



Lumber design values are in accordance with ANSI/TPI 1-2007 section 6.3 These truss designs rely on lumber values established by others.

RE: ELIX-SISTRUNK - ROOF DESIGN INFO

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: SISTRUNK Project Name: SISTRUNK Model:

Lot/Block: .

Subdivision: .

Address: .

City: COLUMBIA COUNTY

State: FLORIDA

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010

Design Program: OnLine Plus 30.0.014

Wind Code: ASCE 7-10 Wind Speed: 120 mph

Floor Load: N/A psf

Roof Load: 40.0 psf

T4589409

This package includes 2 individual, dated Truss Design Drawings and 0 Additional Drawings.

10/26/012

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

Truss Name No. Seal# Date R1 T4589408 10/26/012 R2GE

	CUNTY BUILDING	
1	Received Co.	
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13.	-ILE COPY ?	l
13	Code 1	
1	Compliance	
	TAS EXAMINER	

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

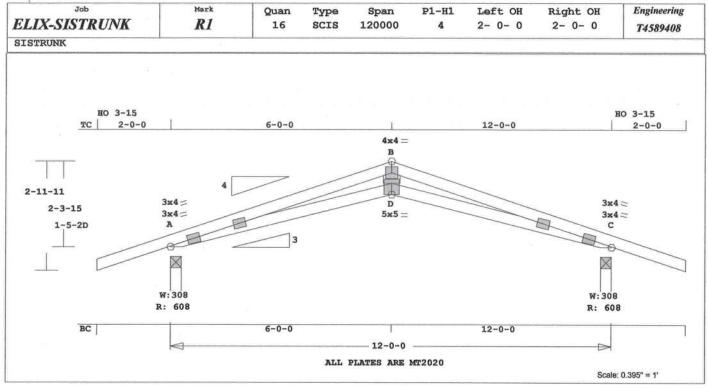
Truss Design Engineer's Name: Albani, Thomas My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.



FL Cert. 6634

October 26,2012



Online Plus -- Version 30.0.014 RUN DATE: 26-OCT-12

Southern Pine lumber design values are those effective 06-01-12 by SPIB//ALSC UON CSI -Size- ----Lumber--

TC 0.41 2x 4 SP-#2 BC 0.74 2x 4 SP-#2 WB 0.16 2x 6 SP-#2

Brace truss as follows:

O.C. From To

TC Cont. 0- 0- 0 12- 0- 0
or 36.0" 0- 0- 0 12- 0- 0
BC Cont. 0- 0- 0 12- 0- 0
or 84.0" 0- 0- 0 12- 0- 0

psf-Ld Dead Live TC 10.0 20.0 BC 10.0 0.0 TC+BC 20.0 20.0 Total 40.0 Spacing 24.0" Lumber Duration Factor 1.25 Plate Duration Factor Fb FC Ft Emin TC 1.15 1.10 1.10 1.10

1.10 1.10 1.10 1.10

Total Load Reactions (Lbs)

BC

Jt Down Uplift Horiz-A 608 19 R C 608 19 R

Jt Brg Size Required A 3.5" 1.5" C 3.5" 1.5"

Plus 21 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-CSI-Bnd
----Top Chords----A -B 0.41 2376 C 0.10 0.31

TL Defl -0.43" in D -C L/315
LL Defl -0.17" in D -C L/793
Hz Disp LL DL TL
Jt C 0.11" 0.16" 0.27"
Shear // Grain in A -B 0.15

Plates for each ply each face. Plate - MT20 20 Ga, Gross Area Plate - MT2H 20 Ga, Gross Area Jt Type Plt Size X Y JSI A MT20 3.0x 4.0 7.4 2.5 0.53 A MT20 3.0x 4.0-7.4-2.5 0.26 B MT20 4.0x 4.0 Ctr Ctr 0.72 C MT20 3.0x 4.0-7.4 2.5 0.53 C MT20 3.0x 4.0 7.4-2.5 0.26 D MT20 5.0x 5.0 Ctr-1.1 0.67

REVIEWED BY:

MiTek Industries, Inc. 6904 Parke East Blvd. Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by: Mayo Truss Co. Inc. Analysis Conforms To: FBC2010 TPI 2007 OH Loading

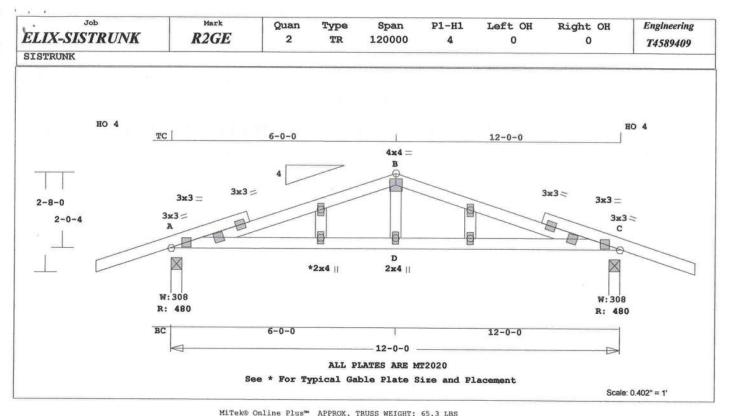
Soffit psf 2.0

This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle 3-6-0 tall by

2- 0- 0 wide will fit between the B.C. and any other member. Design checked for 10 psf nonconcurrent LL on BC. Wind Loads - ANSI / ASCE 7-10 Truss is designed as Components and Claddings\* for Exterior zone location. Wind Speed: 120 mph Risk Category II Mean Roof Height: 15-0 Exposure Category: Building Type: Enclosed TC Dead Load: 6.0 psf 6.0 psf BC Dead Load: 2376 Lbs Max comp. force Max tens. force 2334 Lbs Connector Plate Fabrication Tolerance = 20% This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.



FL Cert. 6634



Online Plus -- Version 30.0.014 RUN DATE: 26-OCT-12

Southern Pine lumber design values are those effective 06-01-12 by SPIB//ALSC UON CSI -Size- ----Lumber TC 0.25 2x 4 SP-#2 0.39 2x 4 SP-#2 BC

0.04 2x 4 SP-#2 Brace truss as follows:

o.c. From To 0- 0- 0 12- 0- 0 TC Cont. or 48.0" 0- 0- 0 12- 0- 0 BC Cont. 0- 0- 0 12- 0- 0 or 120.0" 0- 0- 0 12- 0- 0

psf-Ld Dead Live TC 10.0 20.0 0.0 BC 10.0 TC+BC 20.0 20.0 40.0 Total Spacing 24.0" Lumber Duration Factor 1.25 Plate Duration Factor 1.25 Fb FC Ft Emin TC 1.15 1.10 1.10 1.10 BC 1.10 1.10 1.10 1.10

Total Load Reactions (Lbs) Jt Down Uplift Horiz-A 480 16 R C 480 16 R

Jt Brg Size Required 1.5" 3.5" A 3.5" 1.5"

Plus 21 Wind Load Case(s) Plus 1 UBC LL Load Case(s) Plus 1 DL Load Case(s)

CSI P Lbs Axl-CSI-Bnd ----Top Chords-----A -B 0.25 937 C 0.01 0.24 B -C 0.25 937 C 0.01 0.24 --Bottom Chords----D 0.39 912 T 0.19 0.20 D -C 0.39 912 T 0.19 0.20 -Webs--D-B 0.04 232 T

TL Defl -0.08" in A -D L/999 LL Defl -0.03" in A -D L/999 Shear // Grain in A -B 0.18

Plates for each ply each face. Plate - MT20 20 Ga, Gross Area Plate - MT2H 20 Ga, Gross Area Jt Type Plt Size X Y JSI MT20 3.0x 3.0 Ctr Ctr 0.61 A B MT20 4.0x 4.0 Ctr Ctr 0.81 C MT20 3.0x 3.0 Ctr Ctr 0.61 D MT20 2.0x 4.0 Ctr Ctr 0.21

2 Gable studs to be attached with 2.0x4.0 plates each end. REVIEWED BY: MiTek Industries, Inc. 6904 Parke East Blvd. Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by: Mayo Truss Co. Inc. Analysis Conforms To: FBC2010 **TPI 2007** 

WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate. Design checked for 10 psf nonconcurrent LL on BC.

Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified Building Designer as per ANSI/TPI 1.

Wind Loads - ANSI / ASCE 7-10 Truss is designed as Components and Claddings\*

for Exterior zone location. Wind Speed: 120 mph

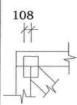
Risk Category : I: Mean Roof Height: 15-0 Exposure Category: Building Type: Enclosed TC Dead Load: 6.0 psf BC Dead Load: 6.0 psf Max comp. force 937 Lbs Max tens. force 912 Lbs Connector Plate Fabrication Tolerance = 20% This truss is designed for a creep factor of 1.5 which is used to calculate total

load deflection.



FL Cert. 6634

# ONLINE PLUS GENERAL NOTES & SYMBOLS



### PLATE LOCATION

Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

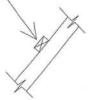
# FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(N) = Wide Face Plate (N) = Narrow Face Plate

#### LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.



#### PLATE SIZE AND ORIENTATION

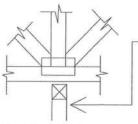


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

#### **DIMENSIONS**

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX) R = Reaction (lbs.)

U = Uplift (lbs.)

#### BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with "National Design Specifications for Wood Construction" (AF & PA ), " National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

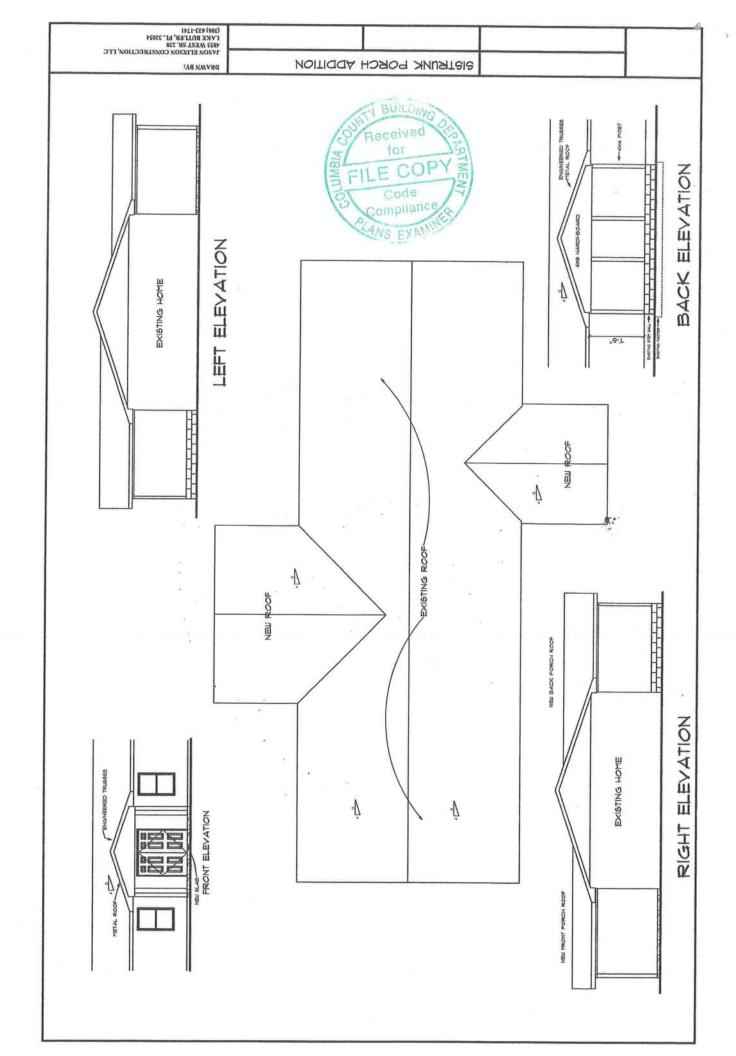
FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.

