

RE: 2135435 - TABERNACLE ADDITION

Site Information:

MiTek USA, Inc. 6904 Parke East Blvd.

Customer Info: HMI, INC. Project Name: Tabernacle Baptist Addition Model: Custom Lot/Block: N/A Subdivision: N/A Address: 144 SE Montrose Ave., N//A City: Columbia Cty State: FL

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: FBC2017/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.2 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 3 individual, 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	T18389652	T01G	10/16/19
2	T18389653		10/16/19
3	T18389654		10/16/19

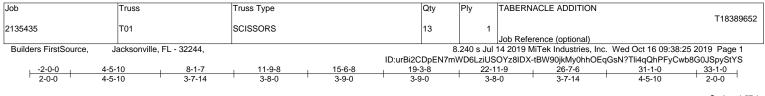
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

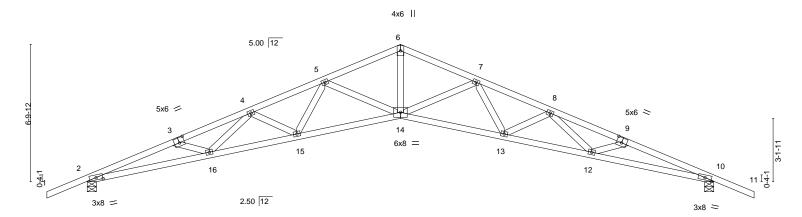
My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.









L	6-0-10	10-4-12	15-6-8	20-8		25-0-6	31-1-0		
Plate Offsets (X,Y)	<u>6-0-10</u> [2:0-4-0,0-1-6], [3:0-3-0,0	4-4-2	5-1-12	5-1-	-12	4-4-2	6-0-10		
	[2.0-4-0,0-1-0], [3.0-3-0,0	-3-0], [9.0-3-0,0-	3-0], [10.0-4-0,0-1-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.43 14	>863 240	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.87 13-14	>429 180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.50 10	n/a n/a			
BCDL 10.0	Code FBC2017/TI	PI2014	Matrix-MS				Weight: 150 lb	FT = 20%	
OT CHORD 2x4	SP No.2 SP M 31 SP No.3			BRACING- TOP CHORI BOT CHORI			g directly applied or 2-3-5 c ied or 6-7-5 oc bracing.	oc purlins.	
Max Max	ize) 2=1363/0-5-8, 10=13 Horz 2=-122(LC 13) Uplift 2=-351(LC 12), 10=-3 Ax. Comp./Max. Ten All for	351(LC 13)	ess except when shown.						
OP CHORD 2-3	3=-4626/1548, 3-4=-4463/14	77, 4-5=-4051/1	345, 5-6=-3134/1022, 6-7	=-3134/1022,					
	8=-4051/1355, 8-9=-4463/15			7					
	16=-1337/4291, 15-16=-1232 -13=-1251/4126, 10-12=-138		104/3007, 13-14=-991/350	<i>D1</i> ,					
	14=-659/2151, 7-14=-718/33		5. 8-13=-393/212. 5-14=-7	718/337.					
	5-15=-161/495, 4-15=-393/213								
NOTES-									
 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 All plates are 3x4 MT20 unless otherwise indicated. This trues have how designed for a 10 or pet battom chord live load poppopurrant with any other live loads. 									
	RS (envelope) gable end zo					eactions		1111	
	OL=1.60 plate grip DOL=1.6					Caulons	IN AQUIN	VEI	
	MT20 unless otherwise indi						NCE	NOTA	
/ 1	an designed for a 10.0 not be		load popoonourrent with a	ny other live loop	ho				

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=351, 10=351.

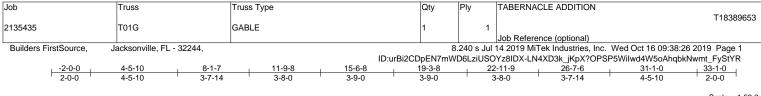


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

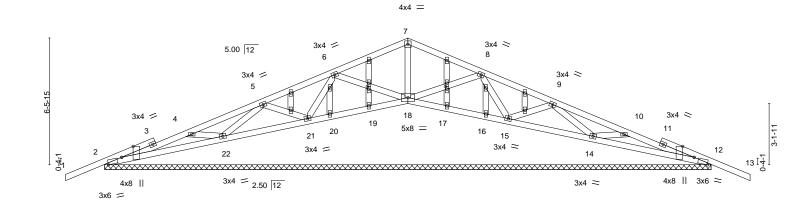
October 16,2019



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED INTER REPERENCE PAGE MIL-14's rev. Invozens Derrore USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Scale = 1:59.0



