



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

RE: ELIM-BAPTIST -

**MiTek USA, Inc.**

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: ELIM BAPTIST CHURCH Project Name: ELIM BAPTIST CHURCH Model:  
Lot/Block: . Subdivision: .  
Address: .  
City: . 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 30.0.033   
Wind Code: ASCE 7-10 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 1 individual, dated Truss Design Drawings and 0 Additional Drawings.  
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.

No.	Seal#	Truss Name	Date
1	T6508784	R1	9/4/014

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: Velez, Joaquin  
My license renewal date for the state of Florida is February 28, 2015.

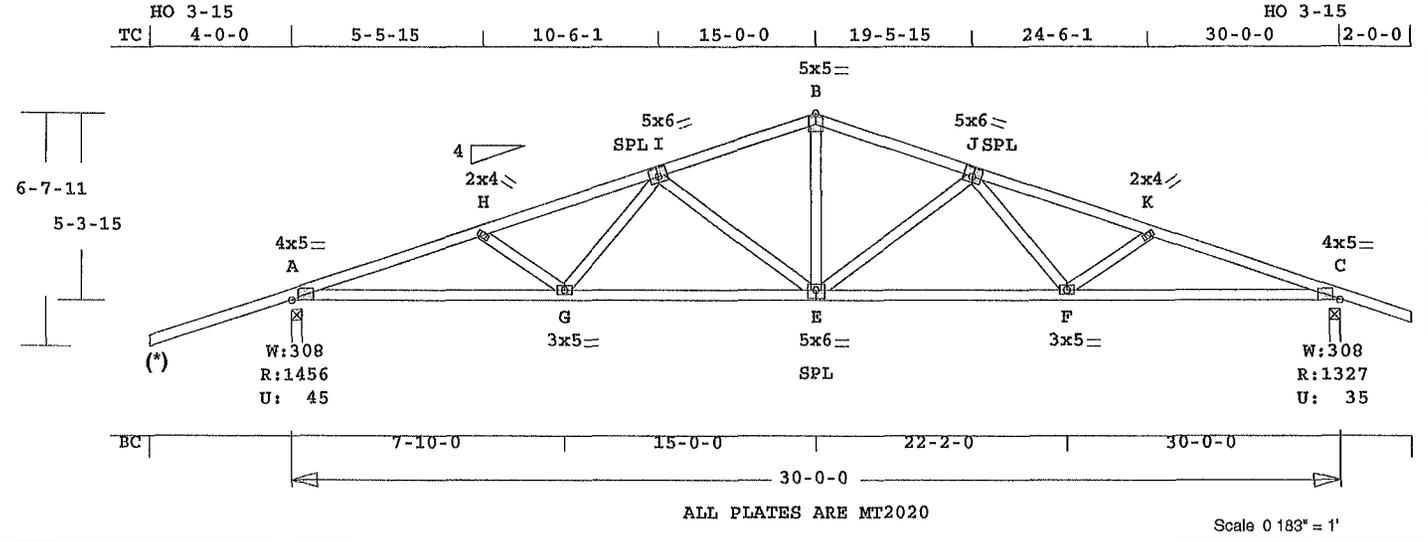
**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



FL Cert. 6634

September 4, 2014

ELIM BAPTIST CHURCH



Online Plus -- Version 30.0.033  
 RUN DATE: 04-SEP-14

Southern Pine lumber design values are those effective 06-01-13 by SPIB//ALSC UON  
 CSI -Size- ---Lumber----

TC	0.33	2x 4	SP-#2
BC	0.76	2x 4	SP-#2
WB	0.36	2x 4	SP-#2

MiTek® Online Plus™ APPROX TRUSS WEIGHT 185 0 LBS

E - F	0.63	2281 T	0.46	0.17
F - C	0.76	2818 T	0.57	0.19
-----Webs-----				
H - G	0.06	340 C		
G - I	0.09	462 T		
I - E	0.36	634 C		
E - B	0.21	937 T		
E - J	0.36	636 C		
J - F	0.09	464 T		
F - K	0.06	344 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 non-concurrent LL on BC.  
 Wind Loads - ANSI / ASCE 7-10  
 Truss is designed as Components and Claddings\* for Exterior zone location.  
 Wind Speed: 130 mph  
 Risk Category : II  
 Mean Roof Height: 15-0  
 Exposure Category: B  
 Building Type: Enclosed  
 TC Dead Load: 6.0 psf  
 BC Dead Load: 6.0 psf  
 Max comp. force 2969 Lbs  
 Max tens. force 2818 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.

