



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

RE: 2613781 - JT BLDRS - LOT 29 CCP

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: JT Builders, LLC Project Name: Custom Model: 1740
Lot/Block: 29 Subdivision: Cannon Creek Place
Address: TBD, TBD
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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

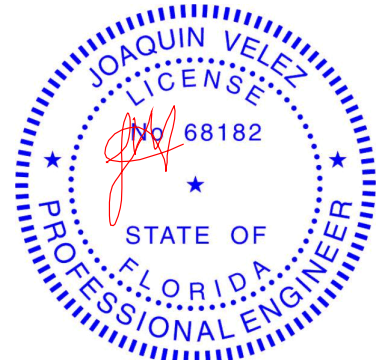
This package includes 33 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T22520404	CJ01	1/19/21	23	T22520426	T11	1/19/21
2	T22520405	CJ01A	1/19/21	24	T22520427	T12	1/19/21
3	T22520406	CJ03	1/19/21	25	T22520428	T13	1/19/21
4	T22520407	CJ03A	1/19/21	26	T22520429	T14	1/19/21
5	T22520408	CJ05	1/19/21	27	T22520430	T15	1/19/21
6	T22520409	CJ05A	1/19/21	28	T22520431	T16	1/19/21
7	T22520410	EJ01	1/19/21	29	T22520432	T17	1/19/21
8	T22520411	EJ02	1/19/21	30	T22520433	T18	1/19/21
9	T22520412	HJ10	1/19/21	31	T22520434	T19	1/19/21
10	T22520413	HJ10A	1/19/21	32	T22520435	T20	1/19/21
11	T22520414	T01	1/19/21	33	T22520436	T21	1/19/21
12	T22520415	T01G	1/19/21				
13	T22520416	T02	1/19/21				
14	T22520417	T03	1/19/21				
15	T22520418	T04	1/19/21				
16	T22520419	T04G	1/19/21				
17	T22520420	T05	1/19/21				
18	T22520421	T06	1/19/21				
19	T22520422	T07	1/19/21				
20	T22520423	T08	1/19/21				
21	T22520424	T09	1/19/21				
22	T22520425	T10	1/19/21				

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, 2023.

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.



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

January 19, 2021

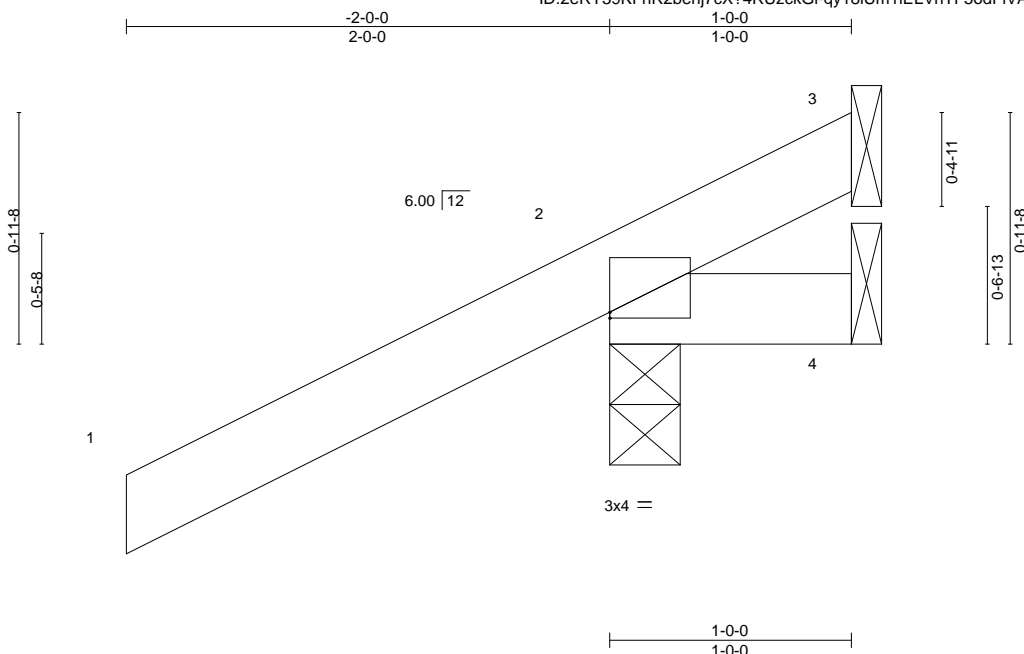
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520404
2613781	CJ01	JACK-OPEN	2	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:03 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-qy18lUm1lELVhTF5odFIVAGKkPWz00ab4BlkZ4ztkk



Scale = 1:9.5

Plate Offsets (X,Y)--		[2:0-0-0,0-0-5]									
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 0.25		Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.07		Vert(CT)	0.00 7	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

