



LETTER OF TRANSMITTAL

Date: 04/02/2012

Attn: RJ WILLIAMS
Company: GAMBLE & ASSOCIATES CONST
Address: 8588 US HWY 90
LIVE OAK, FL 32060
Phone: 386 364-1234



Job Number: 2258274

Project Name: BAIRD TREE CO.
Jobsite: LAKE CITY, FL

Contact: BARBER, WESLEY K.
Phone #: 877-479-5967
Email: wbarber@ncilp.com

The enclosed package will include drawings and/or documentation as listed below:

Quantity		Description
With Seal	Without Seal	
3	0	C1,F1-3,E1-6,NS1-3,For Erector Installation
		Shippers 1-20
		Bldg A
		2 copies of drawings delivered with truck
		Ultradek Roofing Manual
		Installation Manual
1	0	Letter Of Certification
		Bldg A
2	0	Set(s) Of Calculations
		Bldg A

If you have any questions or fail to receive any of the above, please contact us immediately.

Drawing Issue: 0
Ship Code: FedEx SOovernight

Act Eng: HORNER BENJAM

Phm
4/2/12

rm



March 30, 2012

GAMBLE & ASSOCIATES CONST
8588 US HWY 90
LIVE OAK, FL, 32060

Job Number: 2258274
Jobsite: LAKE CITY, FL
Building Size: 50x50x16

Project Name: BAIRD TREE CO.

This is to certify that the above referenced building and its component parts have been designed and fabricated by A&S Building Systems at its IAS accredited facility. It has been designed in accordance with the order documents, in general accordance with the 13th Edition of the AISC "Manual of Steel Construction" and the 2007 Edition of the AISI "North American Specification for the Design of Cold-Formed Steel Structural Members" and with good engineering practice for the following load parameters. All welding will be per the appropriate American Welding Society (AWS) codes.

Governing Code for the application of design loads: FBC 10

Importance factors: Snow: 1.00 Seismic: 1.00
Dead Load: Weight of the metal building structure only as supplied by A&S Building Systems
Collateral Load: 1 psf
Roof Live Load: 20 psf with Tributary Reduction Allowed
Ground Snow Load: 0 psf
Flat Roof Snow Load: 0 psf
Ultimate Wind Speed: 120 mph Exposure Classification B
Seismic Coefficients: $S_s = 0.1390$ g $S_1 = 0.0600$ g
Site Class: d Seismic Design Category: b

The undersigned is not the Engineer-of-Record for the overall project. This Letter of Certification applies solely to the steel building and its component parts as furnished by A&S Building Systems and specifically excludes any foundation, concrete, masonry and general construction work.

Sincerely,



Real People. Real Products. Real Solutions.

Phone: 865-426-2141 Fax: 865-426-2011 - 1880 Hwy 116 Caryville, Tennessee 37714

STRUCTURAL DESIGN CALCULATIONS

FOR JOB # 2258274

BUYER	GAMBLE & ASSOCIATES	PROJECT	BAIRD TREE CO.
LOCATION	LAKE CITY, FL 32055	COUNTY	COLUMBIA

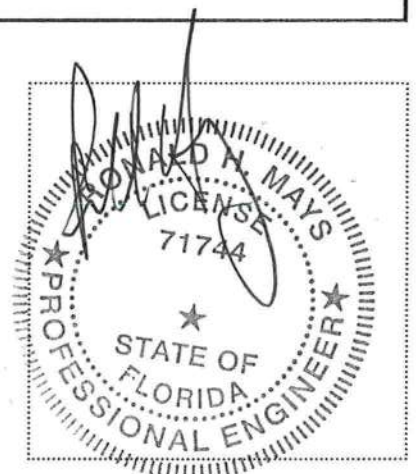
BUILDING DESCRIPTION

BUILDING	A	
FRAME TYPE	GABLE SYMMETRICAL (CS)	
WIDTH	50'-0"	
LENGTH	50'-0"	
EAVE HEIGHT	16'-0"	
SLOPE	1:12	
BAY SPACING	2 @ 25'-0"	