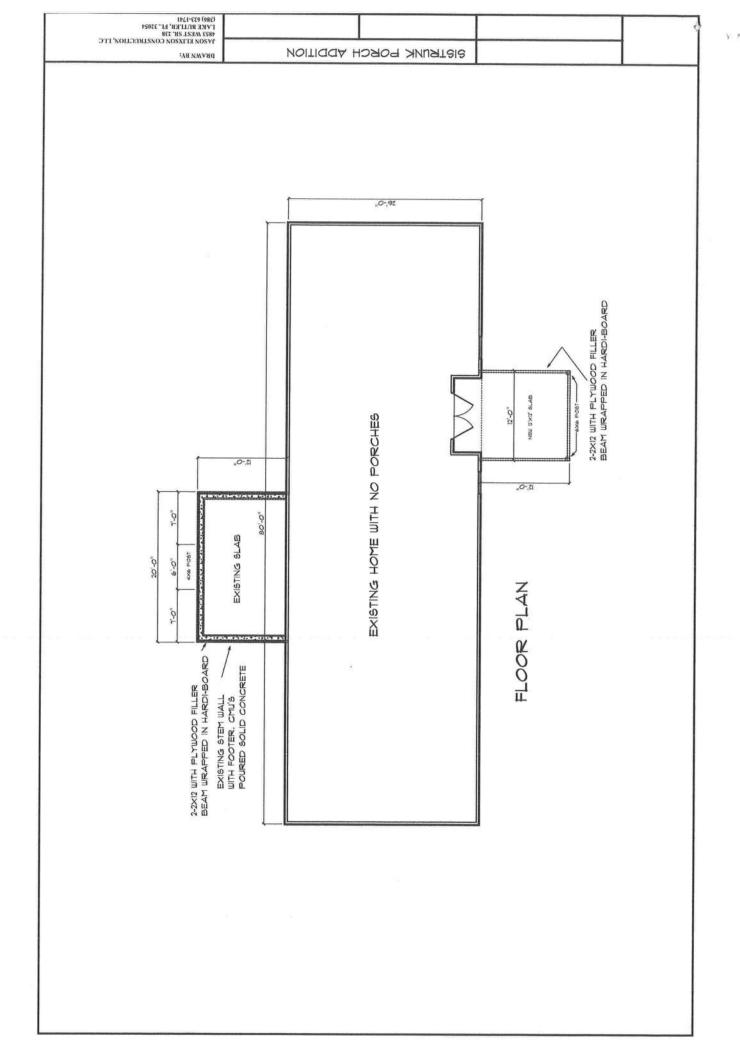


## MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Tel: 813-972-1135 Fax: 813-971-6117









Prepared for:

# JASON ELIXSON CONSTRUCTION SISTRUNK PORCH ADDITION COLUMBIA COUNTY, FLORIDA

By:



386-462-1340 / 352-375-6329

NO COPIES ARE TO BE PERMITTED

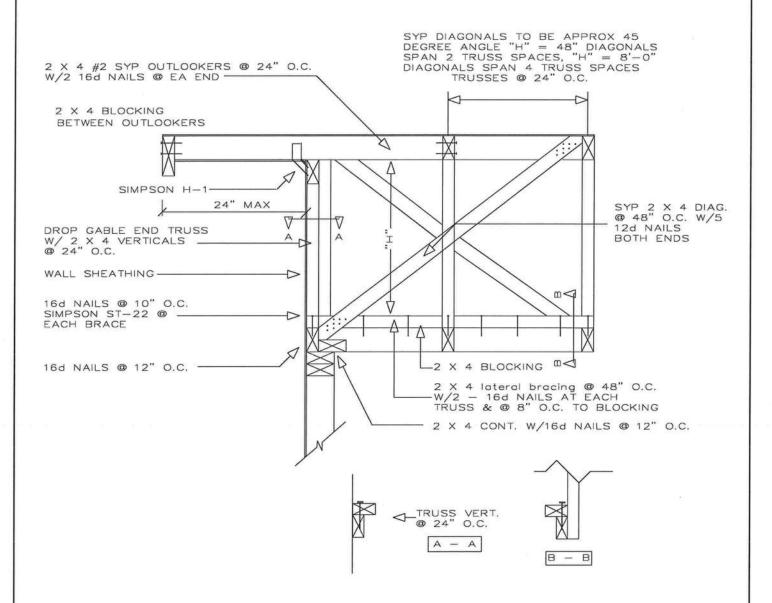
# SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: $386-462-1340 \setminus 352-375-6329$

