0.02	0.02	5.24	0.00	0.00	0.24	0.00
2	2	WP	0.05	2.06	0.02	-0.02	5.24	0.00	0.00	0.24	0.00
		WS	-0.05	2.06	0.02	0.02	5.24	0.00	0.00	0.24	0.00
2	3	WP	-0.79	2.06	0.38	-1.67	5.24	0.32	-0.28	2.24	0.12
		WS	0.87	2.06	0.42	1.84	4.90	0.37	0.31	2.24	0.14
2	4	WP	-0.39	2.06	0.19	-1.64	5.24	0.31	-0.25	2.24	0.11
		WS	-0.43	2.06	0.21	1.81	4.29	0.42	0.28	2.24	0.12
3	1	WP	0.04	2.06	0.02	-0.02	5.24	0.00	0.00	0.24	0.00
		WS	-0.04	2.06	0.02	0.02	5.24	0.00	0.00	0.24	0.00
3	2	WP	0.05	2.06	0.02	-0.02	5.24	0.00	0.00	0.24	0.00
		WS	-0.05	2.06	0.02	0.02	5.24	0.00	0.00	0.24	0.00
3	3	WP	0.79	2.06	0.38	-1.67	5.24	0.32	-0.28	2.24	0.12
		WS	-0.87	2.06	0.42	1.84	4.90	0.37	0.31	2.24	0.14
3	4	WP	-0.42	2.06	0.21	-1.78	5.24	0.34	-0.28	2.24	0.12
		WS	-0.47	2.06	0.23	1.96	4.29	0.46	0.30	2.24	0.14
4	1	WP	-0.36	2.06	0.17	-1.47	5.24	0.28	-0.22	2.19	0.10
		WS	-0.39	2.06	0.19	1.62	4.29	0.38	0.24	2.19	0.11
4	2	WP	0.42	2.06	0.20	-1.72	5.24	0.33	-0.25	2.19	0.12
		WS	-0.46	2.06	0.22	1.90	4.29	0.44	0.28	2.19	0.13
4	3	WP	0.42	2.06	0.20	-1.71	5.24	0.33	-0.25	2.19	0.12
		WS	-0.46	2.06	0.22	1.88	4.29	0.44	0.28	2.19	0.13
4	4	WP	0.44	2.06	0.22	-1.82	5.24	0.35	-0.27	2.19	0.12
		WS	-0.49	2.06	0.24	2.01	4.29	0.47	0.30	2.19	0.14

JAMB/HEADER LAYOUT:

Bay Id	Member Id	Member Size	Member Length	Member Weight
2	Jamb-L	9C16	16.83	53.7
	Jamb-R	9C16	16.83	53.7
	Header	9C16	14.00	44.6
3	Jamb-L	9C16	16.83	53.7
	Jamb-R	9C16	16.83	53.7
	Header	9C16	14.00	44.6

STRENGTH/DEFLECTION:

Bay Id	Member 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
2	Jamb-L	WP	-0.75	2.06	0.36	-3.16	5.27	0.60	0.23	-0.49	2.24
		WS	0.82	2.06	0.40	3.45	4.80	0.72	0.28	0.53	2.24
	Jamb-R	WP	-0.68	2.06	0.33	-2.87	5.27	0.54	0.19	-0.44	2.24
		WS	0.74	2.06	0.36	3.13	4.80	0.65	0.23	0.48	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	5.03	0.02	0.00	0.01	1.87
3	Jamb-L	WP	-0.68	2.06	0.33	-2.87	5.27	0.54	0.19	-0.44	2.24
		WS	0.74	2.06	0.36	3.13	4.80	0.65	0.23	0.48	2.24
	Jamb-R	WP	-0.75	2.06	0.36	-3.16	5.27	0.60	0.23	-0.49	2.24
		WS	0.82	2.06	0.40	3.45	4.80	0.72	0.28	0.53	2.24
	Header	WP	-0.03	2.06	0.02	-0.11	5.27	0.02	0.00	-0.01	1.87
		WS	0.03	2.06	0.02	0.12	4.70	0.03	0.00	0.01	1.87

PANEL DATA:

Bay	Part	Type	Gage	Yield
4	26 A	A	26.00	80.0

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Allow	Support UC	Midspan Calc	Midspan Allow	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC
1	3.33	WP	21.8	102.3	0.21	-9.2	104.4	0.09	-0.02	0.44	0.04
		WS	-23.6	104.4	0.23	10.0	102.3	0.10	0.02	0.44	0.04
2	4.75	WP	26.9	102.3	0.26	-13.2	104.4	0.13	-0.05	0.63	0.08
		WS	-29.1	104.4	0.28	14.3	102.3	0.14	0.06	0.63	0.09
3	4.75	WP	26.9	102.3	0.26	-13.8	104.4	0.13	-0.06	0.63	0.09
		WS	-29.1	104.4	0.28	14.9	102.3	0.15	0.06	0.63	0.10
4	4.67	WP	37.7	102.3	0.37	-7.5	104.4	0.07	-0.01	0.62	0.01
		WS	-40.9	104.4	0.39	8.1	102.3	0.08	0.01	0.62	0.01
5	5.38	WP	37.7	102.3	0.37	-31.1	104.4	0.30	-0.21	0.72	0.29
		WS	-40.9	104.4	0.39	33.6	102.3	0.33	0.22	0.72	0.31

.. No Warnings

FORCED SPACING:

Total Column Weight	=	883.06
Total Rafter Weight	=	0.00
Total Girt Weight	=	648.93
Total Door Jamb Weight	=	303.90
Total Bracing Weight	=	0.00
Total Clips Weight	=	66.00
Total Endwall Weight	=	1901.89

```
*=============================================================================
*W28886                  Endwall Design Input                    2/ 1/06   9:29am
*=============================================================================


*(1)JOBID:
    'W28886'

*(2)PROGRAM OPTIONS:
* EW    Run    Run  Run   Run    No.    Lap
* Id  Col/Raf Girt Brace Panel  Cycle  Stiff
  'R'   'Y'    'Y'  'Y'   'Y'      4   0.50

*(3)DESIGN CODE:
*
*Design  ---Steel_Code---            ---Build---  Seismic
* Code   Cold       Hot      Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'    '----'  'IBC '  '03'   'C  '

*(4)DESIGN CONSTANTS:                                                    Wind
* ---------------Steel_Yield(ksi  )--------------  ---Stress_Ratio---  Strength
* Web   Flg  C_Sec W_Sec R_Sec  U_Sec   EP  Panel  Col/Raf Girt Panel   Factor
 50.0  50.0   55.0  50.0  36.0   36.0  50.0  80.0    1.03  1.03  1.03   1.0000

*(5)DEFLECTION LIMITS:
* -----Rafter-----          ---Girt---  --Panel---  Part  Wind
* Live  Wind Total  Column  Wall Facia  Wall Facia  Wall  Bent
  180.  180.    0.   180.    90.    0.   90.    0.   90.   60.

*(6)REPORTS:
*   Input  Column  Wall  Door  Wall   Cable
*   Echo   Rafter  Girt  Jamb  Panel  Brace
    'I'     'Y'    'Y'   'Y'    'Y'    'Y'

*(7)BUILDING TYPE:
* Build      Build      Build     Expand_EW
*  Type      Width     Length     Use   Offset
  'FF-'   70.0000   280.0000   'N :-'   0.00

*(8)SURFACE SHAPE:
*  No.     X_Coord  Y_Coord   Offset
*  Surf      (ft)     (ft)     (in)
     3     0.0000   26.9167   9.000
          70.0000   24.0000   9.000
          70.0000    0.0000   9.000


*(9)BAY SPACING:
*No.Roof   Roof    Frame     Sets_Of   Bay   No.
*  Bay     Bay     Recess      Bays   Width  Bays
   14    20.0000  0.3333        1   17.5000   4


*(10)FRAMED OPENINGS:
*  No.  Bay   Open    Open     Open   Open   Sill   Base    Set   Member Remove
* Open  Id   Width   Height   Offset  Type  Height  Elev   Depth  Select Panel
```

```
    0

*(11)WIDE OPENING LAYOUT:
*----Open--- Bay_Id  --Clear_Opening--   Wedge     Stub    Column  Total
*No. Id Type St End  Width      Height   Height    Elev     Mount  Weight
 0

*(12)WIDE OPENING AND STRUT FRAMING:
*-Open- -----Door_Jamb----- Stub Head Back_Brace Strut -Header_Beam- Deflection
*No. Id Type FlgWid  FlgThk Type Type Type  Loc  Type  Type Max_Spc  Horz  Vert
 0

*(13)WIDE OPENING HEADER LOCATION:
*-Open-    No.        Column
*No. Id    Location   Location
 0

*(14)PARTIAL WALLS:
* Set_Of  Base  Full   --Bay_Id--    Wall
*  Bays   Type  Load   Start  End   Height
     1    'A '   'N'     1     4    4.0000


*(15)COLUMNS:
* --Left_Corner-- -Right_Corner--  -Int_Facia-- Int_No_Facia     Max_UnBr Base
* Type  Rot Depth  Type  Rot Depth  Type  Depth  Type  Depth Same Length  Elev
*            (in)            (in)         (in)         (in)  Dep   (ft)   (in)
 'W   ' '-'  0.00 'W   ' '-'  0.00 'W   '  0.00 'W   '  0.00 'N'  30.000  48.000

*(16)COLUMN SIZE:
*   Set       No.   Column
*  Member   Column   Size
    'Y'       5     'W08542'
                    'W08642'
                    'W08662'
                    'W08542'
                    'W08542'

*(17)RAFTERS:
* Rafter    Set    Rafter  Flange
* Select   Depth    Same    Brace
  'CDW '   0.000    'Y'     'Y'

*(18)RAFTERS SIZE:
*   Set       No.   Rafter
*  Member   Rafter   Size
    'N'

*(19)RAFTER SPLICES:
*   Surf    No.    Splice    Splice
*    Id   Splice    Loc       Type
      2      2    20.5152     'M '
                  38.0304     'M '


*(20)GIRT DESIGN:
*Girt Flg_Brace                 Set     Set     Max  Girt_To One_Girt  Max_Unbr
```

```
*Type Out   In  Offset Project  Depth    Lap    Space  Rafter Depth/Bay  Length
 'ZF' 'C'  'Y'   0.000   0.000  9.000  0.0000  7.3333   'Y'      'Y'      13.0000

*(21)GIRT LOCATION:
* Set   No.   Girt
* Loc  Girt   Location
  'Y'    4    7.3333 12.0833 16.8333 21.5000

*(22)SPECIAL GIRT:
* Sets_Of  --Bay_Id--   Girt  Girt   Girt
*  Girts   Start  End  Height Type  Rotate
     0

*(23)ROOF PURLINS:
*Surf   Surf    No.   Peak   Set_Of   Set_Space
* Id    Ext   Purlin  Space  Space   Space  No.
   2   0.000    15    0.833     0

*(24)PANELS/RF_COLUMNS:
*   Wall      Insulation  RF_Interior_Columns
*   Panel     Use  Thick  No.  Locate
  '26  A   '  'N'  0.000   0

*(25)WIND FRAMING SELECTION:
* -----Order_Of_Selection------
* Panel  Diagonal  Wind   Wind
* Shear  Bracing   Bent  Column
   'N'     'Y'      'N'    'N'

*(26)WALL BRACING:
*   Wind   Brace     No._Bay   Specified
*  Shear   Type     Specified  Bays_For_Bracing
   75.0    'CR'        1          3

*(27)WIND BENTS:
* --Member--    No.
* Type  Depth   Bay    Bay_Id
  '-'    0.00     0

*(28)WIND COLUMNS:
* --Member--    No.             Left/
* Type  Depth   Bay    Bay_Id   Right
  '-'    0.00     0

*(29)WALL BRACING ATTACHMENT
* No.    Attach   --Bay_Id--    No.
*Attach    Id     Start  End   Level         Level_Height
    0

*(30)EAVE EXTENSION:
*
*Wall  No.  Ext -Bay_Id--                          -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope   Left    Right  Mount
   2    0
   4    0

*(31)CANOPY:
```

```
*
*Wall  No.  Ext -Bay_Id--                              -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope   Left    Right  Mount
   3    0
   2    0
   4    0

*(32)FACIA/PARAPET  :
*
*Wall No. Ext Fac Bay_Id  ----Attach_Beam---- ---Facia/Parapet--- Edge_Extend
Ext
* Id  Ext Id Type St End Height Width   Slope  Elev  Height Slope  Left Right
Mnt
*            (C,E)        (ft)   (ft)  (?:12 ) (ft)   (ft) (?:12 ) (ft) (ft)
   3   0
   2   0
   4   0

*(33)FACIA/PARAPET GIRTS:
*
*Ext  ----Top----  --Interior-  ---Back_Panel---  Angle
*Id   Type Rotate  Type Rotate  Part      Rotate Spacing

*(34)ADJACENT BUILDING:
*
*Wall  No.  Ext -Bay_Id--                              -Edge_Extend-   Ext
*Id    Ext  Id  Start End Height  Width    Slope   Left    Right  Mount
   2    0
   4    0

*(35)LOADS FOR EAVE EXTENSION, CANOPY, FACIA, PARAPET, AND ADJACENT BUILDING:
*
*
*Ext                         Ext_Beam   Facia/Parapet  Facia/Parapet_Girt
*Id  Dead  Collat  Live     Press Suct   Press  Suct      Press  Suct

*(35)BASIC LOADS:
*                                                      -----Edge_Strip_Ratio-----
* Dead   Collat  Live   Snow  Basic  Wind_Load_Ratio  Zone                  Col/
* Load    Load   Load   Load   Wind  Deflect  Factor  Width   Girt  Panel   Jamb
   2.2     5.0   20.0   35.0   12.3   1.00     1.00   7.000   1.00   1.00   1.00

*(36)BASIC LOADS AT EAVE:
*   Seis_Coeff     Seis_Load    Torsion_Forces
*  Frame  Brace   Frame  Brace   Wind  Seismic
  0.0533 0.1493    0.73   2.04    0.00    0.00

*(37)WIND PRESSURE/SUCTION:
*
*   Wind      Wind
*   Press     Suct
     10.8    -11.9    .. Column
     10.8    -11.9    .. Girt/Header
     10.8    -11.8    .. Jamb
     13.3    -14.4    .. Panel
     22.2    -13.6    .. Parapet Girt
```