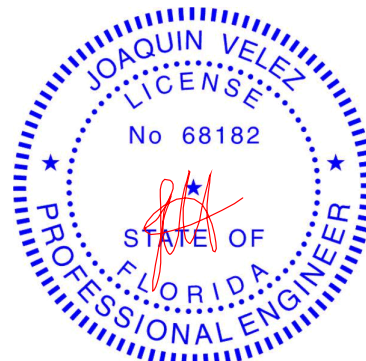
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=45(LC 12)
Max Uplift 3=28(LC 1), 2=94(LC 12), 4=45(LC 1)
Max Grav 3=14(LC 8), 2=254(LC 1), 4=26(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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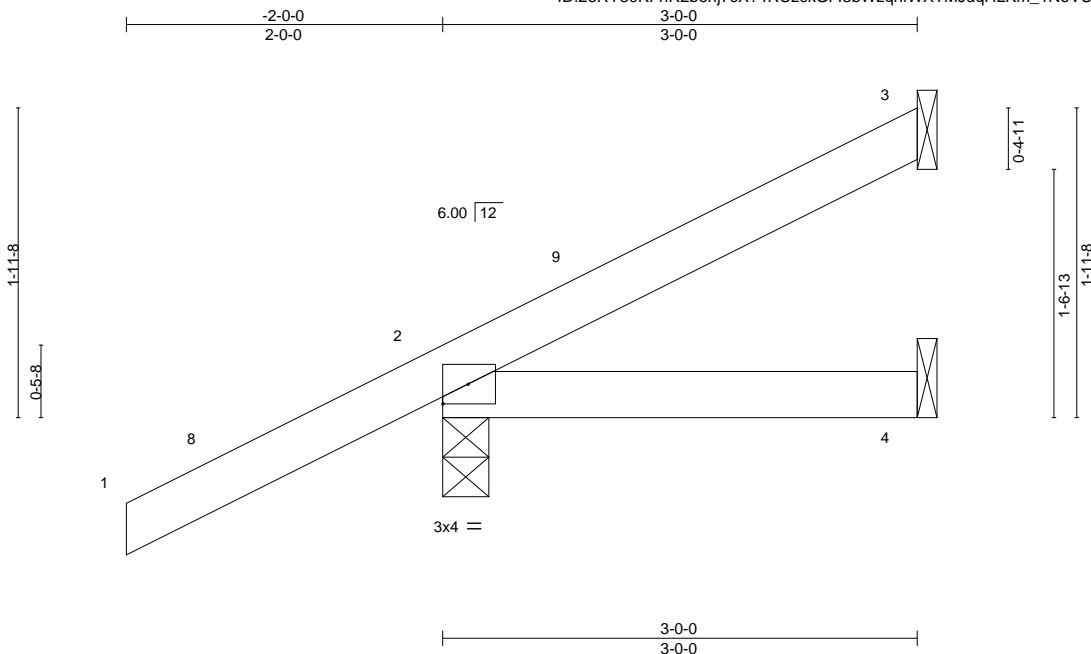
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520406
2613781	CJ03	JACK-OPEN	2	1		
Job Reference (optional)						

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:04 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-I8bWzqnfWXTMJdqHLKm_1NoVUpsDITqJr1H5Wztkj



Scale = 1:14.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
									Weight: 13 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

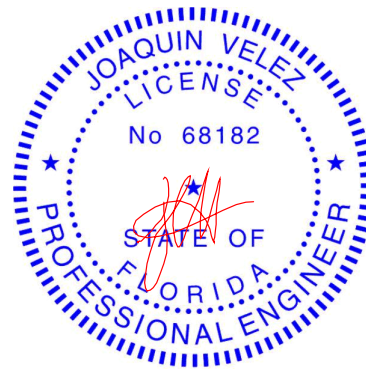
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=78(LC 12)
Max Uplift 3=33(LC 12), 2=71(LC 12)
Max Grav 3=53(LC 1), 2=253(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Date:

January 19,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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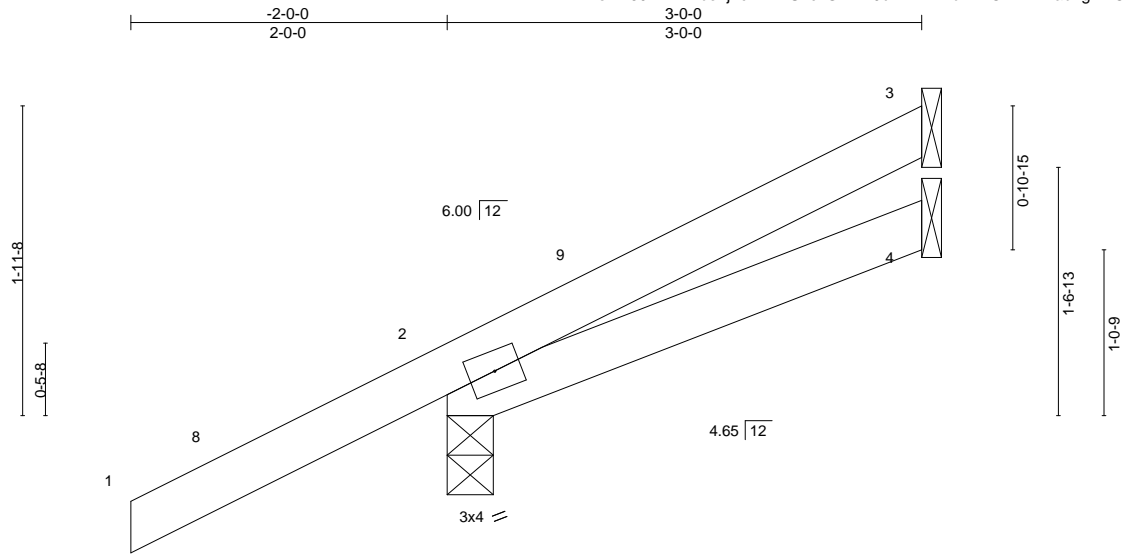
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520407
2613781	CJ03A	JACK-OPEN	2	1		
Job Reference (optional)						