Roof Sheathing: Type: OSB   Size: 7/16"   Fastener type nails: 8d / .113 Ring Shank   Interior zone spacing: Interior: 6"   Periphery: 4"   4"   Edge and end zone spacing: Interior: 6"   Periphery: 4"   4"   Periphery: 4"   Peripher
Double Top Plate: Type: Spruce Grade: #1 #2 Size: 2 x 4 Nail Spacing: 8" o.c.  Stud Type: Spruce Grade: #1 #2 Size: 2 x 4 Interior stud spacing: 16" End stud spacing: 16"  Shear Wall Siding: Type: OSB Thickness: 7/16"  6 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"  6 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"  Allowable Unit Shear on Shear Walls: 314 pounds per linear foot Unit Shear Transferred from Diaphragm: Trans: 254 Long: 207  Wall Tension Transferred by: Siding Nails: 8d/131 4" O.C. Edges  Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"  Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"  Type of Foundation: (1) - #5 rebar continuous required in bond beam. Floor Slab: 4" Cmu size: 8" x 16" Height: 24" Rein.: 45 at 72" o.c.  Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebar  Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar
Stud Type: Spruce Grade: #1 #2 Size: 2 x 4 Interior stud spacing: 16" End stud spacing: 16"  Shear Wall Siding: Type: OSB Thickness: 7/16"  6 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"  6 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"  Allowable Unit Shear on Shear Walls: 314 pounds per linear foot Unit Shear Transferred from Diaphragm: Trans: 254 Long: 207  Wall Tension Transferred by: Siding Nails: 8d/131 4" O.C. Edges  Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"  Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"  Type of Foundation: (1) - #5 rebar continuous required in bond beam. Floor Slab: 4" Cmu size: 8" x 16" Height: 24" Rein.: #5 at 72" o.c.  Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars  Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar
Wall Tension Transferred by: Siding Nails: 8d/131  4" O.C. Edges  Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"  Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"  Anchor Bolts  48" o.c. Model: A307 Loc. from corner: 8"  Type of Foundation: (1) - #5 rebar continuous required in bond beam. Floor Slab: 4" Cmu size: 8" x 16" Height: 24" Rein.: #5 at 72" o.c.  Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars  Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar
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Type of Foundation: (1) — #5 rebar continuous required in bond beam. Floor Slab: _4" Cmu size: _8" x 16" Height: _24" Rein.: _#5 at _72" o.c.  Monolithic Footing: Depth: _20" Bottom Width: _12 Rein.: _2 _#5 rebars  Stemwall Footing: Width: _20 Depth: _10 Rein.: _2 _#5 rebar
Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar
Interior Footings 16" Wide X 10" Deep with 2-#5 rebar continuous
6 x 6 x 8' syp pt @ Simpson CB66 \ Porch Columns: 148" o.c. max spacing Column Fasteners: (2) LCE4 or equal
Special Comments: Install ceiling diaphragm on open porch using same size nail, same nail spacing and same grade material as roof sheathing.

- 1. Balloon frame all gable ends unless accompanied by gable end detail
  2. All trusses must bear on exterior walls and porch beams.
  3. All walls to be nailed with same nailing pattern as the shear walls.
  4. This wind load is not valid without a raised, embossed seal. (NO COPIES).
  5. 1500 psf soil bearing pressure minimum.
  6. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min
  7. Trusses must be installed and anchored in accordance to the truss engineering.
  8. All headers spanning over 12' must be pre-engineered.
  9. The foundation is for minimum design use, and may be increased.
  10. Wind load is for one use only \(\text{FBC-2010}\)\(\text{No copies permitted}\)
- 10-24-12