*(38)WIND COEFFICIENTS:

* Surf Id	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Bracing_Wind Left	Bracing_Wind Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.41	-0.69	0.00	0.00
2	-1.22	-1.22	-0.86	-0.86	-1.22	-1.22	-1.22	0.00
3	0.00	0.00	0.00	0.00	-0.60	0.48	0.00	0.00

*(39)COLUMN & BRACING DESIGN LOADS:
*

*Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Seis	Aux_Load Id	Aux_Load Coef
10	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
	3	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0	0.00
	5	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	6	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0	0.00
	8	1.07	1.07	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0	0.00
	9	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	10	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

*(40)COLUMN & BRACING DESIGN LOADS: Deflection
*

*Load No	Id	Dead	Coll	Snow/ Live	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Seis	Aux_Load Id	Aux_Load Coef
0														

*(41)RAFTER DESIGN LOADS:
*

* No. *Load	Load Id	Dead	Collat	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Seis	Aux_Load Id	Aux_Load Coef
13	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	0.60	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	4	0.60	0.00	0.00	0.00	0.00	1.00	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	0.00
	6	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	8	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1.00
	9	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	1.00
	10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	1.00
	11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	1.00
	12	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

*(42)RAFTER DESIGN LOADS: Deflection
*

* No. *Load	Load Id	Dead	Collat	Snow/ Live	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Seis	Aux_Load Id	Aux_Load Coef
0												

*(43)AUXILIARY LOADS:

* No. * Aux	Aux Id	Aux Name	No._Add Combs	Add_Load Id	Add_Load Coef

```
   5     1   'E2PAT_SL 1'   2      1    0.57
                                   2    0.57

         2   'E2PAT_SL 2'   2      2    0.57
                                   3    0.57

         3   'E2PAT_SL 3'   2      3    0.57
                                   4    0.57

         4   'E2PAT_SL 4'   2      1    0.57
                                   3    0.57

         5   'E2PAT_SL 5'   2      2    0.57
                                   4    0.57
```

*(44)ADDITIONAL LOADS:

* No. Add	Surf	Basic	Load	FX	FY	M	X	Y	..Conc
* Add	Id	Id	Load	Type	W1	W2	Co	DL1	DL2	..Unif
4	1	2	'------'	'D '	-0.355	-0.355	-0.04	0.00	17.52	
	2	2	'------'	'D '	-0.355	-0.355	-0.04	17.52	35.03	
	3	2	'------'	'D '	-0.355	-0.355	-0.04	35.03	52.55	
	4	2	'------'	'D '	-0.355	-0.355	-0.04	52.55	70.06	

*(46)GIRT LAPS:

*	Data	------Set_1-------		------Set_2-------		------Set_3-------	
* Opt	Sets	Left	Right Quan	Left	Right Quan	Left	Right Quan
'-'	0						

*(47)GIRT STRAPS:

*	Data	---Set_1---		---Set_2---		---Set_3---		---Set_4---	
*Opt	Sets	Strap	Quan	Strap	Quan	Strap	Quan	Strap	Quan
'-'	0								

* Code file used was EW_IBC.03

```
==============================================================================
W28886                  Endwall Design Code                    2/ 1/06 10:06am
==============================================================================

   STRUCTURAL CODE:
     Design Basis       : WS
     Hot  Rolled Steel  : AISC89
     Cold Formed Steel  : AISI96

   BUILDING CODE:
     Wind Code          : IBC
     Year               : 03
     Seismic Zone       : C

   MODULUS OF ELASTICITY
```

Hot Rolled Steel : 29000 (ksi)
Cold Formed Steel : 29500 (ksi)

MEMBER SIZES:

Member Id	Member Locate	Member Size	Web Size Depth	Web Size Thick	Flange Size Width	Flange Size Thick	Member Length	Member Weight
Col-1	0.8	W08542	7.50	0.112	5.00	0.250	21.5	247.1
Col-2	17.5	W08642	7.50	0.112	6.00	0.250	20.8	274.4
Col-3	35.0	W08662	7.25	0.112	6.00	0.375	20.0	364.9
Col-4	52.5	W08542	7.50	0.112	5.00	0.250	19.3	222.3
Col-5	69.3	W08542	7.50	0.112	5.00	0.250	18.6	214.2
Raf-1		W08542	7.50	0.112	5.00	0.250	20.5	235.8
Raf-2		W08542	7.50	0.112	5.00	0.250	17.5	201.6
Raf-3		W08542	7.50	0.112	5.00	0.250	32.1	369.0
							Total=	2129.31

DESIGN ACTIONS/STRESSES:

Mem Id	Load Id	Axial(k ,ksi) Design Load	Axial(k ,ksi) Calc Stress	Axial(k ,ksi) Allow Stress	Shear(k ,ksi) Design Load	Shear(k ,ksi) Calc Stress	Shear(k ,ksi) Allow Stress	Moment(f-k ,ksi) Design Load	Moment(f-k ,ksi) Calc Stress	Moment(f-k ,ksi) Allow Stress
Col-1	1	4.19	1.27	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	2	2.37	0.72	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	3	2.37	0.72	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	4	-1.19	-0.36	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	5	-1.19	-0.36	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	6	-1.19	-0.36	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	7	3.46	1.05	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	8	3.47	1.05	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	9	0.67	0.20	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-1	10	0.68	0.21	20.34	0.00	0.00	16.04	0.00	0.00	30.00
Col-2	1	8.80	2.31	20.97	0.00	0.00	16.04	0.00	0.00	31.01
Col-2	2	4.86	1.28	20.97	-1.59	1.89	16.04	8.24	-8.11	31.01
Col-2	3	4.86	1.28	20.97	-1.59	1.89	16.04	8.24	-8.11	31.01
Col-2	4	-2.56	-0.67	30.00	1.92	2.29	16.04	-9.97	-9.81	31.01
Col-2	5	-2.56	-0.67	30.00	-2.12	2.52	16.04	10.99	-10.81	31.01
Col-2	6	-2.56	-0.67	30.00	-2.12	2.52	16.04	10.99	-10.81	31.01
Col-2	7	7.20	1.90	20.97	0.00	0.00	16.04	0.00	0.00	31.01
Col-2	8	7.22	1.90	20.97	0.00	0.00	16.04	0.00	0.00	31.01
Col-2	9	1.27	0.34	20.97	0.00	0.00	16.04	0.00	0.00	31.01
Col-2	10	1.29	0.34	20.97	0.00	0.00	16.04	0.00	0.00	31.01
Col-3	1	7.69	1.45	21.52	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	2	4.31	0.81	21.52	-1.57	1.93	16.60	7.84	-5.44	33.00
Col-3	3	6.16	1.16	21.52	-1.57	1.93	16.60	7.84	-5.44	33.00
Col-3	4	-2.20	-0.42	30.00	1.89	2.33	16.60	-9.49	-6.58	33.00
Col-3	5	-2.20	-0.42	30.00	-2.09	2.57	16.60	10.45	-7.25	33.00