BUILDING LOADS

BUILDING CODE	FBC 2010					OCCUPANCY: II		
DEAD LOAD	2.5	psf						
LIVE LOAD	Primaries:	12.0	psf	Secondaries:		20.0	psf	
COLLATERAL LOAD	1.0	psf						
GROUND SNOW LOAD	0.0	psf	C _e :	1.0	C _i :	1.0	I _s :	1.0
ROOF SNOW LOAD	0.0	psf						
WIND LOAD	120	mph	Exposure: B				Risk Category	II
SEISMIC LOAD	Site Class:	D	S _S :	0.1390	S _{DS} :	0.1483	I _e :	1.0
			S ₁ :	0.0600	S _{D1} :	0.0960		
SPECIAL LOADS	NONE							

TITLE	PAGE
Load Determination & Reactions	



APR 02 2012

A&S BUILDING SYSTEMS
1880 HWY. 116
CARYVILLE , TN 37714

STRUCTURAL DESIGN CALCULATIONS
FOR
GAMBLE & ASSOCIATES
8588 US HWY 90 WEST
LIVE OAK, FL 32060

BAIRD TREE CO.
1290 MIXSON ROAD
LAKE CITY, FL 32055
3210-2258274

BUILDING DATA
Width (ft) = 50.0
Length (ft) = 50.0
Eave Height (ft) = 16.0/ 16.0
Roof Slope (rise/12) = 3.00/ 3.00
Dead Load (psf) = 2.5
Roof Live Load (psf) = 20.0
Frame Live Load (psf) = 12.0
Collat. Load (psf) = 1.0
Wind Speed(mph) = 120.0
Wind Code = FBC 2010
Closed/Open = C
Exposure = B
Internal Wind Coeff = -0.18, +0.18
Risk Category - Wind = II
Importance - Seismic = 1.00
Seismic Design Category= B
Seismic Coeff (Fa*Ss) = 0.22

Designer = -----

3/21/12

(ALL WIND REACTIONS CONTAINED HEREWITHIN WERE OBTAINED FROM FBC 2007 PROCEDURES.
THESE LOADS HAVE BEEN DETERMINED TO BE EQUIVALENT TO OR EXCEED REQUIRED LOADS,
AS DETERMINED PER FBC 2007.)

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3210-2258274	Design Loads For Building Components:	3/21/12	3:59pm
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FRONT SIDEWALL:

BASIC LOADS:

			-----Edge_Strip_Ratio-----			
Basic	Wind_Load_Ratio		Zone			Col/
Wind	Deflect	Factor	Width	Girt	Panel	Jamb
14.9	1.00	1.00	5.00	1.07	1.23	1.07

WIND PRESSURE/SUCTION:

Wind	Wind	Wind	
Press	Suct	Long	
12.5	-13.7		.. Girt/Header
15.5	-16.9		.. Panel
12.5	-13.7		.. Jamb
19.8	-13.2		.. Parapet

BACK SIDEWALL:

BASIC LOADS:

			-----Edge_Strip_Ratio-----			
Basic	Wind_Load_Ratio		Zone			Col/
Wind	Deflect	Factor	Width	Girt	Panel	Jamb
13.2	1.00	1.00	5.00	1.07	1.23	1.07

WIND PRESSURE/SUCTION:

Wind	Wind	Wind	
Press	Suct	Long	
12.5	-13.7		.. Girt/Header
15.5	-16.9		.. Panel
12.5	-13.7		.. Jamb
19.8	-13.2		.. Parapet

LEFT ENDWALL:

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
2.5	1.0	20.0	0.0	13.2	1.00	1.00	5.00	1.07	1.23	1.07

BASIC LOADS AT EAVE:

Seis	---Torsion---	
Load	Wind	Seismic
0.31	0.00	0.00

WIND PRESSURE/SUCTION:

Wind	Wind	
Press	Suct	
12.5	-13.7	.. Column
12.5	-13.7	.. Girt/Header
12.5	-13.7	.. Jamb
15.5	-16.9	.. Panel
19.8	-13.2	.. Parapet

WIND COEFFICIENTS:

Column/Rafter		Rafter		Column/Brace		Long	Surface
Surf	Wind_1	Wind_2	Wind_2	Wind_2	Long	Surface	
Id	Left	Right	Left	Right	Left	Right	Wind Friction
1	0.00	0.00	0.00	0.00	0.67	-0.99	0.00 0.00

2	-1.15	-0.75	-0.79	-0.39	-1.15	-0.75	-0.87	0.00
3	-0.75	-1.15	-0.39	-0.79	-0.75	-1.15	-0.87	0.00
4	0.00	0.00	0.00	0.00	-0.99	0.67	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load		---Live---				--Add_Snow--		Wind_1		Wind_2		Long_Wind		Column	Wind	Long	Tran	Aux_Load			
No.	Id	Dead	Coll	Roof	Floor	Snow	Drift	Slide	Left	Right	Left	Right	1	2	Press	Suct	Seis	Seis	Id	Coef	
28	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	2	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	3	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	4	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	5	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	6	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	7	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	8	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	9	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	10	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	11	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	12	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00	
	13	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0	0.00	
	14	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00	
	15	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0	0.00	
	16	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0	0.00	
	17	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00	
	18	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00	
	19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00	
	20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0	0.00	
	21	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	22	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	23	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	24	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	25	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	26	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	27	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	28	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00

RAFTER DESIGN LOADS:

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

AUXILIARY LOADS:

No.	Aux	Aux	No.	Add_Load
Aux	Id	Name	Load	Id Coeff
4	1	LWIND1_L	1	1 1.00
	2	LWIND1_R	1	2 1.00
	3	LWIND2_L	1	1 1.00
	4	LWIND2_R	1	2 1.00

ADDITIONAL LOADS:

No.	Add	Loc	Basic	Load	Fx	Fy	Mom	X	Y	.. Conc
Add	Id	Id	Load	Type	W1	W2	Co	D11	D12	.. Dist
6	1	2	U_WIND	D	0.09	0.09	0.00	0.00	10.00	

2	3	U_WIND	D	0.09	0.09	0.00	15.77	25.77
3	2	WINDL1	D	-0.10	-0.10	0.00	25.00	25.77
4	2	WINDL2	D	-0.10	-0.10	0.00	25.00	25.77
5	3	WINDR1	D	-0.10	-0.10	0.00	0.00	0.77
6	3	WINDR2	D	-0.10	-0.10	0.00	0.00	0.77

RIGHT ENDWALL:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Zone	Edge_Strip_Ratio	Col/Jamb
2.5	1.0	20.0	0.0	13.2	1.00 1.00	5.00	1.07 1.23	1.07

BASIC LOADS AT EAVE:

Seis Load	Wind	Seismic
0.31	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
12.5	-13.7	.. Column
12.5	-13.7	.. Girt/Header
12.5	-13.7	.. Jamb
15.5	-16.9	.. Panel
19.8	-13.2	.. Parapet

WIND COEFFICIENTS:

Surf Id	Column/Rafter Wind_1 Left Right	Rafter Wind_2 Left Right	Column/Brace Wind_2 Left Right	Long Wind	Surface Friction
1	0.00 0.00	0.00 0.00	0.67 -0.99	0.00	0.00
2	-1.15 -0.75	-0.79 -0.39	-1.15 -0.75	-0.87	0.00
3	-0.75 -1.15	-0.39 -0.79	-0.75 -1.15	-0.87	0.00
4	0.00 0.00	0.00 0.00	-0.99 0.67	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

No.	Id	Dead	Coll	Roof	Floor	Snow	Drift	Slide	Wind_1 Left	Wind_1 Right	Wind_2 Left	Wind_2 Right	Long_Wind 1	Long_Wind 2	Column_Wind Press	Column_Wind Suct	Long Seis	Tran Seis	Aux_Load Id	Coef
28	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	6	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	8	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	9	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	10	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	11	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	12	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0	0.00
	13	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0	0.00
	14	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00
	15	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	16	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0	0.00
	17	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	18	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0	0.00
	21	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	22	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00
	23	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	24	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	25	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	26	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0	0.00
	27	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	28	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0	0.00