Bruce Schafer, P. E. #48984 7104 NW 42ND LN GAINESVILLE, FL. 32606

# SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: 386-462-1340 \ 352-375-6329



TYPICAL GABLE END BRACING

Bruce Schafer, P. E. #48984 7104 NW 42ND LN GAINESVILLE, FL. 32606

# SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: 386-462-1340 \ 352-375-6329

#### TIE-DOWN TABLES

Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	нз	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

	20 02		
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

Two 12d common toenials are required per truss for each bearing point into top plate. It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

- Simpson or equivient hardware may be used.
   For nailing into spruce members, multiply table values by .86
- 2. See truss engineering for anchor uplift values.
- This schedule is not meant to be a replacement to the specified values of any manufactures values.

User Input Data						
Structure Type	Building					
Basic Wind Speed (V)	135	mph				
Structural Category	- 11					
Exposure	В					
Struc Nat Frequency (n1)	1	Hz				
Slope of Roof (Theta)	18.4	Deg				
Type of Roof	Gabled					
Eave Height (Eht)	8.00	ft				
Ridge Height (RHt)	10.54	ft				
Mean Roof Height (Ht)	9.52	ft				
Width Perp. to Wind (B)	12.00	ft				
Width Parallel to Wind (L)	12.00	ft				
Damping Ratio (beta)	0.01					

Red values should be changed only through "Main Menu	ed values should b	e changed	only through	"Main Menu
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Calculated Paramete	rs
Type of Structure	
Height/Least Horizontal Dim	0.79
Flexible Structure	No

Calculated Parameters				
Importance Factor	1			
Non-Hurricane, Hurrican	e (v=85-100 mph	) & Alaska		
Table Co	6-4 Values			
Alpha =	7.000	7 - 7		
zg =	1200.000			
At = Bt =	0.143			
Am =	0.250			
Bm =	0.450			
Dilli				
Cc =	0.300			
	0.300 320.00	ft		
		ft		

7-1-1	Gust Factor Category I: Rigid Structures - Simplified Met	hod	BUS
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	-
	Gust Factor Category II: Rigid Structures - Complete Anal	ysis	
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	I*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.9460	
Gust2	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	0.8932	
	Gust Factor Category III: Flexible or Dynamically Sensitive Str	ructures	
Vhref	V*(5280/3600)	198.00	ft/s
Vzm	bm*(zm/33)^Am*Vhref	87.00	ft/s
NF1	NatFreq*Lzm/Vzm	3.56	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0627	
Nh	4.6*NatFreq*Ht/Vzm	0.50	
Nb	4.6*NatFreq*B/Vzm	0.63	
Nd	15.4*NatFreq*Depth/Vzm	2.12	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.7344	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.6832	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.3616	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	1.4843	
<b>9</b> 9	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*lzm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*lzm))	1.55	

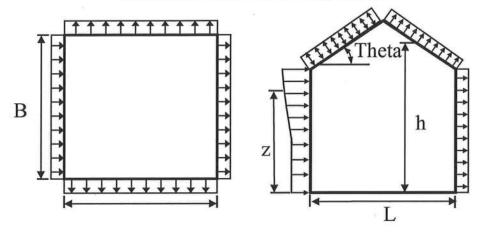
医医性多性原表性可能原因	Gust	t Factor Summary	
Main Wind-force resisting system:		Components and Cla	adding:
Gust Factor Category:	1	Gust Factor Category:	ı
Gust Factor (G)	0.89	Gust Factor (G)	0.89

# 6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2	
ft		School State	1.00		Windward Wall	
				1.00	1.00	lb/ft^2
15	0.70	1.00	1.00	32.69	23.36	23.36

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(15/zg)^(2/Alpha)	0.57	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	26.81	psf

Wall Pressure Coefficients, Cp	
Surface	Ср
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

	Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	· · · · · · · · · · · · · · · · · · ·	
Reduction Factor		1.00