Col-3	6	-2.20	-0.42	30.00	-2.09	2.57	16.60	10.45	-7.25	33.00
Col-3	7	6.33	1.19	21.52	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	8	7.32	1.38	21.52	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	9	1.18	0.22	21.52	0.00	0.00	16.60	0.00	0.00	33.00
Col-3	10	2.13	0.40	21.52	0.00	0.00	16.60	0.00	0.00	33.00
Col-4	1	8.75	2.65	21.70	0.00	0.00	16.04	0.00	0.00	30.00
Col-4	2	6.83	2.07	21.70	-1.48	1.76	16.04	7.12	-8.22	30.00
Col-4	3	4.82	1.46	21.70	-1.48	1.76	16.04	7.12	-8.22	30.00
Col-4	4	-2.54	-0.77	30.00	1.79	2.13	16.04	-8.62	-9.95	30.00
Col-4	5	-2.54	-0.77	30.00	-1.97	2.34	16.04	9.50	-10.96	30.00
Col-4	6	-2.54	-0.77	30.00	-1.97	2.34	16.04	9.50	-10.96	30.00
Col-4	7	8.19	2.48	21.70	0.00	0.00	16.04	0.00	0.00	30.00
Col-4	8	7.17	2.17	21.70	0.00	0.00	16.04	0.00	0.00	30.00
Col-4	9	2.23	0.68	21.70	0.00	0.00	16.04	0.00	0.00	30.00
Col-4	10	1.26	0.38	21.70	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	1	4.07	1.23	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	2	2.29	0.69	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	3	2.29	0.69	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	4	-1.16	-0.35	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	5	-1.16	-0.35	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	6	-1.16	-0.35	30.00	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	7	3.35	1.02	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	8	3.36	1.02	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	9	0.64	0.19	22.12	0.00	0.00	16.04	0.00	0.00	30.00
Col-5	10	0.64	0.20	22.12	0.00	0.00	16.04	0.00	0.00	30.00
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Raf-1	1	0.19	0.06	23.20	-4.47	5.32	16.04	13.50	-15.57	32.43
Raf-1	2	0.17	0.05	22.77	1.34	1.60	16.04	-4.06	-4.68	32.43
Raf-1	3	0.17	0.05	22.77	1.34	1.60	16.04	-4.06	-4.68	32.43
Raf-1	4	0.12	0.04	22.77	0.89	1.06	16.04	-2.68	-3.09	32.43
Raf-1	5	0.12	0.04	22.77	0.89	1.06	16.04	-2.68	-3.09	32.43
Raf-1	6	0.17	0.05	22.77	1.34	1.60	16.04	-4.06	-4.68	32.43
Raf-1	7	0.12	0.04	23.20	-2.96	3.52	16.04	9.43	-10.88	32.43
Raf-1	8	-0.10	-0.03	30.00	2.30	2.74	16.04	4.87	-5.62	30.00
Raf-1	9	0.03	0.01	23.20	-0.82	0.98	16.04	-2.01	-2.32	30.00
Raf-1	10	0.11	0.03	23.20	-2.72	3.24	16.04	-7.28	-8.40	30.00
Raf-1	11	-0.11	-0.03	30.00	2.61	3.11	16.04	5.97	-6.89	30.00
Raf-1	12	0.39	0.12	23.20	-4.46	5.31	16.04	13.48	-15.56	32.43
Raf-1	13	-0.37	-0.11	30.00	-4.47	5.33	16.04	13.51	-15.59	32.43
Raf-2	1	0.15	0.05	22.77	-3.66	4.36	16.04	10.12	-11.68	32.43
Raf-2	2	0.28	0.09	22.77	1.10	1.31	16.04	-3.04	-3.51	32.43
Raf-2	3	0.28	0.09	22.77	1.10	1.31	16.04	-3.04	-3.51	32.43
Raf-2	4	0.20	0.06	22.77	0.73	0.86	16.04	-2.01	-2.32	32.43
Raf-2	5	0.20	0.06	22.77	0.73	0.86	16.04	-2.01	-2.32	32.43
Raf-2	6	0.28	0.09	22.77	1.10	1.31	16.04	-3.04	-3.51	32.43
Raf-2	7	0.08	0.02	22.77	-2.21	2.63	16.04	-4.28	-4.94	30.00
Raf-2	8	0.11	0.03	22.77	-2.72	3.24	16.04	8.57	-9.89	32.43
Raf-2	9	-0.08	-0.02	30.00	2.22	2.64	16.04	4.27	-4.92	30.00
Raf-2	10	-0.09	-0.03	30.00	2.42	2.88	16.04	4.27	-4.92	30.00
Raf-2	11	0.09	0.03	22.77	-2.41	2.87	16.04	-5.72	-6.60	30.00
Raf-2	12	0.53	0.16	22.77	-3.66	4.35	16.04	10.11	-11.67	32.43
Raf-2	13	-0.34	-0.10	30.00	-3.66	4.36	16.04	10.13	-11.69	32.43
Raf-3	1	0.17	0.05	22.77	4.47	5.33	16.04	13.51	-15.59	32.43
Raf-3	2	0.29	0.09	22.77	-1.35	1.60	16.04	-4.06	-4.69	32.43
Raf-3	3	0.29	0.09	22.77	-1.35	1.60	16.04	-4.06	-4.69	32.43
Raf-3	4	0.21	0.06	22.77	-0.89	1.06	16.04	-2.68	-3.09	32.43
Raf-3	5	0.21	0.06	22.77	-0.89	1.06	16.04	-2.68	-3.09	32.43

Raf-3	6	0.29	0.09	22.77	-1.35	1.60	16.04	-4.06	-4.69	32.43
Raf-3	7	-0.03	-0.01	30.00	0.83	0.98	16.04	-2.02	-2.33	30.00
Raf-3	8	0.10	0.03	22.77	-2.30	2.73	16.04	4.87	-5.62	30.00
Raf-3	9	0.12	0.04	22.77	2.96	3.53	16.04	9.44	-10.89	32.43
Raf-3	10	0.11	0.03	22.77	-2.61	3.10	16.04	5.97	-6.89	30.00
Raf-3	11	0.09	0.03	23.20	2.73	3.24	16.04	-7.47	-8.61	30.00
Raf-3	12	0.73	0.22	22.77	4.47	5.32	16.04	13.50	-15.57	32.43
Raf-3	13	0.37	0.11	22.77	4.48	5.33	16.04	13.52	-15.60	32.43

STRESS RATIO:

Mem Id	Load Id	Axial	Shear	Moment	Axl□	Shr□	Max_UC
Col-1	1	0.06	0.00	0.00	0.06		0.06
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	0.01	0.00	0.00	0.00		0.01
Col-1	5	0.01	0.00	0.00	0.00		0.01
Col-1	6	0.01	0.00	0.00	0.00		0.01
Col-1	7	0.05	0.00	0.00	0.05		0.05
Col-1	8	0.05	0.00	0.00	0.05		0.05
Col-1	9	0.01	0.00	0.00	0.01		0.01
Col-1	10	0.01	0.00	0.00	0.01		0.01
Col-2	1	0.11	0.00	0.00	0.11		0.11
Col-2	2	0.06	0.12	0.26	0.30		0.30
Col-2	3	0.06	0.12	0.26	0.30		0.30
Col-2	4	0.02	0.14	0.32	0.32		0.32
Col-2	5	0.02	0.16	0.35	0.35		0.35
Col-2	6	0.02	0.16	0.35	0.35		0.35
Col-2	7	0.09	0.00	0.00	0.09		0.09
Col-2	8	0.09	0.00	0.00	0.09		0.09
Col-2	9	0.02	0.00	0.00	0.02		0.02
Col-2	10	0.02	0.00	0.00	0.02		0.02
Col-3	1	0.07	0.00	0.00	0.07		0.07
Col-3	2	0.04	0.12	0.16	0.19		0.19
Col-3	3	0.05	0.12	0.16	0.20		0.20
Col-3	4	0.01	0.14	0.20	0.20		0.20
Col-3	5	0.01	0.15	0.22	0.22		0.22
Col-3	6	0.01	0.15	0.22	0.22		0.22
Col-3	7	0.06	0.00	0.00	0.06		0.06
Col-3	8	0.06	0.00	0.00	0.06		0.06
Col-3	9	0.01	0.00	0.00	0.01		0.01
Col-3	10	0.02	0.00	0.00	0.02		0.02
Col-4	1	0.12	0.00	0.00	0.12		0.12
Col-4	2	0.10	0.11	0.27	0.34		0.34
Col-4	3	0.07	0.11	0.27	0.32		0.32
Col-4	4	0.03	0.13	0.33	0.33		0.33
Col-4	5	0.03	0.15	0.37	0.37		0.37
Col-4	6	0.03	0.15	0.37	0.37		0.37
Col-4	7	0.11	0.00	0.00	0.11		0.11
Col-4	8	0.10	0.00	0.00	0.10		0.10
Col-4	9	0.03	0.00	0.00	0.03		0.03
Col-4	10	0.02	0.00	0.00	0.02		0.02
Col-5	1	0.06	0.00	0.00	0.06		0.06
Col-5	2	0.03	0.00	0.00	0.03		0.03

Col-5	3	0.03	0.00	0.00	0.03		0.03
Col-5	4	0.01	0.00	0.00	0.00		0.01
Col-5	5	0.01	0.00	0.00	0.00		0.01
Col-5	6	0.01	0.00	0.00	0.00		0.01
Col-5	7	0.05	0.00	0.00	0.05		0.05
Col-5	8	0.05	0.00	0.00	0.05		0.05
Col-5	9	0.01	0.00	0.00	0.01		0.01
Col-5	10	0.01	0.00	0.00	0.01		0.01
Raf-1	1	0.00	0.33	0.48	0.48		0.48
Raf-1	2	0.00	0.10	0.14	0.15		0.15
Raf-1	3	0.00	0.10	0.14	0.15		0.15
Raf-1	4	0.00	0.07	0.10	0.10		0.10
Raf-1	5	0.00	0.07	0.10	0.10		0.10
Raf-1	6	0.00	0.10	0.14	0.15		0.15
Raf-1	7	0.00	0.22	0.34	0.34		0.34
Raf-1	8	0.00	0.17	0.19	0.19		0.19
Raf-1	9	0.00	0.06	0.08	0.08		0.08
Raf-1	10	0.00	0.20	0.28	0.28		0.28
Raf-1	11	0.00	0.19	0.23	0.23		0.23
Raf-1	12	0.01	0.33	0.48	0.48		0.48
Raf-1	13	0.00	0.33	0.48	0.48		0.48
Raf-2	1	0.00	0.27	0.36	0.36		0.36
Raf-2	2	0.00	0.08	0.11	0.11		0.11
Raf-2	3	0.00	0.08	0.11	0.11		0.11
Raf-2	4	0.00	0.05	0.07	0.07		0.07
Raf-2	5	0.00	0.05	0.07	0.07		0.07
Raf-2	6	0.00	0.08	0.11	0.11		0.11
Raf-2	7	0.00	0.16	0.16	0.16		0.16
Raf-2	8	0.00	0.20	0.30	0.31		0.31
Raf-2	9	0.00	0.16	0.16	0.16		0.16
Raf-2	10	0.00	0.18	0.16	0.16		0.18
Raf-2	11	0.00	0.18	0.22	0.22		0.22
Raf-2	12	0.01	0.27	0.36	0.37		0.37
Raf-2	13	0.00	0.27	0.36	0.36		0.36
Raf-3	1	0.00	0.33	0.48	0.48		0.48
Raf-3	2	0.00	0.10	0.14	0.15		0.15
Raf-3	3	0.00	0.10	0.14	0.15		0.15
Raf-3	4	0.00	0.07	0.10	0.10		0.10
Raf-3	5	0.00	0.07	0.10	0.10		0.10
Raf-3	6	0.00	0.10	0.14	0.15		0.15
Raf-3	7	0.00	0.06	0.08	0.08		0.08
Raf-3	8	0.00	0.17	0.19	0.19		0.19
Raf-3	9	0.00	0.22	0.34	0.34		0.34
Raf-3	10	0.00	0.19	0.23	0.23		0.23
Raf-3	11	0.00	0.20	0.29	0.29		0.29
Raf-3	12	0.01	0.33	0.48	0.49		0.49
Raf-3	13	0.00	0.33	0.48	0.48		0.48

MEMBER DEFLECTIONS/COLUMN REACTIONS:

Mem Id	Load Id	Deflection(in) Calc	Allow	Reaction(k) Horz(OP)	Vert	Horz(IP)
Col-1	1	0.00	1.43	0.00	4.19	0.00
Col-1	2	0.00	1.43	0.00	2.37	0.00