RAFTER DESIGN LOADS:

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

AUXILIARY LOADS:

No.	Aux	Aux	No.	Add_Load	
Aux	Id	Name	Load	Id	Coeff
4	1	LWIND1_L	1	1	1.00
	2	LWIND1_R	1	2	1.00
	3	LWIND2_L	1	1	1.00
	4	LWIND2_R	1	2	1.00

ADDITIONAL LOADS:

No.	Add	Loc	Basic	Load	Fx	Fy	Mom	X	Y	.. Conc
Add	Id	Id	Load	Type	W1	W2	Co	D11	D12	.. Dist
6	1	2	U_WIND	D	0.09	0.09	0.00	0.00	10.00	
	2	3	U_WIND	D	0.09	0.09	0.00	15.77	25.77	
	3	2	WINDL1	D	-0.10	-0.10	0.00	25.00	25.77	
	4	2	WINDL2	D	-0.10	-0.10	0.00	25.00	25.77	
	5	3	WINDR1	D	-0.10	-0.10	0.00	0.00	0.77	
	6	3	WINDR2	D	-0.10	-0.10	0.00	0.00	0.77	

ROOFDES:

BASIC LOADS:

Dead	Collat	Live	Snow	Basic	Wind_Load_Ratio	Surface	Seis	%
Load	Load	Load	Load	Wind	Deflect	Factor	Friction	Factor Snow
2.5	1.0	20.0	0.0	13.2	1.00	1.00	0.00	1.000 0.00

WIND PRESSURE/SUCTION:

Wind	Wind	Wind	
Press	Suct	Suct_Roof	
10.0	-12.9		.. Purlins
0.0	-29.0		.. Gable Extensions
10.0	-14.2		.. Panels
5.3	-3.8	-9.1	.. Long Bracing, Building
8.0	-5.7		.. Long Bracing, Wall Edge Zone
19.8	-13.2	10.5	.. Long Bracing, Facia/Parapet

EDGE & CORNER ZONE WIND:

Wind Surf						--Purlin--		---Panel---	
Id	Id	Zone	Id	Width	Length	Press	Suct	Press	Suct
1	2	9	1	0.00	0.00	1.00	1.00	1.00	1.00
			3	0.00	5.00	1.00	1.41	1.00	1.73
			4	5.00	0.00	1.00	1.41	1.00	1.73
			5	0.00	5.00	1.00	1.41	1.00	1.73
			6	5.00	0.00	1.00	1.41	1.00	1.73
			7	5.00	5.00	1.00	2.22	1.00	2.57
			8	5.00	5.00	1.00	2.22	1.00	2.57
			9	5.00	5.00	1.00	2.22	1.00	2.57
			10	5.00	5.00	1.00	2.22	1.00	2.57
	3	9	1	0.00	0.00	1.00	1.00	1.00	1.00
			3	0.00	5.00	1.00	1.41	1.00	1.73

			4	5.00	0.00	1.00	1.41	1.00	1.73
			5	0.00	5.00	1.00	1.41	1.00	1.73
			6	5.00	0.00	1.00	1.41	1.00	1.73
			7	5.00	5.00	1.00	2.22	1.00	2.57
			8	5.00	5.00	1.00	2.22	1.00	2.57
			9	5.00	5.00	1.00	2.22	1.00	2.57
			10	5.00	5.00	1.00	2.22	1.00	2.57
2	2	1	1	0.00	0.00	1.00	1.00	1.00	1.00
	3	1	1	0.00	0.00	1.00	1.00	1.00	1.00

EDGE & CORNER ZONE WIND: LONGITUDINAL

Wind	Surf	No.	Zone	Purlin
Id	Id	Zone	Id	Suct
3	2	1	1	0.00
	3	1	1	0.00

PURLIN DESIGN LOADS:

Surf	No.	Load					--Add_Snow--		Wind	Wind	Aux_Load	
Id	Loads	Id	Dead	Collat	Live	Snow	Drift	Slide	Press	Suct	Id	Coef
2	9	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
		2	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
		3	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00
		4	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0	0.00
		5	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
		6	1.00	1.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
		7	1.00	1.00	0.00	0.75	0.75	0.00	0.75	0.00	0	0.00
		8	1.00	1.00	0.00	0.75	0.00	0.75	0.75	0.00	0	0.00
		9	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
3	9	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
		2	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00
		3	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0	0.00
		4	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0	0.00
		5	1.00	1.00	0.75	0.00	0.00	0.00	0.75	0.00	0	0.00
		6	1.00	1.00	0.00	0.75	0.00	0.00	0.75	0.00	0	0.00
		7	1.00	1.00	0.00	0.75	0.75	0.00	0.75	0.00	0	0.00
		8	1.00	1.00	0.00	0.75	0.00	0.75	0.75	0.00	0	0.00
		9	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00

BRACING DESIGN LOADS:

No.	Load					--Add_Snow--		Wind	Wind	Seis	Aux_Load	
Loads	Id	Dead	Collat	Live	Snow	Drift	Slide	Press	Suct	Load	Id	Coef
14	1	1.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	2	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0	0.00
	4	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0	0.00
	6	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0	0.00
	7	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0	0.00
	8	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	9	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00
	10	1.02	1.02	0.75	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	11	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	12	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	13	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0	0.00
	14	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0	0.00

RIGID FRAME #1:

BASIC LOADS:

Dead	Live	Snow	Collateral	Basic Wind	Defl Ratio	Temperature Change
2.5	12.0	0.0	1.0	13.2	1.00	0

BASIC LOADS AT EAVE:

Seismic Load	Weak Axis_L Wind	Weak Axis_R Seis	Weak Axis_R Wind	Seis	--Torsion-- Wind	Seis	--EW_Brace-- Wind	Seis
0.25	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	Friction
1	0.40	-0.75	0.89	-0.26	-0.63 -0.27 0.00

2	-0.87	-0.61	-0.51	-0.25	-0.87	-0.51	0.00
3	-0.61	-0.87	-0.25	-0.51	-0.87	-0.51	0.00
4	-0.75	0.40	-0.26	0.89	-0.63	-0.27	0.00

DESIGN LOADS:

-Load-				---Live---			--Add_Snow--			--Wind_1-		--Wind_2-		Long_Wind		--Seismic--			Aux_Load	
No.	Id	Dead	Coll	Roof	Floor	Snow	Drift	Slide	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Temp	Id	Coef	
54	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	2	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	3	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	4	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	5	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	6	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	7	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	8	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	10	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
	11	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	12	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	13	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	14	1.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	15	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	16	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	17	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	18	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	19	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	20	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	21	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	22	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	23	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	24	1.00	1.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	25	1.00	1.00	0.00	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	26	1.00	1.00	0.00	0.00	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0	0.00
	27	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	28	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	29	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	31	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1	1.00
	32	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2	1.00
	33	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00-1.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	34	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00-1.00	0.00	0.00	0.00	0.00	0.00	2	1.00
	35	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	3	1.00
	36	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	4	1.00
	37	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00-1.00	0.00	0.00	0.00	0.00	3	1.00
	38	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00-1.00	0.00	0.00	0.00	0.00	4	1.00
	39	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0	0.00
	40	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	0	0.00
	41	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0	0.00
	42	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	0	0.00
	43	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0	0.00
	44	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	0	0.00
	45	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0	0.00
	46	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	0	0.00
	47	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0	0.00
	48	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	0.00	0	0.00
	49	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0	0.00
	50	1.01	1.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	0.00	0	0.00
	51	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0	0.00
	52	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.52	0.00	0.00	0	0.00
	53	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0	0.00
	54	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	0.00	0.00	0	0.00

AUXILIARY LOADS:

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

ADDITIONAL LOADS:

No.	Add	Surf	Basic	Load	Fx	Fy	Mom	Dx	Dy	..	Conc
-----	-----	------	-------	------	----	----	-----	----	----	----	------