Description	Ср	Pressure	e (psf)
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 12 ft wall)	-0.50	-11.97	-11.97
Leeward Walls (Wind Dir Parallel to 12 ft wall)	-0.50	-11.97	-11.97
Side Walls	-0.70	-16.76	-16.76
Roof - Normal to Ridge (	Theta>=10)		
Windward - Max Negative	-0.67	-16.09	-16.09
Windward - Max Positive	0.00	0.00	0.00
Leeward Normal to Ridge	-0.59	-14.05	-14.05
Overhang Top	-0.67	-16.09	-16.09
Overhang Bottom	0.80	0.71	0.71
Roof - Parallel to Ridge	(All Theta)		
Dist from Windward Edge: 0 ft to 4.76 ft	-1.13	-27.17	-27.17
Dist from Windward Edge: 4.76 ft to 9.52 ft	-0.78	-18.74	-18.74
Dist from Windward Edge: 9.52 ft to 19.04 ft	-0.62	-14.78	-14.78
	0.00	0.00	0.00

age No. 2 of 6

\* Horizontal distance from windward edge

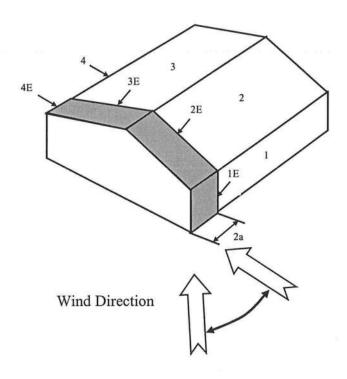
## Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	26.81

			Case	A		
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.52	0	0	32.69	16.87	16.87
2	-0.69	0	0	32.69	-22.55	-22.55
3	-0.47	0	0	32.69	-15.31	-15.31
4	-0.42	0	0	32.69	-13.57	-13.57
5	0.00	0	0	32.69	0.00	0.00
6	0.00	0	0	32.69	0.00	0.00
1E	0.78	0	0	32.69	25.49	25.49
2E	-1.07	0	0	32.69	-34.97	-34.97
3E	-0.67	0	0	32.69	-22.00	-22.00
4E	-0.62	0	0	32.69	-20.19	-20.19
5E	0.00	0	0	32.69	0.00	0.00
6E	0.00	0	0	32.69	0.00	0.00

<sup>\*</sup> p = qh \* (GCpf - GCpi)



## Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	26.81

			Case I	3		
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0	0	32.69	-14.71	-14.71
2	-0.69	0	0	32.69	-22.55	-22.55
3	-0.37	0	0	32.69	-12.09	-12.09
4	-0.45	0	0	32.69	-14.71	-14.71
5	0.40	0	0	32.69	13.07	13.07
6	-0.29	0	0	32.69	-9.48	-9.48
1E	-0.48	0	0	32.69	-15.69	-15.69
2E	-1.07	0	0	32.69	-34.97	-34.97
3E	-0.53	0	0	32.69	-17.32	-17.32
4E	-0.48	0	0	32.69	-15.69	-15.69
5E	0.61	0	0	32.69	19.94	19.94
6E	-0.43	0	0	32.69	-14.06	-14.06

<sup>\*</sup> p = qh \* (GCpf - GCpi)

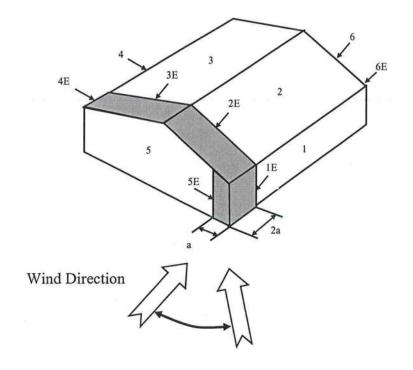
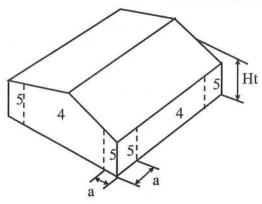
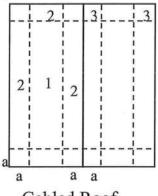


Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft







Gabled Roof 10 < Theta <= 45

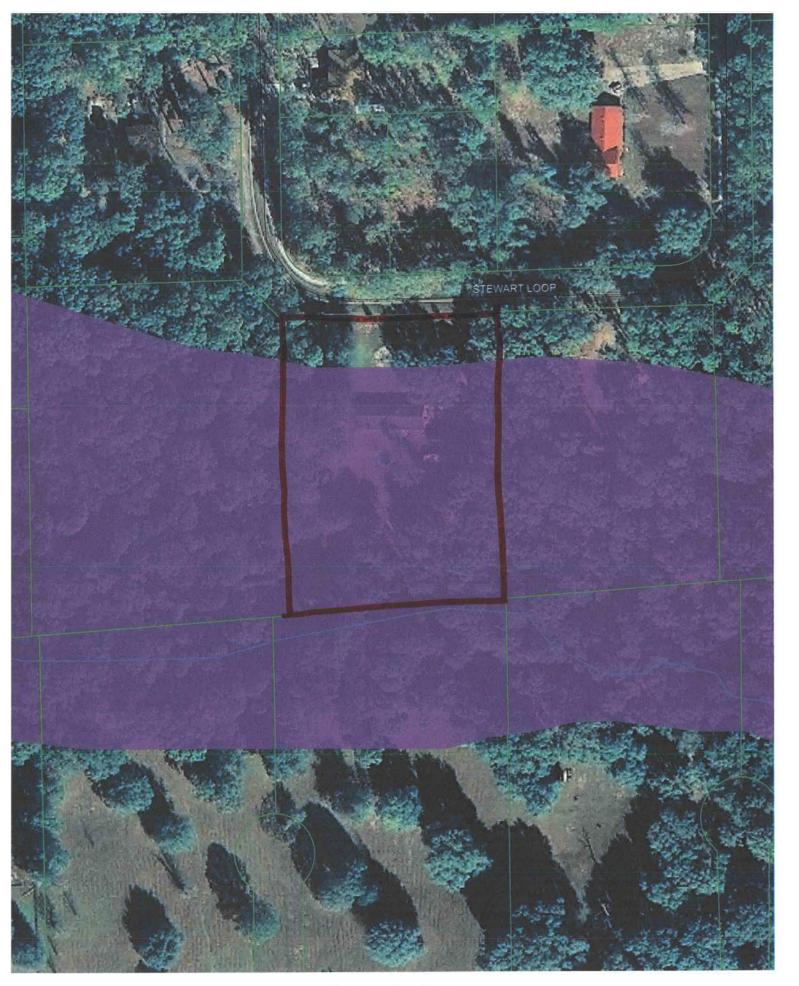
Component	Width	Length	Area	Zone	G	Ср	Wind Pres	ss (lb/ft^2
1554	(ft)	(ft)	(ft^2)		Max	Min	Max	Min
	16	7	112.00	5	0.81	-1.03	21.85	-27.60
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00	-				
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	. 0.00					
	0	0	0.00					

Note: \* Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00

Open Buildings	0.00	0.00
Enclosed Buildings	0.18	-0.18
Partially Enclosed Buildings	0.55	-0.55



1212-31



# Columbia County BUILDING DEPARTMENT



**Inspection Affidavit** 

RE: Permit Number: 30690

^
I Jason Elexson ,licensed as a(n) Contractor* /Engineer/Architect,  (please print name and circle Lic. Type)  FS 46 Building Inspector*
License #; CCC 1325779
On or about $12-30-2012$ , I did personally inspect the (Date & time)
roof deck attachment secondary water barrier roof to wall connection
work at 359 SW Stewart Loop Lake City F1. 32024  (Job Site Address)
Based upon that examination I have determined the installation was done according to the Hurricane Mitigation Retrofit Manual (Based on 553.844 F.S.)
Signature
STATE OF FLORIDA COUNTY OF
Sworn to and subscribed before me this day of 201_3
By Notary Public, State of Florida
Personally known or Type of identification produced Type of identification produced CAURIE HODSON

- \* Include photographs of each plane of the roof with the permit number clearly shown marked on the deck for each inspection. Place a tape measure next to the nailing pattern to show distance between nails.
- \* Photographs must clearly show all work and have the permit number indicated on the roof.
- \* Affidavit and Photographs must be provided when final inspection is requested.