Col-1	3	0.00	1.43	0.00	2.37	0.00
Col-1	4	0.00	1.43	0.00	-1.04	0.00
Col-1	5	0.00	1.43	0.00	-1.04	0.00
Col-1	6	0.00	1.43	0.00	-1.04	0.00
Col-1	7	0.00	1.43	0.00	3.46	0.00
Col-1	8	0.00	1.43	0.00	3.47	0.00
Col-1	9	0.00	1.43	0.00	0.67	0.00
Col-1	10	0.00	1.43	0.00	0.68	0.00
Col-2	1	0.00	1.38	0.00	8.80	0.00
Col-2	2	0.45	1.38	1.59	4.86	0.00
Col-2	3	0.45	1.38	1.59	4.86	0.00
Col-2	4	-0.54	1.38	-1.92	-2.40	0.00
Col-2	5	0.60	1.38	2.12	-2.40	0.00
Col-2	6	0.60	1.38	2.12	-2.40	0.00
Col-2	7	0.00	1.38	0.00	7.20	0.00
Col-2	8	0.00	1.38	0.00	7.22	0.00
Col-2	9	0.00	1.38	0.00	1.27	0.00
Col-2	10	0.00	1.38	0.00	1.29	0.00
Col-3	1	0.00	1.34	0.00	7.69	0.00
Col-3	2	0.28	1.34	1.57	2.30	1.53
Col-3	3	0.28	1.34	1.57	6.16	0.00
Col-3	4	-0.34	1.34	-1.89	-1.98	0.00
Col-3	5	0.38	1.34	2.09	-1.98	0.00
Col-3	6	0.38	1.34	2.09	-1.98	0.00
Col-3	7	0.00	1.34	0.00	5.32	0.77
Col-3	8	0.00	1.34	0.00	7.32	0.00
Col-3	9	0.00	1.34	0.00	0.22	0.73
Col-3	10	0.00	1.34	0.00	2.13	0.00
Col-4	1	0.00	1.29	0.00	8.75	0.00
Col-4	2	0.40	1.29	1.48	6.83	0.00
Col-4	3	0.40	1.29	1.48	2.97	1.41
Col-4	4	-0.48	1.29	-1.79	-2.41	0.00
Col-4	5	0.53	1.29	1.97	-2.41	0.00
Col-4	6	0.53	1.29	1.97	-2.41	0.00
Col-4	7	0.00	1.29	0.00	8.19	0.00
Col-4	8	0.00	1.29	0.00	6.16	0.77
Col-4	9	0.00	1.29	0.00	2.23	0.00
Col-4	10	0.00	1.29	0.00	0.30	0.73
Col-5	1	0.00	1.24	0.00	4.07	0.00
Col-5	2	0.00	1.24	0.00	2.29	0.00
Col-5	3	0.00	1.24	0.00	2.29	0.00
Col-5	4	0.00	1.24	0.00	-1.03	0.00
Col-5	5	0.00	1.24	0.00	-1.03	0.00
Col-5	6	0.00	1.24	0.00	-1.03	0.00
Col-5	7	0.00	1.24	0.00	3.35	0.00
Col-5	8	0.00	1.24	0.00	3.36	0.00
Col-5	9	0.00	1.24	0.00	0.64	0.00
Col-5	10	0.00	1.24	0.00	0.64	0.00
Raf-1	1	-0.30	1.17			
Raf-1	2	0.09	1.17			
Raf-1	3	0.09	1.17			
Raf-1	4	0.06	1.17			
Raf-1	5	0.06	1.17			
Raf-1	6	0.09	1.17			
Raf-1	7	-0.18	1.17			
Raf-1	8	-0.06	1.17			

Raf-1	9	-0.07	1.17
Raf-1	10	-0.28	1.17
Raf-1	11	-0.09	1.17
Raf-1	12	-0.30	1.17
Raf-1	13	-0.30	1.17
Raf-2	1	-0.12	1.17
Raf-2	2	0.04	1.17
Raf-2	3	0.04	1.17
Raf-2	4	0.02	1.17
Raf-2	5	0.02	1.17
Raf-2	6	0.04	1.17
Raf-2	7	-0.13	1.17
Raf-2	8	-0.12	1.17
Raf-2	9	-0.06	1.17
Raf-2	10	0.11	1.17
Raf-2	11	-0.22	1.17
Raf-2	12	-0.12	1.17
Raf-2	13	-0.12	1.17
Raf-3	1	-0.30	1.17
Raf-3	2	0.09	1.17
Raf-3	3	0.09	1.17
Raf-3	4	0.06	1.17
Raf-3	5	0.06	1.17
Raf-3	6	0.09	1.17
Raf-3	7	-0.07	1.17
Raf-3	8	-0.13	1.17
Raf-3	9	-0.18	1.17
Raf-3	10	-0.21	1.17
Raf-3	11	-0.28	1.17
Raf-3	12	-0.30	1.17
Raf-3	13	-0.30	1.17

W28886 Rafter Splice Report 2/ 1/06 10:06am

Splice Id	Typ	-Surface- Id	Locate	---Plate--- Width	Thick	-----Design_Load---- Id	Axl	Shr	Mom	----Bolts(A325)---- Row	Diam	Space	Gage
1	M	2	20.5	5.0	0.375	10	0.0	0.6	3.4	2	0.500	3.00	3.00
						2	0.2	0.8	-1.0	2	0.500	3.00	3.00
2	M	2	38.0	5.0	0.375	11	0.0	0.4	2.6	2	0.500	3.00	3.00
						10	0.1	1.6	-1.6	2	0.500	3.00	3.00

W28886 Base Plate & Anchor Bolt Design 2/ 1/06 10:06am

Column_Base Id	Depth	Max_Reactions(k) Comp	Tens	Shear	--Plate_Size(in)-- Width	Length	Thick	-Bolts(A307)- Row	Diam	Gage
Col-1	8.0	4.2	-1.0	0.0						
Col-2	8.0	8.8	-2.4	2.1						

Col-3	8.0	7.7	-2.0	2.2
Col-4	8.0	8.7	-2.4	2.0
Col-5	8.0	4.1	-1.0	0.0

GIRT LOCATION:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	7.333	12.083	16.833	21.500
2	4	7.333	12.083	16.833	21.500
3	4	7.333	12.083	16.833	21.500
4	4	7.333	12.083	16.833	21.500

GIRT SPAN:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	15.833	15.833	15.833	15.833
2	4	16.792	16.792	16.792	16.792
3	4	16.792	16.792	16.792	16.792
4	4	15.833	15.833	15.833	15.833

GIRT SIZE:

Bay Id	No. Girt	Girt Id 1	2	3	4
1	4	9Z16	9Z16	9Z16	9Z16
2	4	9Z16	9Z16	9Z16	9Z16
3	4	9Z16	9Z16	9Z16	9Z16
4	4	9Z16	9Z16	9Z16	9Z16

GIRT INSIDE FLANGE BRACE:

No. Brace/Bay 1	2	3	4
1	1	1	1

GIRT ACTIONS:

Bay Id	Girt Id	Ld Id	--Shear(k)--- Calc	Allow	UC	--Moment(f-k)-- Calc	Allow	UC	---Deflect(in)-- Calc	Allow	UC
1	1	WP	0.35	2.06	0.17	-1.37	5.24	0.26	-0.19	2.11	0.09
		WS	-0.38	2.06	0.18	1.51	4.29	0.35	0.21	2.11	0.10
1	2	WP	0.41	2.06	0.20	-1.61	5.24	0.31	-0.22	2.11	0.10
		WS	-0.45	2.06	0.22	1.77	4.29	0.41	0.24	2.11	0.12
1	3	WP	0.40	2.06	0.20	-1.59	5.24	0.30	-0.22	2.11	0.10
		WS	-0.44	2.06	0.22	1.76	4.29	0.41	0.24	2.11	0.11
1	4	WP	0.43	2.06	0.21	-1.70	5.24	0.32	-0.23	2.11	0.11
		WS	0.47	2.06	0.23	1.87	4.29	0.44	0.26	2.11	0.12

2	1	WP	-0.37	2.06	0.18	-1.54	5.24	0.29	-0.24	2.24	0.11
		WS	-0.40	2.06	0.20	1.70	4.29	0.39	0.26	2.24	0.12
2	2	WP	-0.43	2.06	0.21	-1.81	5.24	0.35	-0.28	2.24	0.12
		WS	-0.47	2.06	0.23	1.99	4.29	0.46	0.31	2.24	0.14
2	3	WP	-0.43	2.06	0.21	-1.79	5.24	0.34	-0.28	2.24	0.12
		WS	-0.47	2.06	0.23	1.97	4.29	0.46	0.31	2.24	0.14
2	4	WP	-0.42	2.06	0.21	-1.78	5.24	0.34	-0.28	2.24	0.12
		WS	-0.47	2.06	0.23	1.96	4.29	0.46	0.30	2.24	0.14
3	1	WP	0.37	2.06	0.18	-1.54	5.24	0.29	-0.24	2.24	0.11
		WS	-0.40	2.06	0.20	1.70	4.29	0.39	0.26	2.24	0.12
3	2	WP	0.43	2.06	0.21	-1.81	5.24	0.35	-0.28	2.24	0.12
		WS	-0.47	2.06	0.23	1.99	4.29	0.46	0.31	2.24	0.14
3	3	WP	0.43	2.06	0.21	-1.79	5.24	0.34	-0.28	2.24	0.12
		WS	0.47	2.06	0.23	1.97	4.29	0.46	0.31	2.24	0.14
3	4	WP	0.39	2.06	0.19	-1.64	5.24	0.31	-0.25	2.24	0.11
		WS	0.43	2.06	0.21	1.81	4.29	0.42	0.28	2.24	0.12
4	1	WP	0.35	2.06	0.17	-1.37	5.24	0.26	-0.19	2.11	0.09
		WS	-0.38	2.06	0.18	1.51	4.29	0.35	0.21	2.11	0.10
4	2	WP	-0.41	2.06	0.20	-1.61	5.24	0.31	-0.22	2.11	0.10
		WS	-0.45	2.06	0.22	1.77	4.29	0.41	0.24	2.11	0.12
4	3	WP	0.40	2.06	0.20	-1.59	5.24	0.30	-0.22	2.11	0.10
		WS	-0.44	2.06	0.22	1.76	4.29	0.41	0.24	2.11	0.11
4	4	WP	0.34	2.06	0.16	-1.33	5.24	0.25	-0.18	2.11	0.09
		WS	-0.37	2.06	0.18	1.47	4.29	0.34	0.20	2.11	0.10

==========

W28886 Endwall Diagonal Bracing Summary 2/ 1/06 10:06am

==========

PANEL SHEAR WITH NO BRACING:

Panel Shear
Allow =Open Wall
Calc = 0.0

DIAGONAL BRACING REQUIRED:

Bay Id	Level Height	Diag_Brace Type	Diag_Brace Size	Diag_Brace Part	Brace_Tension(k) Wind Calc	Wind Allow	Seismic Calc	Seismic Allow	Max UC
3	23.54	C	0.312	CB0313	2.52	5.60	3.54	5.60	0.63

COLUMN BASE REACTIONS:

Bay Id	Col Id	Wind_Max Horz	Wind_Max Vert()	Seismic_Max Horz	Seismic_Max Vert()
3	3	-1.53	2.01	-0.77	1.01
3	4	1.41	1.86	0.77	1.01

PANEL DATA:

Bay	Part	Type	Gage	Yield
1	26 A	A	26.00	80.0

MOMENTS & DEFLECTION:

Span Id	Span (ft)	LD Id	Moment(ft-lb/ft) Support Calc	Support Allow	Support UC	Midspan Calc	Midspan Allow	Midspan UC	Deflect(in) Calc	Deflect(in) Allow	Deflect(in) UC
1	3.33	WP	21.8	102.3	0.21	-9.2	104.4	0.09	-0.02	0.44	0.04
		WS	-23.6	104.4	0.23	10.0	102.3	0.10	0.02	0.44	0.04
2	4.75	WP	26.9	102.3	0.26	-13.2	104.4	0.13	-0.05	0.63	0.08
		WS	-29.1	104.4	0.28	14.3	102.3	0.14	0.06	0.63	0.09
3	4.75	WP	26.9	102.3	0.26	-13.8	104.4	0.13	-0.06	0.63	0.09
		WS	-29.1	104.4	0.28	14.9	102.3	0.15	0.06	0.63	0.10
4	4.67	WP	37.7	102.3	0.37	-7.5	104.4	0.07	-0.01	0.62	0.01
		WS	-40.9	104.4	0.39	8.1	102.3	0.08	0.01	0.62	0.01
5	5.38	WP	37.7	102.3	0.37	-31.1	104.4	0.30	-0.21	0.72	0.29
		WS	-40.9	104.4	0.39	33.6	102.3	0.33	0.22	0.72	0.31

.. No Warnings

FORCED SPACING:

Total Column Weight	=	1322.91
Total Rafter Weight	=	806.40
Total Girt Weight	=	824.53
Total Door Jamb Weight	=	0.00
Total Bracing Weight	=	12.37
Total Clips Weight	=	52.80

Total Endwall Weight = 3019.00

```
*=============================================================================
*W28886                  Rigid Frame Design Input                2/ 1/06 10:01am
*=============================================================================

*--------------------
* < PROGRAM CONTROL >
*--------------------
*
*(1)JOBID:
    'W28886              '

*(2)PROGRAM OPTIONS:
*Frame  Frame  Stress  Frame   No.   End_Conn  Splice
* Id    Type   Space   Space  Cycle  Lt   Rt   Fix    Option  Option_Id
   1    'RFE'   5.00  10.17    7   'P ' 'P '  1.00    '-'     '          '

*(3)ANALYSIS OPTIONS:
*Plate Depth Frame Column_Dep_Opt(in)  Rafter_Dep_Opt(in)   Web_Stiffener   P
* Opt   Opt   Sym   Type   Min    Max   Type   Min    Max  Use Ratio Side Delta
  'N'   'N'   'N'   'T '  9.50  60.00   'T '  8.00  60.00  'N'  0.00 'Y'   'N'

*(4)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code   Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(5)DESIGN CONSTANTS:                                                    Wind
* --------------Steel_Yield(ksi  )--------------  ----Stress_Ratio----
Strength
* Web   Flg  R_Frm P_Frm T_Frm   EP    BP  C_Sec   Frame  Col  EP   BP    Factor
  50.0  50.0  36.0  36.0  46.0  50.0  50.0  55.0   1.03  1.03 1.03 1.03   1.0000

*(6)DEFLECTION LIMITS:
*                  Vert    Weak
*  Horz    Vert    Total   Axis
   60.0   180.0     0.0    60.0

*(7)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
  'I'    'Y'     'Y'   'Y'   'Y'    'N'   'N'   'Y'     'N'    'N'   'N'   'N'

*(8)SURFACE SHAPE:
*   No.    X_Coord   Y_Coord     Offset
*   Surf     (ft)      (ft)       (in)
      3     0.0000   24.0000      9.000
           70.0000   26.9167      9.000
           70.0000    0.0000      9.000

*(9)MEMBER DEPTHS:
*   Surf    Member      --Depth(in)--   No.   Interior_Depths
*    Id      Size        Start    End   Dep   Loc.(ft)  Depth(in)
      1  '--------'     12.000  30.000   0
      2  '--------'     30.000  32.000   4     20.0607   16.000
                                           30.0607   16.000
                                           40.0607   16.000
```

```
                                                    50.0607   16.000
      3  '--------'    32.000  12.000   0

*(10)MEMBER SPLICES:
*   Surf     No.   Splice  Splice
*    Id    Splice  Loc(ft)  Type
      1       0
      2       2     0.0000  'VEE'
                   30.0607  '-EE'
      3       1     0.0000  'VEE'

*(11)SEGMENT PLATES:
*   Mem  No.  Seg    Len     Flange        Plate Thickness (in)
*    Id  Seg   Id   (ft)      Width      Web    O.S.Flg   I.S.Flg
      1   2     1  10.0000     6.00    0.1790    0.2500    0.3750
                2   0.0000     6.00    0.1790    0.2500    0.3750

      2   2     3   0.0000     6.00    0.2500    0.2500    0.3750
                4  10.0000     6.00    0.1790    0.2500    0.2500

      3   1     5   0.0000     6.00    0.1790    0.3750    0.2500

      4   1     6   0.0000     6.00    0.1120    0.3750    0.2500

      5   1     7   0.0000     6.00    0.1790    0.3750    0.2500

      6   2     8  10.0000     6.00    0.1790    0.2500    0.2500
                9   0.0000     6.00    0.2500    0.2500    0.3750

      7   2    10   0.0000     8.00    0.1790    0.2500    0.5000
               11  10.0000     8.00    0.1790    0.2500    0.3750

*(12)INTERIOR COLUMNS: (ft)
* No.  Col  Col  Col    Col    Connection  Unbrace_Length  Col  Col
* Col   Id  Type Rot    Loc    Bot    Top  Major    Minor  Set  Size
   0

*(13)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

*(14)BASE ELEVATION/WALL OPTIONS:
*  Base   Frame    Open
*  Elev   Space   Height
  48.00   10.17   0.0000   .. Left  Column
  48.00   10.17   0.0000   .. Right Column

*(15)WALL GIRTS:
*Surf Girt    Girt    Girt   Girt    Girt   No.
* Id  Type    Type    Depth Project  Lap   Girt  Location(ft)
   1  'ZB' '9Z16    '  9.00   0.00   0.875   4    7.333  12.083  16.833  21.500

   3  'ZB' '9Z16    '  9.00   0.00   0.875   0

*(16)ROOF PURLINS:
*Surf Purl    Purl    Purl   Purl    Purl     No.   Peak    Set_Of  -Set_Space-
* Id  Type    Size    Depth Project  Lap    Purlin  Space   Space   Space   No.
```

```
   2  'ZB' '9Z13     '  9.00    0.00    1.875     15     0.833        2     4.615    14
                                                                             4.623     1

*(17)FLANGE BRACES:
*    Surf  No.    Flange_Brace_At
*     Id  Brace  Girt/Purlin_Number
       1     4       1   2   3   4
       2    15       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15

       3     0

*(18)SIDEWALL EXTENSIONS:
*Surf No. Ext  --------Attach_Beam---------   ---Facia/Parapet--      Load
* Id  Ext  Id  Type   Elev     Width  Slope   Elev   Height Slope     Width
   1   0
   3   0

*(19)EXTENSION LOADS:
*Ext  Dead  Collat  Live  Wind1_Coeff  Wind2_Coeff Long_Wind1 Fac/Par_Wind  Seis
*Id   psf   psf     psf   Left  Right  Left Right  Left Right  Left  Right   k

*-----------------
* < DESIGN LOADS >
*-----------------
*

*(20)BASIC LOADS:
*                                Basic  Wind
* Dead   Live   Snow Collat      Wind   Load
* psf    psf    psf   psf        psf   Ratio
  2.20  20.00  35.00   5.00     12.34  1.00

*(21)BASIC LOADS AT EAVE:
* -----Seismic-----   Weak_Axis_L   Weak_Axis_R   --Torsion--   -EW_Brace--
*  Load  SpcEP Coef   Wind   Seis   Wind   Seis   Wind   Seis   Wind   Seis
*   k     k            k      k      k      k      k      k      k      k
   0.46   1.94 0.56   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00

*(22)WIND COEFFICIENTS:
* Surf  --Wind_1---   --Wind_2---   Long_Wind_1  Surface
*  Id   Left  Right   Left  Right    Lt     Rt   Friction
     1   0.30  -0.53   0.80  -0.12  -0.63  -0.63    0.00
     2  -0.87  -0.87  -0.51  -0.51  -0.87  -0.87    0.00
     3  -0.64   0.25  -0.15   0.65  -0.63  -0.63    0.00

*(23)LONGITUDINAL BRACING LOADS:
*
* ----Wind-----   ---Seismic---
*  Horz    Vert    Horz    Vert
   0.00    0.00    0.00    0.00  .. Left  Column
   0.00    0.00    0.00    0.00  .. Right Column

*(24)DESIGN LOADS:
*          --------------------Load_Coefficients------------------
*Load            Live/  Live  --Wind_1--  -Wind_2-    Long_Wind   -Seismic--
Aux_Load
```

*No	Id	Dead	Coll	Snow	Right	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Id Coeff
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	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	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 0.00
	4	1.00	1.00	0.75	0.00	0.00	0.75	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	0.75	0.00	0.00	0.00	0.00	0.00	0 0.00
	6	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 0.00
	7	0.60	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
	8	0.60	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
	9	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
	10	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
	11	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
	12	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
	13	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
	14	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
	15	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0 0.00
	16	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0 0.00
	17	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0 0.00
	18	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0.00	0 0.00
	19	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0 0.00
	20	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0 0.00
	21	1.00	1.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0 0.00
	22	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0.00	0 0.00

*(25)DESIGN LOADS:

*				Load_Coefficients									
*Load		Live/	Live	--Wind_1--		-Wind_2-		Long_Wind		-Seismic--			Aux_Load
*No	Id	Dead	Coll	Snow	Right	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Id Coeff
0														

*(26)AUXILIARY LOADS:

```
*No.  Aux  Aux            No._Add   Add_Comb
*Aux   Id  Name            Loads    Id   Coeff
  0

*(27)ADDITIONAL LOADS: (F-k , W-k/ft, Dx,Dy,Dl-ft)
*No. Add Surf  Basic    Load       Fx        Fy        M       Dx        Dy    -Conc
*Add  Id  Id    Load    Type       W1        W2       Co       Dl1       Dl2   -Dist
  0

*(28)FLOOR BEAMS:
*  Bay   No.   Beam   Beam    Con_Type   Con_Loc    Beam Properties
*  Id   Beam     Id     Ht    Lt    Rt   Lt    Rt   Area   Ixx
    1     0

*(29)CABLES:
*  Bay   No.   Cable  Cable  Cable  Cable
*  Id   Cable    Id   Level  Type    Area
    1     0

*(30)CRANE BRACKET:
*Crane BayId Crane Crane   Beam     ----Offset----  ---Bracket----  Col_Sup Load
*No Id Lt Rt Type  Height  Depth    Left     Right  Type    Select   L   R  (k )
  0

*(31)FRAME LINES:
*
*No.
*Lines   Frame_Line
   1     1

*(32)DESIGN PLATES:
*No.   ---Plate--   --Plate_Size-  Bolt   Bolt  ---Top----  -Bottom--
*Plt   Type    Id   Width   Thick  Dia    Gage  Row  Space  Row Space
  0

*(33)SPECIAL FAB DATA
* No.  Piece  Piece
*Piece  Id     Key
   0

*(34)ENDWALL COLUMNS:
*Wall   Expand_EW     No.   Column  Column
* Id   Use  Offset  Column  Locate  Offset
   1  'Y '   4.000     3    17.500  8.000
                           35.000  8.000
                           52.500  8.000

   3  'N '   0.000     0

* Code file used was RF_IBC.03
*
*DS_RFDEP.Siz
*Surface  Span  --Required-   ----------Selected----------
*  Id      Id   Type   Span   Type   Span  #Depth  #Splice
*   1       1    W     20.0    No record selected
*   2       1    S     70.0    C     70.0     4       1
*   3       1    W     22.9    No record selected
```

STRUCTURAL CODE:
- Design Basis : WS
- Hot Rolled Steel : AISC89
- Cold Formed Steel : AISI96

BUILDING CODE:
- Wind Code : IBC
- Year : 03
- Seismic Zone : C
- Seismic Coef : 0.56

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

BASE PLATE & BOLT SIZE:

Column Base Loc.	Typ	Depth	Plate Size(in) Width	Length	Thick	Bolts(A307) Row	Diam	Gage
Left	P	12.6	6.0	13.00	0.500	2	0.750	3.00
Right	P	12.6	8.0	13.00	0.500	2	0.750	3.00

BASE REACTIONS:

Column Loc.	Max Comp- Ld	Fy(k)	Max Tens- Ld	Fy(k)	Max Shear Ld	Fx(k)	Weak Axis-- Tens	Moment
Left	1	16.2	7	-2.9	1	9.7	0.0	0.0
Right	1	16.5	8	-2.9	1	9.7	0.0	0.0

WELDS:

Base Id	Outside_Flange_To_Base Size	Typ	Shear(k/in) Calc	Allow	Inside_Flange_To_Base Size	Typ	Shear(k/in) Calc	Allow	-----Web_To_Base----- Size	Typ	Shear(k/in) Calc	Allow
Left	0.188	F1	0.25	2.78	0.188	F1	0.25	2.78	0.188	F1	0.81	2.78
Right	0.188	F1	0.18	2.78	0.188	F1	0.18	2.78	0.188	F1	0.81	2.78

Splice Id	Typ	Member Loc.	Web Depth	-Splice(in)- Width	Thick	Ten Loc	Load(k ,f-k) Id	Axl	Shr	Mom	Bolts(A325) Row	Diam	Space	Gage
1	VEE	1- 2	30.00	6.0	0.500	Top	1	10	14	148	2	0.750	3.00	3.00
						Bot	7	-2	-3	37	2	0.750	3.00	3.00
2	-EE	3- 4	16.00	6.0	0.625	Top	8	-2	0	12	2	0.750	3.00	3.00
						Bot	1	10	2	57	2	0.750	3.00	3.00
3	VEE	6- 7	32.00	8.0	0.500	Top	1	10	-14	169	2	0.750	3.00	3.00
						Bot	8	-2	3	44	2	0.750	3.00	3.00

WELDS:

Splice Id	Side	Outside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Allow	Inside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Allow	Web_To_Bep Size	Typ	Shear(k/in) Calc	Allow
1	L	0.250	F2	3.56	3.71	0.188	F2	0.80	2.78	0.188	F1	0.48	2.78
1	R	0.188	F2	2.56	2.78	0.188	F2	0.85	2.78	0.188	F1	0.48	2.78
2	L	0.250	F2	0.67	3.71	0.250	F2	2.56	3.71	0.250	F1	0.11	3.71
2	R	0.250	F2	0.71	3.71	0.250	F2	2.84	3.71	0.250	F1	0.11	3.71
3	L	0.188	F2	2.66	2.78	0.188	F2	0.92	2.78	0.188	F1	0.44	2.78
3	R	0.250	F2	2.91	3.71	0.188	F2	0.87	2.78	0.188	F1	0.44	2.78

Stiffener Yield = 50.0 (ksi)

STIFFENER SIZE:

Location	No.	Web Depth	-Stiffener_Size(in)- Width	Thick	Length
Left Col	1	30.00	3.00	0.250	30.00
Right Col	1	32.00	4.00	0.250	32.00

STIFFENER DESIGN:

Stiffener Location	Tension(k) Load	Calc	Allow	Compression(k) Load	Calc	Allow	Max UC
Left Col	7	10.6	69.0	1	42.8	66.2	0.65
Right Col	8	11.4	84.0	1	44.3	81.5	0.54

WELDS:

Stiffener Location	---Stiff_To_Flg/EP--- Size	Typ	Shear(k/in) Calc	Allow	-----Stiff_To_Web---- Size	Typ	Shear(k/in) Calc	Allow
Left Col	0.188	F1	1.77	2.78	0.125	F1	0.71	1.86
Right Col	0.188	F1	1.43	2.78	0.125	F1	0.69	1.86

Flange Brace Yield= 36.0 ksi
Girt/Purlin Yield= 55.0 ksi
Flange Brace Bolt = 0.500 (A307)

Surf Id	No Brace	Loc	Side	Part	Web Depth	Brace Dist	Force	Brace UC	Conn UC
1	1	3	1	FB	25.71	34.50	0.55	0.37	0.26
2	7	1	1	FB	28.78	34.50	0.50	0.36	0.23
		4	1	FB	17.33	22.50	0.06	0.03	0.02
		7	1	FB	16.00	22.50	0.09	0.04	0.04
		8	1	FB	16.00	22.50	0.09	0.04	0.04
		11	1	FB	16.68	22.50	0.04	0.02	0.02
		12	1	FB	21.18	22.50	0.23	0.11	0.10
		14	1	FB	30.18	34.50	0.54	0.39	0.24
3	0								

Member Id	Segment Id	----Max_Weld_Shear----- Section Id	Load Id	Shear (k/in)	-------Weld_Provided------ Size (in)	Shear (k/in)	Type	No. Side
1	1	1	1	0.67	0.188	2.78	F	1
1	2	5	1	0.32	0.188	2.78	F	1
2	3	10	1	0.31	0.188	2.78	F	1
2	4	12	1	0.29	0.125	1.86	F	1
3	5	15	1	0.33	0.188	2.78	F	1
4	6	20	1	0.15	0.188	2.78	F	1
5	7	23	1	0.38	0.188	2.78	F	1
6	8	24	1	0.32	0.125	1.86	F	1
6	9	28	1	0.31	0.188	2.78	F	1
7	10	33	1	0.37	0.188	2.78	F	1
7	11	37	1	0.68	0.188	2.78	F	1

FLANGE PLATE:(a)

Locate	--Initial-- Width (in)	Thick (in)	-Required-- Width (in)	Thick (in)
Lt Col	6.0	0.250	6.0	0.375
Rt Col	8.0	0.250	8.0	0.375

WEB PLATE:(b)

Locate	Id	------Load------ Axial (k)	Moment (f-k)	Initial Thick (in)	Required Thick (in)
Lt Col	1	10.9	148.2	0.179	0.179
Rt Col	1	9.8	169.0	0.179	0.179

(a)DS_BUILD(frame37)=1 .. see help.
(b)DS_BUILD(frame36)=1 .. see help.

FRAME:
Id = 1
Type = RF
Line Id= 1

MEMBERS:

Mem Id	Seg Id	Flange Len	Wid	Web_Depth Strt	End	Plate_Thickness Web	O-flg	I-flg	Max_UCV Id	Ld	Ucv	Max_UCO Id	Ld	Uco	Max_UCI Id	Ld	Uci
1	1	10.0	6.0	12.0	22.7	0.179	0.250	0.375	4	1	0.43	4	1	0.60	4	1	0.81
1	2	9.3	6.0	22.7	30.0	0.179	0.250	0.375	7	1	0.57	7	1	0.73	5	1	0.81
2	3	6.9	6.0	30.0	24.3	0.250	0.250	0.375	8	1	0.31	8	1	0.63	9	1	0.73
2	4	10.0	6.0	24.3	16.0	0.179	0.250	0.250	11	1	0.53	11	1	0.40	11	1	0.75
3	5	10.0	6.0	16.0	16.0	0.179	0.375	0.250	15	1	0.21	17	1	0.66	17	1	0.56
4	6	10.0	6.0	16.0	16.0	0.112	0.375	0.250	20	1	0.37	19	1	0.74	19	1	0.67
5	7	10.0	6.0	16.0	16.0	0.179	0.375	0.250	23	1	0.24	21	1	0.61	21	1	0.51
6	8	10.0	6.0	16.0	25.7	0.179	0.250	0.250	27	1	0.61	27	1	0.53	27	1	0.73
6	9	6.4	6.0	25.7	32.0	0.250	0.250	0.375	30	1	0.35	30	1	0.67	30	1	0.66
7	10	12.1	8.0	32.0	22.4	0.179	0.250	0.500	31	1	0.61	31	1	0.49	31	1	0.76
7	11	10.0	8.0	22.4	12.0	0.179	0.250	0.375	34	1	0.42	34	1	0.35	34	1	0.77

LOAD COMBINATIONS:
1 - DL+CL+LL

WEIGHTS:

Member	1	2	3	4	5	6	7

Weight (lb)	503	473	225	189	225	469	717

Total Weight (lb)

Frame Members	=	2801
Interior Col.	=	0
Conn. Plates	=	196
Base Plates	=	26
Trans Stiff	=	0
		3023

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	9.74	16.20	0.00	0.00	-9.74	16.46	0.00	0.00
2	0.98	1.99	0.00	0.00	-0.98	2.19	0.00	0.00
3	5.36	9.98	0.00	0.00	-7.07	10.71	0.00	0.00
4	7.08	10.54	0.00	0.00	-5.31	10.15	0.00	0.00
5	5.65	11.18	0.00	0.00	-7.33	11.89	0.00	0.00
6	7.44	11.73	0.00	0.00	-5.67	11.34	0.00	0.00
7	-2.69	-2.95	0.00	0.00	0.42	-2.19	0.00	0.00
8	-0.40	-2.20	0.00	0.00	2.76	-2.93	0.00	0.00
9	-2.31	-1.36	0.00	0.00	0.06	-0.62	0.00	0.00
10	0.08	-0.62	0.00	0.00	2.28	-1.35	0.00	0.00
11	-0.95	-2.60	0.00	0.00	1.04	-2.54	0.00	0.00
12	-0.95	-2.60	0.00	0.00	1.04	-2.54	0.00	0.00
13	-0.95	-2.60	0.00	0.00	1.04	-2.54	0.00	0.00
14	-0.95	-2.60	0.00	0.00	1.04	-2.54	0.00	0.00
15	0.90	2.26	0.00	0.00	-1.82	2.92	0.00	0.00
16	1.88	2.79	0.00	0.00	-0.96	2.40	0.00	0.00
17	1.25	2.26	0.00	0.00	-1.25	2.38	0.00	0.00
18	1.39	2.53	0.00	0.00	-1.39	2.66	0.00	0.00
19	2.86	5.62	0.00	0.00	-3.82	6.40	0.00	0.00
20	3.88	6.17	0.00	0.00	-2.92	5.85	0.00	0.00
21	3.22	5.63	0.00	0.00	-3.22	5.84	0.00	0.00
22	3.37	5.90	0.00	0.00	-3.37	6.12	0.00	0.00

DEFLECTIONS : (in)

Load	Lateral Defl @ Top Of Col		Vert Defl
Id	Left	Right	@ Midspan
1	0.02	0.14	-3.04
2	0.00	0.01	-0.30
3	0.22	0.30	-1.90
4	-0.26	-0.18	-1.89
5	0.24	0.32	-2.11
6	-0.25	-0.16	-2.10
7	0.28	0.26	0.54
8	-0.37	-0.39	0.55
9	0.30	0.28	0.27

10	-0.35	-0.36	0.27
11	-0.05	-0.07	0.51
12	-0.05	-0.07	0.51
13	-0.05	-0.07	0.51
14	-0.05	-0.07	0.51
15	0.22	0.23	-0.43
16	-0.21	-0.19	-0.43
17	0.00	0.02	-0.39
18	0.00	0.02	-0.43
19	0.23	0.27	-1.05
20	-0.22	-0.18	-1.05
21	0.00	0.05	-1.00
22	0.00	0.05	-1.05

DEFLECTIONS RATIO:

Load Id	Lateral Defl @ Top Of Col Left	Right	Vert Defl @ Midspan
1	14671	1843	276
2	99999	19991	2778
3	1034	873	441
4	880	1468	444
5	982	825	399
6	932	1663	400
7	820	1024	1562
8	631	686	1523
9	777	938	3164
10	666	740	3074
11	4427	3836	1635
12	4427	3836	1635
13	4427	3836	1635
14	4427	3836	1635
15	1070	1138	1933
16	1087	1371	1956
17	99999	14931	2171
18	99999	13371	1944
19	1006	972	798
20	1048	1515	802
21	51727	5674	836
22	49796	5433	800

MAX DEFLECTION:

Type	Deflect	Span/Deflect	Limit
Live Vertical	-2.39	351.	180.
Horizontal Drift	-0.37	631.	60.