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	30- 0- 0
or	36.0"	0- 0- 0
BC Cont.	0- 0- 0	30- 0- 0
or	78.0"	0- 0- 0

TL Defl -0.49" in G -E L/717  
 LL Defl -0.19" in G -E L/999  
 Shear // Grain in H -I 0.19

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	1.25		
	Fb	Fc	Ft	Emin
TC	1.15	1.10	1.10	1.10
BC	1.10	1.10	1.10	1.10

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 4.0x 5.0 Ctr 0.1 0.83  
 H MT20 2.0x 4.0 Ctr Ctr 0.28  
 I MT20 5.0x 6.0-0.2 0.5 0.60  
 B MT20 5.0x 5.0 Ctr Ctr 0.48  
 J MT20 5.0x 6.0 0.2 0.5 0.60  
 K MT20 2.0x 4.0 Ctr Ctr 0.28  
 C MT20 4.0x 5.0 Ctr 0.1 0.83  
 G MT20 3.0x 5.0 Ctr Ctr 0.29  
 E MT20 5.0x 6.0 Ctr-0.5 0.95  
 F MT20 3.0x 5.0 Ctr Ctr 0.29

Total Load Reactions (lbs)

Jt	Down	Uplift	Horiz-
A	1457	46 U	54 R
C	1327	36 U	54 R

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

Jt	Brg Size	Required
A	3.5"	1.7"
C	3.5"	1.6"

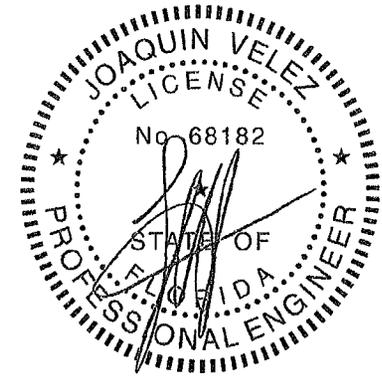
REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

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

NOTES:  
 Trusses Manufactured by:  
 Mayo Truss Co. Inc.  
 Analysis Conforms To:  
 FBC2010  
 TPI 2007  
 OH Loading  
 Soffit psf 2.0

Membr	CSI	P	Lbs	Axl	CSI	Bnd
-----Top Chords-----						
A	-H	0.30	2961 C	0.10	0.20	
H	-I	0.33	2668 C	0.09	0.24	
I	-B	0.25	1882 C	0.03	0.22	
B	-J	0.25	1881 C	0.03	0.22	
J	-K	0.33	2673 C	0.09	0.24	
K	-C	0.31	2969 C	0.10	0.21	
-----Bottom Chords-----						
A	-G	0.76	2811 T	0.57	0.19	
G	-E	0.63	2280 T	0.46	0.17	

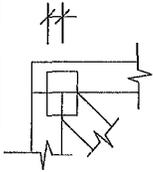
(\*Excessive Left OH condition.  
 Max allowable length is 3- 7- 3. Support end or provide level return.  
 This truss has been designed for 20.0 psf LL on the B.C.



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# ONLINE PLUS GENERAL NOTES & SYMBOLS

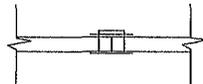
108



## 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)

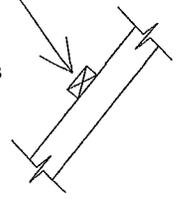
## FLOOR TRUSS SPLICE ( 3X2, 4X2, 6X2 )



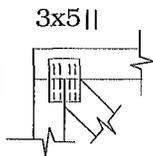
(W) = Wide Face Plate  
(N) = Narrow Face Plate

## 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.



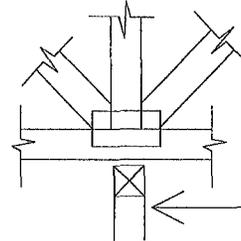
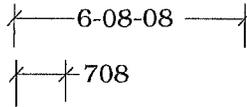
## PLATE SIZE AND ORIENTATION



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.



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