Add	Id	Id	Type	Type	W1	W2	Co	D11	D12	.. Dist
6	1	2	U_WIND	D	0.16	0.16	0.000	0.00	10.00	
	2	3	U_WIND	D	0.16	0.16	0.000	15.77	25.77	
	3	2	WINDL1	D	-0.10	-0.10	0.000	25.00	25.77	
	4	2	WINDL2	D	-0.10	-0.10	0.000	25.00	25.77	
	5	3	WINDR1	D	-0.10	-0.10	0.000	0.00	0.77	
	6	3	WINDR2	D	-0.10	-0.10	0.000	0.00	0.77	

3210-2258274 Reactions, Anchor Bolts, & Base Plates: 3/21/12 3:59pm

-----Foundation Loads(k)-----												
Frame	Col	Max_Pos_Val			Max_Neg_Val			Anc. Bolt		Base Plate		
Line	Line	Id	Horz	Vert	Id	Horz	Vert	No.	Diam	Width	Len	Thick
1	D	6	0.0	-6.2	6	0.0	-6.2	2	0.625	7.00	10.00	0.250
		1	0.0	4.3								
1	C	7	2.2	-4.7	8	-2.0	-3.0	2	0.625	7.00	10.00	0.250
		1	0.0	7.8	7	2.2	-4.7					
1	B	7	2.2	-3.4	8	-2.0	-3.0	2	0.625	7.00	10.00	0.250
		1	0.0	7.8	7	2.2	-3.4					
1	A	7	0.0	-3.7	7	0.0	-3.7	2	0.625	7.00	10.00	0.250
		1	0.0	4.3								
3	A	6	0.0	-3.7	6	0.0	-3.7	2	0.625	7.00	10.00	0.250
		1	0.0	4.3								
3	B	6	2.2	-3.4	8	-2.0	-3.0	2	0.625	7.00	10.00	0.250
		1	0.0	7.8	6	2.2	-3.4					
3	C	6	2.2	-4.7	8	-2.0	-3.0	2	0.625	7.00	10.00	0.250
		1	0.0	7.8	6	2.2	-4.7					
3	D	7	0.0	-6.2	7	0.0	-6.2	2	0.625	7.00	10.00	0.250
		1	0.0	4.3								
2	D	1	5.8	14.2	2	-5.3	-6.8	4	0.750	6.00	10.50	0.375
		1	5.8	14.2	3	-5.2	-10.5					
2	A	4	5.3	-6.8	1	-5.8	14.2	4	0.750	6.00	10.50	0.375
		1	-5.8	14.2	5	5.2	-10.5					

LOAD COMBINATIONS:

Id	Combination
1	DL+CL+LL
2	0.60DL+WL2
3	0.60DL+WL1
4	0.60DL+WR2
5	0.60DL+WR1
6	0.60DL+WL2+WS
7	0.60DL+WR2+WS
8	0.60DL+WP+LnWnd1

3210-2258274 Bracing Reactions Report: 3/21/12 3:59pm

BUILDING BRACING REACTIONS:

---Wall---		Col	-----Reactions(k)-----				Panel
Loc	Line	Line	---Wind---		---Seismic---		Shear
			Horz	Vert	Horz	Vert	(lb/ft)
L_EW	1	D ,C	2.22	2.62	0.31	0.37	
F_SW	A	2 ,3	2.57	1.46	0.48	0.27	
R_EW	3	C ,D	2.22	2.62	0.31	0.37	
B_SW	D	3 ,2	2.57	1.46	0.48	0.27	

3210-2258274 Additional Reactions Report: 3/21/12 3:59pm

Rigid Frame Column Reactions

Frame	Col	---Dead---		Collateral		---Live---		-Wind_L1--		-Wind_R1--	
Line	Line	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	1.1	2.8	0.4	0.9	4.3	10.6	-5.8	-12.2	1.1	-8.8
2	A	-1.1	2.8	-0.4	0.9	-4.3	10.6	-1.1	-8.8	5.8	-12.2