ENDWALL VERTICAL DEFLECTION:

Column Location	Vertical_Up Load	Deflect	Vertical_Down Load	Deflect
17.50	8	0.44	1	1.63
35.00	8	0.55	1	3.04

52.50	7	0.35	1	1.39

VERTICAL CLEARANCE:

Location	Span	X_Coord	Y_Coord
Left_Col	249-14"	39-10"	249-14"
Right_Col	279-08"	798-06"	279-08"
Midspan	287-06"	601-04"	287-06"

HORIZONTAL CLEARANCE:

Location	Span	X_Coord1	X_Coord2
Left_Col - Right_Col	758-13"	39-10"	798-06"

.. No Warnings

```
*=============================================================================
*W28886                  Rigid Frame Design Input                 2/ 1/06 10:05am
*=============================================================================

*--------------------
* < PROGRAM CONTROL >
*--------------------
*
*(1)JOBID:
    'W28886              '

*(2)PROGRAM OPTIONS:
*Frame  Frame  Stress  Frame   No.   End_Conn  Splice
* Id    Type   Space   Space  Cycle  Lt   Rt   Fix    Option  Option_Id
   2    'RF '   5.00  20.00    7   'P ' 'P '  1.00    '-'     '          '

*(3)ANALYSIS OPTIONS:
*Plate Depth Frame Column_Dep_Opt(in)  Rafter_Dep_Opt(in)   Web_Stiffener   P
* Opt   Opt   Sym   Type   Min    Max   Type   Min    Max   Use Ratio Side Delta
  'N'   'N'   'N'   'T '  9.50  60.00   'T '  8.00  60.00  'N'  0.00 'Y'   'N'

*(4)DESIGN CODE:
*
*Design  ---Steel_Code---              ---Build---  Seismic
* Code   Cold       Hot       Country  Code   Year   Zone
  'WS'  'AISI96' 'AISC89'     '----'  'IBC '  '03'   'C  '

*(5)DESIGN CONSTANTS:                                                    Wind
* --------------Steel_Yield(ksi  )--------------  ----Stress_Ratio----
Strength
* Web   Flg  R_Frm P_Frm T_Frm   EP    BP  C_Sec   Frame  Col  EP   BP    Factor
  50.0  50.0  36.0  36.0  46.0  50.0  50.0  55.0   1.03  1.03 1.03 1.03   1.0000

*(6)DEFLECTION LIMITS:
*                 Vert    Weak
*  Horz    Vert   Total   Axis
   60.0   180.0     0.0   60.0

*(7)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
  'I'    'Y'     'Y'  'Y'   'Y'    'N'   'N'  'Y'     'N'     'N'  'N'   'N'

*(8)SURFACE SHAPE:
*   No.    X_Coord   Y_Coord     Offset
*   Surf     (ft)      (ft)       (in)
     3     0.0000   24.0000      9.000
           70.0000   26.9167      9.000
           70.0000    0.0000      9.000

*(9)MEMBER DEPTHS:
*   Surf    Member      --Depth(in)--   No.   Interior_Depths
*    Id      Size       Start    End   Dep   Loc.(ft)  Depth(in)
      1  '--------'     16.000  38.000   0
      2  '--------'     40.000  44.000   4     20.0607   26.000
                                             30.0607   26.000
                                             40.0607   26.000
```

```
                                                    50.0607   26.000
      3  '--------'     42.000  16.000    0

*(10)MEMBER SPLICES:
*   Surf     No.    Splice  Splice
*    Id    Splice  Loc(ft)  Type
       1       0
       2       2     0.0000  'VEE'
                    30.0607  '-EE'
       3       1     0.0000  'VEE'

*(11)SEGMENT PLATES:
*   Mem  No.  Seg     Len     Flange          Plate Thickness (in)
*    Id  Seg   Id    (ft)      Width      Web     O.S.Flg    I.S.Flg
       1   2     1  10.0000     6.00    0.2500     0.2500     0.5000
                 2   0.0000     6.00    0.2500     0.2500     0.6250

       2   2     3   0.0000     6.00    0.3125     0.3750     0.3750
                 4  10.0000     6.00    0.2500     0.2500     0.2500

       3   1     5   0.0000     6.00    0.1790     0.3750     0.2500

       4   1     6   0.0000     6.00    0.1790     0.3750     0.2500

       5   1     7   0.0000     6.00    0.1790     0.3750     0.2500

       6   2     8  10.0000     6.00    0.2500     0.2500     0.2500
                 9   0.0000     6.00    0.3125     0.3750     0.3750

       7   2    10   0.0000     6.00    0.2500     0.2500     0.6250
                11  10.0000     6.00    0.2500     0.2500     0.3750

*(12)INTERIOR COLUMNS: (ft)
* No.  Col  Col  Col    Col   Connection  Unbrace_Length  Col  Col
* Col   Id  Type Rot    Loc   Bot    Top  Major    Minor  Set  Size
   0

*(13)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

*(14)BASE ELEVATION/WALL OPTIONS:
*  Base   Frame    Open
*  Elev   Space   Height
  48.00   20.00   0.0000   .. Left  Column
  48.00   20.00   0.0000   .. Right Column

*(15)WALL GIRTS:
*Surf Girt    Girt     Girt   Girt    Girt   No.
* Id  Type    Type     Depth Project  Lap   Girt  Location(ft)
   1  'ZB' '9Z16    '  9.00   0.00   0.875   4    7.333  12.083  16.833  21.500

   3  'ZB' '9Z16    '  9.00   0.00   0.875   4    7.333  12.083  16.833  21.500


*(16)ROOF PURLINS:
*Surf Purl    Purl    Purl   Purl    Purl     No.   Peak    Set_Of  -Set_Space-
```

```
* Id  Type    Size     Depth Project  Lap    Purlin  Space   Space   Space   No.
   2  'ZB' '9Z15    '  9.00   0.00   1.875    15    0.833     2     4.615   14
                                                                    4.623    1

*(17)FLANGE BRACES:
*   Surf  No.   Flange_Brace_At
*    Id  Brace  Girt/Purlin_Number
      1     4      1   2   3   4
      2    15      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15

      3     4      1   2   3   4

*(18)SIDEWALL EXTENSIONS:
*Surf No. Ext  --------Attach_Beam---------   ---Facia/Parapet--      Load
* Id  Ext  Id  Type   Elev     Width  Slope   Elev   Height Slope    Width
   1   0
   3   0

*(19)EXTENSION LOADS:
*Ext  Dead  Collat  Live  Wind1_Coeff  Wind2_Coeff Long_Wind1 Fac/Par_Wind  Seis
*Id   psf   psf     psf   Left  Right  Left Right  Left Right  Left  Right   k

*-----------------
* < DESIGN LOADS >
*-----------------
*

*(20)BASIC LOADS:
*                              Basic  Wind
* Dead   Live    Snow Collat   Wind   Load
* psf    psf     psf  psf      psf    Ratio
  2.20  20.00  35.00   5.00   12.34   1.00

*(21)BASIC LOADS AT EAVE:
* -----Seismic-----   Weak_Axis_L   Weak_Axis_R   --Torsion--   -EW_Brace--
*  Load  SpcEP Coef   Wind   Seis   Wind   Seis   Wind   Seis   Wind   Seis
*   k     k            k      k      k      k      k      k      k      k
   0.79   3.32 0.56   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00

*(22)WIND COEFFICIENTS:
* Surf  --Wind_1---   --Wind_2---   Long_Wind_1  Surface
*  Id   Left  Right   Left  Right    Lt     Rt   Friction
    1   0.30  -0.53   0.80  -0.12  -0.63  -0.63    0.00
    2  -0.87  -0.87  -0.51  -0.51  -0.87  -0.87    0.00
    3  -0.64   0.25  -0.15   0.65  -0.63  -0.63    0.00

*(23)LONGITUDINAL BRACING LOADS:
*
* ----Wind-----   ---Seismic---
*  Horz    Vert    Horz    Vert
   1.59    1.42    2.97    2.66  .. Left  Column
   1.66    1.73    2.99    3.11  .. Right Column

*(24)DESIGN LOADS:
*          --------------------Load_Coefficients------------------
*Load            Live/  Live  --Wind_1--  -Wind_2-    Long_Wind   -Seismic--
Aux_Load
```

*No	Id	Dead	Coll	Snow	Right	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Id Coeff
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	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	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 0.00
	4	1.00	1.00	0.75	0.00	0.00	0.75	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	0.75	0.00	0.00	0.00	0.00	0.00	0 0.00
	6	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 0.00
	7	0.60	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
	8	0.60	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
	9	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
	10	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
	11	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
	12	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
	13	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
	14	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
	15	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0 0.00
	16	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0 0.00
	17	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0 0.00
	18	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0.00	0 0.00
	19	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0 0.00
	20	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0 0.00
	21	1.00	1.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0 0.00
	22	1.07	1.07	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.05	0.00	0 0.00

*(25)DESIGN LOADS:

*				Load_Coefficients									
*Load		Live/	Live	--Wind_1--		-Wind_2-		Long_Wind		-Seismic--			Aux_Load
*No	Id	Dead	Coll	Snow	Right	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Id Coeff
														0

*(26)AUXILIARY LOADS:

```
*No.  Aux  Aux            No._Add   Add_Comb
*Aux   Id  Name           Loads   Id   Coeff
  0

*(27)ADDITIONAL LOADS: (F-k , W-k/ft, Dx,Dy,Dl-ft)
*No. Add Surf  Basic    Load       Fx       Fy        M       Dx       Dy   -Conc
*Add  Id  Id    Load    Type       W1       W2       Co       Dl1      Dl2  -Dist
  0

*(28)FLOOR BEAMS:
*  Bay   No.   Beam   Beam    Con_Type   Con_Loc    Beam Properties
*  Id   Beam     Id     Ht    Lt    Rt   Lt    Rt   Area   Ixx
    1     0

*(29)CABLES:
*  Bay   No.   Cable  Cable  Cable  Cable
*  Id   Cable    Id   Level  Type    Area
    1     0

*(30)CRANE BRACKET:
*Crane BayId Crane Crane   Beam     ----Offset----  ---Bracket----  Col_Sup Load
*No Id Lt Rt Type  Height  Depth    Left     Right  Type    Select   L   R  (k )
  0

*(31)FRAME LINES:
*
*No.
*Lines   Frame_Line
  13     2  3  4  5  6  7  8  9 10 11 12 13 14

*(32)DESIGN PLATES:
*No.   ---Plate--   --Plate_Size-  Bolt   Bolt  ---Top----  -Bottom--
*Plt    Type   Id   Width   Thick  Dia    Gage  Row  Space  Row Space
  0

*(33)SPECIAL FAB DATA
* No.  Piece  Piece
*Piece  Id     Key
   0

*(34)ENDWALL COLUMNS:
*Wall   Expand_EW     No.   Column  Column
* Id   Use  Offset  Column  Locate  Offset
   1  'Y '   4.000     0
   3  'N '   0.000     0

* Code file used was RF_IBC.03
*
*DS_RFDEP.Siz
*Surface  Span  --Required-   ----------Selected----------
*  Id      Id   Type   Span   Type   Span  #Depth  #Splice
*   1       1    W     20.0    No record selected
*   2       1    S     70.0    C     70.0     4       1
*   3       1    W     22.9    No record selected
```

==========

STRUCTURAL CODE:
- Design Basis : WS
- Hot Rolled Steel : AISC89
- Cold Formed Steel : AISI96

BUILDING CODE:
- Wind Code : IBC
- Year : 03
- Seismic Zone : C
- Seismic Coef : 0.56

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

BASE PLATE & BOLT SIZE:

Column Base Loc.	Typ	Depth	Plate Size(in) Width	Length	Thick	Bolts(A307) Row	Diam	Gage
Left	P	16.8	6.0	17.00	0.500	3	0.750	3.00
Right	P	16.6	6.0	17.00	0.500	3	0.750	3.00

BASE REACTIONS:

Column Loc.	Max Comp Ld	Max Comp Fy(k)	Max Tens Ld	Max Tens Fy(k)	Max Shear Ld	Max Shear Fx(k)	Weak Axis Tens	Weak Axis Moment
Left	1	31.3	11	-6.9	1	18.5	0.0	0.0
Right	1	31.5	11	-7.2	1	18.5	0.0	0.0