1	6-0-10	10-4-12	15-6-8	20-8-4		25-0-6	31-1-0	1
F	6-0-10	4-4-2	5-1-12	5-1-12		4-4-2	6-0-10	
Plate Offsets (X,Y)	[2:0-6-12,Edge], [2:0-8-14	,Edge], [12:0-6-12	2,Edge], [12:0-8-14,Edg	e], [23:0-1-11,0-1-0], [2	29:0-1-11	,0-1-0]		
OADING (psf)	SPACING-	2-0-0	CSI.		n (loc)	l/defl L/d	PLATES	GRIP
CLL 20.0 CDL 10.0 SCLL 0.0 *	Plate Grip DOL Lumber DOL Rep Stress Incr	1.25 1.25 YES	TC 0.26 BC 0.27 WB 0.09	Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	2 13	n/r 120 n/r 120 n/a n/a	MT20	244/190
3CDL 10.0	Code FBC2017/TP	-	Matrix-S	1012(01) 0.0) 12	11/a 11/a	Weight: 167 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 DC TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.								
BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3 DTHERS 2x4 SP No.3								
REACTIONS. All bearings 31-1-0. (b) - Max Horz 2=-117(I C 17)								

Max Uplift All uplift 100 lb or less at joint(s) 18 except 2=-117(LC 8), 12=-130(LC 13), 15=-125(LC 13), 14=-157(LC 13), 21=-141(LC 12), 22=-151(LC 12)

- Max Grav All reactions 250 lb or less at joint(s) 19, 20, 17, 16 except 2=332(LC 23), 12=332(LC 24), 18=330(LC 1), 15=340(LC 24), 14=471(LC 24), 21=340(LC 23), 22=471(LC 23)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 4-5=-164/337, 9-10=-119/337
- WEBS 8-15=-280/125, 9-14=-370/214, 10-14=-445/297, 6-21=-280/131, 5-22=-370/215, 4-22=-445/298

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=117, 12=130, 15=125, 14=157, 21=141, 22=151.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 15, 14, 21, 22, 19, 20, 17, 16.

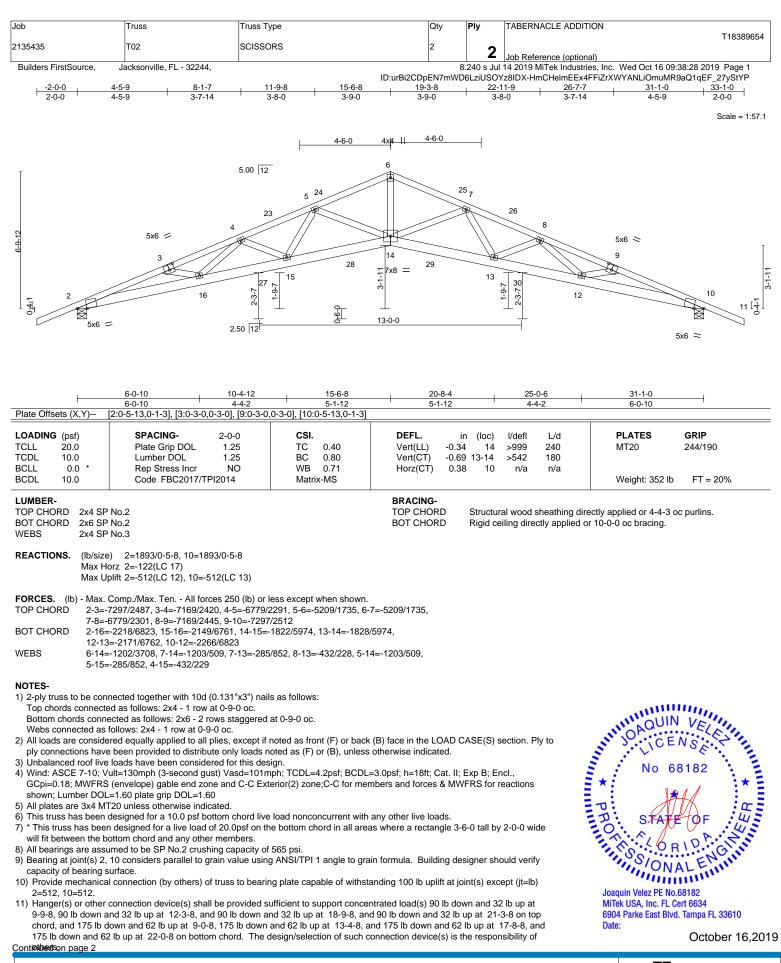


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

October 16,2019



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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6904 Parke East Blvd. Tampa, FL 36610

MiTek

Job	Truss	Truss Type	Qty	Ply	TABERNACLE ADDITION	
						T18389654
2135435	T02	SCISSORS	2	2		
				_	Job Reference (optional)	
Builders FirstSource.	Jacksonville, FL - 32244.			8.240 s Jul	14 2019 MiTek Industries, In	nc. Wed Oct 16 09:38:28 2019 Page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 14-17=-20, 14-20=-20

Concentrated Loads (lb)

Vert: 23=-90 24=-90 25=-90 26=-90 27=-175(F) 28=-175(F) 29=-175(F) 30=-175(F)

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