Frame	Col	-Wind_L2--		-Wind_R2--		-LnWind_1-		-LnWind_2-		Seismic_L-	
Line	Line	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	-5.9	-8.5	1.0	-5.1	-1.8	-10.4	-1.4	-6.7	-0.3	-0.2
2	A	-1.0	-5.1	5.9	-8.5	1.8	-10.4	1.4	-6.7	-0.3	0.2

Frame	Col	Seismic_R		Ln_Seismic		LWIND1_L2E		LWIND1_R2E		LWIND2_L2E	
Line	Line	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	0.3	0.2	0.0	-0.3	0.1	-1.3	-0.3	-0.3	0.1	-1.3
2	A	0.3	-0.2	0.0	-0.3	0.3	-0.3	-0.1	-1.3	0.3	-0.3

Frame	Col	LWIND2_R2E	
Line	Line	Horz	Vert
----	-----	-----	-----
2	D	-0.3	-0.3
2	A	-0.1	-1.3

Endwall Column Reactions

Frame	Col	Dead	Coll	Live	Wind_L1	Wind_R1	---Wind_L2---	
Line	Line	Vert	Vert	Vert	Vert	Vert	Horz	Vert
1	D	0.7	0.1	3.5	-4.0	-3.5	2.2	-6.6
1	C	1.1	0.3	6.4	-4.2	-2.7	0.0	-1.6
1	B	1.1	0.3	6.4	-2.7	-4.0	0.0	-2.7
1	A	0.7	0.1	3.5	-3.5	-4.2	0.0	-3.5

Frame	Col	---Wind_R2---		Wind_P	Wind_S	LnWind1	LnWind2	---Seis_L---	
Line	Line	Horz	Vert	Horz	Horz	Vert	Vert	Horz	Vert
1	D	0.0	-0.9	0.0	0.0	-1.2	-0.7	0.3	-0.4
1	C	2.2	-5.3	-2.0	2.2	-3.7	-2.2	0.0	0.4
1	B	0.0	-4.0	-2.0	2.2	-3.7	-2.2	0.0	0.0
1	A	0.0	-4.2	0.0	0.0	-1.2	-0.7	0.0	0.0

Frame	Col	---Seis_R---		--LWIND1_L--		--LWIND1_R--		--LWIND2_L--	
Line	Line	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	D	0.0	0.4	0.0	-0.5	0.0	0.0	0.0	-0.5
1	C	0.3	-0.4	0.0	-0.4	0.0	0.1	0.0	-0.4
1	B	0.0	0.0	0.0	0.1	0.0	-0.3	0.0	0.1
1	A	0.0	0.0	0.0	0.0	0.0	-0.6	0.0	0.0

Frame	Col	--LWIND2_R--	
Line	Line	Horz	Vert
-----	-----	-----	-----
1	D	0.0	0.0

1	C	0.0	0.1
1	B	0.0	-0.3
1	A	0.0	-0.6

Frame Line	Col Line	Dead Vert	Coll Vert	Live Vert	Wind_L1 Vert	Wind_R1 Vert	---Wind_L2--- Horz Vert	
3	A	0.7	0.1	3.5	-4.2	-3.5	0.0	-4.2
3	B	1.1	0.3	6.4	-4.1	-2.7	0.0	-4.1
3	C	1.1	0.3	6.4	-2.7	-4.2	2.2	-5.3
3	D	0.7	0.1	3.5	-3.5	-4.0	0.0	-0.9

Frame Line	Col Line	---Wind_R2--- Horz Vert		Wind_P Horz	Wind_S Horz	LnWind1 Vert	LnWind2 Vert	---Seis_L--- Horz Vert	
3	A	0.0	-3.5	0.0	0.0	-1.2	-0.7	0.0	0.0
3	B	0.0	-2.7	-2.0	2.2	-3.7	-2.2	0.0	0.0
3	C	0.0	-1.6	-2.0	2.2	-3.7	-2.2	0.3	-0.4
3	D	2.2	-6.6	0.0	0.0	-1.2	-0.7	0.0	0.4