WELDS:

Base Id	Outside Flange To Base Size	Typ	Shear(k/in) Calc	Allow	Inside Flange To Base Size	Typ	Shear(k/in) Calc	Allow	Web To Base Size	Typ	Shear(k/in) Calc	Allow
Left	0.188	F1	0.57	2.78	0.188	F1	0.57	2.78	0.188	F1	1.16	2.78
Right	0.188	F1	0.60	2.78	0.188	F1	0.60	2.78	0.188	F1	1.16	2.78

Splice Id	Typ	Member Loc.	Web Depth	-Splice(in)- Width	Thick	Ten Loc	Id	---Load(k ,f-k)-- Axl	Shr	Mom	----Bolts(A325)----- Row	Diam	Space	Gage
1	VEE	1- 2	40.00	6.0	0.625	Top	1	19	27	263	2	0.750	3.00	3.00
						Bot	7	-4	-6	71	2	0.750	3.00	3.00
2	-EE	3- 4	26.00	6.0	0.625	Top	8	-4	0	27	2	0.750	3.00	3.00
						Bot	1	19	4	118	2	0.750	3.00	3.00
3	VEE	6- 7	44.00	6.0	0.625	Top	1	19	-27	294	2	0.750	3.00	3.00
						Bot	8	-4	6	82	2	0.750	3.00	3.00

WELDS:

Splice Id	Side	Outside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Allow	Inside_Flange_To_Bep Size	Typ	Shear(k/in) Calc	Allow	-----Web_To_Bep------ Size	Typ	Shear(k/in) Calc	Allow
1	L	0.313	F2	4.12	4.64	0.250	F2	0.89	3.71	0.250	F1	0.68	3.71
1	R	0.250	F2	3.44	3.71	0.250	F2	0.92	3.71	0.250	F1	0.68	3.71
2	L	0.250	F2	0.82	3.71	0.250	F2	2.85	3.71	0.250	F1	0.14	3.71
2	R	0.250	F2	0.82	3.71	0.250	F2	2.85	3.71	0.250	F1	0.14	3.71
3	L	0.250	F2	3.34	3.71	0.250	F2	0.93	3.71	0.250	F1	0.61	3.71
3	R	0.313	F2	4.04	4.64	0.250	F2	0.89	3.71	0.250	F1	0.61	3.71

Stiffener Yield = 50.0 (ksi)

STIFFENER SIZE:

----Stiffener--- Location	No.	Web Depth	-Stiffener_Size(in)- Width	Thick	Length
Left Col	1	38.00	3.00	0.250	38.00
Right Col	1	42.00	3.00	0.250	42.00

STIFFENER DESIGN:

Stiffener Location	---Tension(k) Load	Calc	Allow	-Compression(k) Load	Calc	Allow	Max UC
Left Col	7	11.7	91.9	1	44.0	86.0	0.51
Right Col	8	11.6	91.9	1	42.4	85.2	0.50

WELDS:

Stiffener	---Stiff_To_Flg/EP--- Shear(k/in)	-----Stiff_To_Web---- Shear(k/in)

Location	Size	Typ	Calc	Allow	Size	Typ	Calc	Allow
Left Col	0.250	F1	1.95	3.71	0.125	F1	0.58	1.86
Right Col	0.250	F1	1.94	3.71	0.125	F1	0.50	1.86

Flange Brace Yield= 36.0 ksi
Girt/Purlin Yield= 55.0 ksi
Flange Brace Bolt = 0.500 (A307)

Surf Id	No Brace	Loc	Side	Part	Web Depth	Brace Dist	Force	Brace UC	Conn UC
1	1	3	2	FB	33.59	34.50	0.47	0.37	0.22
2	6	1	2	FB	39.28	34.50	0.31	0.27	0.14
		4	2	FB	27.38	34.50	0.03	0.02	0.01
		7	2	FB	26.00	22.50	0.06	0.03	0.03
		10	2	FB	26.00	22.50	0.04	0.02	0.02
		13	2	FB	37.50	34.50	0.19	0.16	0.09
		14	2	FB	42.85	46.50	0.26	0.30	0.12
3	1	3	2	FB	34.25	34.50	0.46	0.36	0.22

		Max Weld Shear			Weld Provided			
Member Id	Segment Id	Section Id	Load Id	Shear (k/in)	Size (in)	Shear (k/in)	Type	No. Side
1	1	1	1	0.93	0.188	2.78	F	1
1	2	5	1	0.48	0.250	3.71	F	1
2	3	8	1	0.33	0.188	2.78	F	1
2	4	11	1	0.30	0.125	1.86	F	1
3	5	15	1	0.37	0.188	2.78	F	1
4	6	20	1	0.16	0.188	2.78	F	1
5	7	23	1	0.42	0.188	2.78	F	1
6	8	25	1	0.29	0.125	1.86	F	1
6	9	28	1	0.31	0.188	2.78	F	1
7	10	33	1	0.46	0.250	3.71	F	1
7	11	37	1	0.84	0.188	2.78	F	1

FLANGE PLATE:(a)

--Initial-- -Required--

Locate	Width (in)	Thick (in)	Width (in)	Thick (in)
Lt Col	6.0	0.250	6.0	0.500
Rt Col	6.0	0.250	6.0	0.500

WEB PLATE:(b)

Locate	Id	Load Axial (k)	Load Moment (f-k)	Initial Thick (in)	Required Thick (in)
Lt Col	1	20.7	262.8	0.250	0.250
Rt Col	1	18.8	293.8	0.250	0.250

(a)DS_BUILD(frame37)=1 .. see help.
(b)DS_BUILD(frame36)=1 .. see help.

FRAME:
Id = 2
Type = RF
Line Id= 2 3 4 5 6 7 8 9 10 11 12 13 14

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
1	1	10.0	6.0	16.0	29.7	0.250	0.250	0.500	4	1	0.39	4	1	0.64	4	1	0.87
1	2	9.3	6.0	29.7	38.0	0.250	0.250	0.625	7	1	0.50	7	1	0.73	5	1	0.75
2	3	6.3	6.0	40.0	34.6	0.313	0.375	0.375	8	1	0.40	8	1	0.56	9	1	0.84
2	4	10.0	6.0	34.6	26.0	0.250	0.250	0.250	11	1	0.54	11	1	0.38	11	1	0.88
3	5	10.0	6.0	26.0	26.0	0.179	0.375	0.250	15	1	0.66	17	1	0.73	17	1	0.64
4	6	10.0	6.0	26.0	26.0	0.179	0.375	0.250	20	1	0.28	19	1	0.76	19	1	0.69
5	7	10.0	6.0	26.0	26.0	0.179	0.375	0.250	23	1	0.76	21	1	0.68	21	1	0.59
6	8	10.0	6.0	26.0	37.6	0.250	0.250	0.250	27	1	0.63	27	1	0.48	27	1	0.69
6	9	5.5	6.0	37.6	44.0	0.313	0.375	0.375	30	1	0.46	30	1	0.55	30	1	0.63
7	10	12.1	6.0	42.0	30.2	0.250	0.250	0.625	31	1	0.54	31	1	0.71	33	1	0.73
7	11	10.0	6.0	30.2	16.0	0.250	0.250	0.375	34	1	0.39	34	1	0.63	34	1	1.02

LOAD COMBINATIONS:
1 - DL+CL+LL

WEIGHTS:

Member	1	2	3	4	5	6	7
Weight (lb)	770	706	286	286	286	698	907

Total Weight (lb)

Frame Members =	3938
Interior Col. =	0
Conn. Plates =	274
Base Plates =	29
Trans Stiff =	0
	4242

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	18.54	31.27	0.00	0.00	-18.54	31.50	0.00	0.00
2	1.63	3.31	0.00	0.00	-1.63	3.45	0.00	0.00
3	10.05	19.03	0.00	0.00	-13.40	20.21	0.00	0.00
4	13.46	20.14	0.00	0.00	-9.97	19.11	0.00	0.00
5	10.61	21.38	0.00	0.00	-13.94	22.52	0.00	0.00
6	14.16	22.47	0.00	0.00	-10.68	21.43	0.00	0.00
7	-5.42	-6.17	0.00	0.00	0.94	-4.80	0.00	0.00
8	-0.87	-4.70	0.00	0.00	5.53	-6.27	0.00	0.00
9	-4.66	-3.04	0.00	0.00	0.23	-1.72	0.00	0.00
10	0.06	-1.59	0.00	0.00	4.57	-3.17	0.00	0.00
11	-2.01	-6.90	1.59	0.00	2.18	-7.23	1.66	0.00
12	-1.93	-4.05	0.00	0.00	2.10	-3.78	0.00	0.00
13	-2.01	-6.90	1.59	0.00	2.18	-7.23	1.66	0.00
14	-1.93	-4.05	0.00	0.00	2.10	-3.78	0.00	0.00
15	1.67	4.12	0.00	0.00	-3.25	5.10	0.00	0.00
16	3.36	5.01	0.00	0.00	-1.78	4.22	0.00	0.00
17	2.25	1.43	2.97	0.00	-2.25	1.06	2.99	0.00
18	2.66	7.24	0.00	0.00	-2.66	7.75	0.00	0.00
19	5.35	10.49	0.00	0.00	-7.00	11.59	0.00	0.00
20	7.12	11.42	0.00	0.00	-5.46	10.66	0.00	0.00
21	5.97	7.68	3.12	0.00	-5.97	7.37	3.14	0.00
22	6.39	13.76	0.00	0.00	-6.39	14.37	0.00	0.00

DEFLECTIONS : (in)

Load	Lateral Defl @ Top Of Col		Vert Defl
Id	Left	Right	@ Midspan
1	0.08	0.16	-2.16
2	0.01	0.01	-0.19
3	0.20	0.26	-1.35
4	-0.14	-0.09	-1.33
5	0.22	0.27	-1.49
6	-0.13	-0.07	-1.48
7	0.19	0.18	0.40
8	-0.27	-0.29	0.42
9	0.21	0.20	0.20
10	-0.25	-0.26	0.22
11	-0.05	-0.05	0.38
12	-0.05	-0.06	0.38
13	-0.05	-0.05	0.38

14	-0.05	-0.06	0.38
15	0.14	0.15	-0.30
16	-0.12	-0.11	-0.29
17	0.01	0.02	-0.26
18	0.01	0.02	-0.29
19	0.16	0.19	-0.73
20	-0.11	-0.08	-0.72
21	0.03	0.05	-0.69
22	0.02	0.05	-0.73

DEFLECTIONS RATIO:

Load Id	Lateral Defl @ Top Of Col Left	Right	Vert Defl @ Midspan
1	2879	1635	388
2	35204	19455	4466
3	1128	1033	623
4	1611	2901	632
5	1067	981	563
6	1784	3544	569
7	1206	1494	2117
8	847	925	1992
9	1116	1356	4113
10	908	1002	3747
11	5015	4861	2189
12	4836	4697	2193
13	5015	4861	2189
14	4836	4697	2193
15	1660	1771	2841
16	1957	2488	2928
17	24405	13721	3220
18	29119	14276	2869
19	1429	1406	1153
20	2129	3290	1167
21	9080	5129	1211
22	9715	5220	1157

MAX DEFLECTION:

Type	Deflect	Span/Deflect	Limit
Live Vertical	-1.73	487.	180.
Horizontal Drift	-0.27	847.	60.

VERTICAL CLEARANCE:

Location	Span	X_Coord	Y_Coord
Left_Col	240-03"	47-09"	240-03"

Right_Col	267-01"	788-07"	267-01"
Midspan	277-07"	601-11"	277-07"

HORIZONTAL CLEARANCE:

Location	Span	X_Coord1	X_Coord2
Left_Col - Right_Col	740-13"	47-09"	788-07"

.. No Warnings