Frame Line	Col Line	---Seis_R--- Horz Vert		--LWIND1_L-- Horz Vert		--LWIND1_R-- Horz Vert		--LWIND2_L-- Horz Vert	
3	A	0.0	0.0	0.0	-0.6	0.0	0.0	0.0	-0.6
3	B	0.0	0.0	0.0	-0.3	0.0	0.1	0.0	-0.3
3	C	0.0	0.4	0.0	0.1	0.0	-0.4	0.0	0.1
3	D	0.3	-0.4	0.0	0.0	0.0	-0.5	0.0	0.0

Frame Line	Col Line	--LWIND2_R-- Horz Vert	
3	A	0.0	0.0
3	B	0.0	0.1
3	C	0.0	-0.4
3	D	0.0	-0.5

3210-2258274 Seismic Design Report: 3/21/12 3:59pm

Building Data

Code	= IBC 09
Length	= 50.00
Width	= 50.00
Left Eave Height	= 16.00
Right Eave Height	= 16.00

Seismic Formula

Base Shear, V	= $0.667 \cdot I_e \cdot F_a \cdot S_s \cdot W/R$
Vmin	= $0.044 \cdot S_d \cdot I_e \cdot W$
Vmax	= $S_d \cdot I_e \cdot W / (T \cdot R)$
T (Moment Frame)	= 0.257
T (Braced Frame)	= 0.160
Shear Force, E	= $\rho \cdot V$
(Rigid frame, endwall frame, wind bent, wind column & base reactions)	
Shear Force, Em	= $\omega \cdot V$
(Wall diagonal bracing, splice at rigid frame & wind bent knee)	

Note: Applied load is seismic force multiplied by load combination

Fa*Ss	= 0.222
Zone/Design Category	= B

Ie = 1.000
 Sl = 0.060
 Sdl = 0.096
 Sds = 0.148

Seismic Dead Load, W

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-----
Roof  Dead+Collat  =   3.50 (psf )
Frame  Dead        =   2.00 (psf )
Roof   Total       =   5.50 (psf ) , Weight= 14.57 (k )
L_EW   Dead        =   2.00 (psf ) , Weight=  0.96 (k )
F_SW   Dead        =   2.00 (psf ) , Weight=  0.80 (k )
R_EW   Dead        =   2.00 (psf ) , Weight=  0.96 (k )
B_SW   Dead        =   2.00 (psf ) , Weight=  0.80 (k )
F_SW   Extend Dead =   2.00 (psf ) , Weight=  0.46 (k )
B_SW   Extend Dead =   2.00 (psf ) , Weight=  0.46 (k )
-----
Total = 19.02 (k )

```

Seismic Forces

Roof Bracing

R = 3.00, Rho= 1.00
 Cs = 0.0494
 W = 16.49 (k)
 Force, V = 0.81 (k)
 Force, E = 0.81 (k)

Sidewall Bracing

Front R = 3.00, Rho= 1.00, Omega= 3.00
 Cs = 0.0494
 W = 9.80 (k)
 Force, V = 0.48 (k)
 Force, Em = 1.45 (k)
 Force, E = 0.48 (k)
 Back R = 3.00, Rho= 1.00, Omega= 3.00
 Cs = 0.0494
 W = 9.80 (k)
 Force, V = 0.48 (k)
 Force, Em = 1.45 (k)
 Force, E = 0.48 (k)

Endwall Bracing

Left R = 3.00, Rho= 1.00, Omega= 3.00
 Cs = 0.0494
 W = 6.28 (k)
 Force, V = 0.31 (k)
 Force, Em = 0.93 (k)
 Force, E = 0.31 (k)
 Right R = 3.00, Rho= 1.00, Omega= 3.00
 Cs = 0.0494
 W = 6.28 (k)
 Force, V = 0.31 (k)
 Force, Em = 0.93 (k)
 Force, E = 0.31 (k)

Rigid Frames

R = 3.00, Rho= 1.00
 Cs = 0.0494
 Frame 1 W = 10.12 (k)
 Force, V = 0.50 (k)
 Force, E = 0.50 (k)

End Plates

Frame R = 3.00, Omega= 3.00

Total Base Shear

Longitudinal
 Force, V = 0.97 (k)
 Transverse
 Force, V = 1.12 (k)