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:05 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-mK9uAAnHHrDxnOTv2HDabLgEDCOUw4tXVnrezztkti



Scale = 1:14.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
									Weight: 13 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

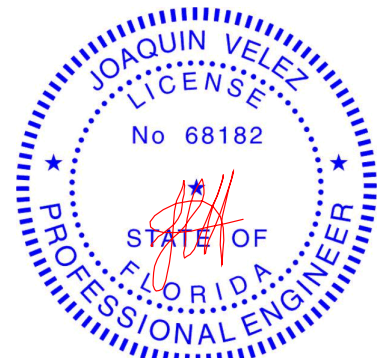
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=78(LC 12)
Max Uplift 3=-32(LC 12), 2=-68(LC 12)
Max Grav 3=51(LC 1), 2=253(LC 1), 4=47(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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January 19,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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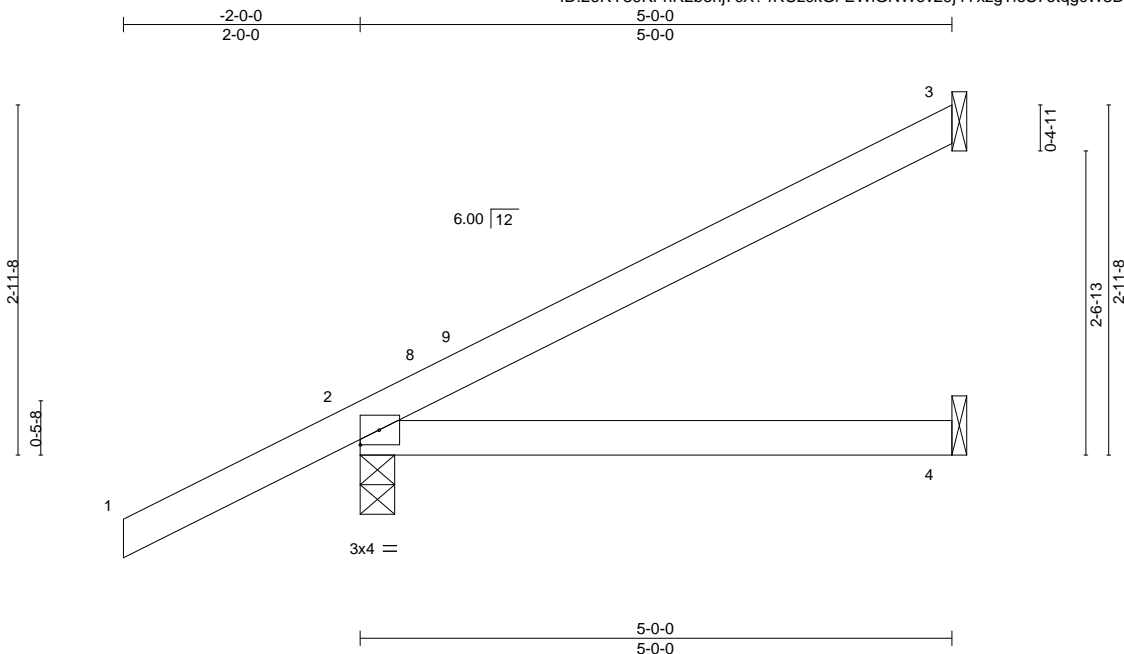
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520408
2613781	CJ05	JACK-OPEN	2	1		
Job Reference (optional)						

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:06 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-EWtGNWov29j4YxgzTloS7otqgcW3DNK1m9WOAPztkth



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.02	4-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.24	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 19 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

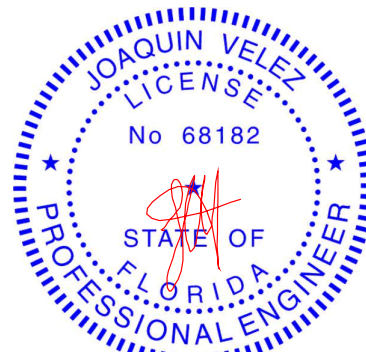
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=111(LC 12)
Max Uplift 3=64(LC 12), 2=74(LC 12)
Max Grav 3=109(LC 1), 2=313(LC 1), 4=87(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Date:

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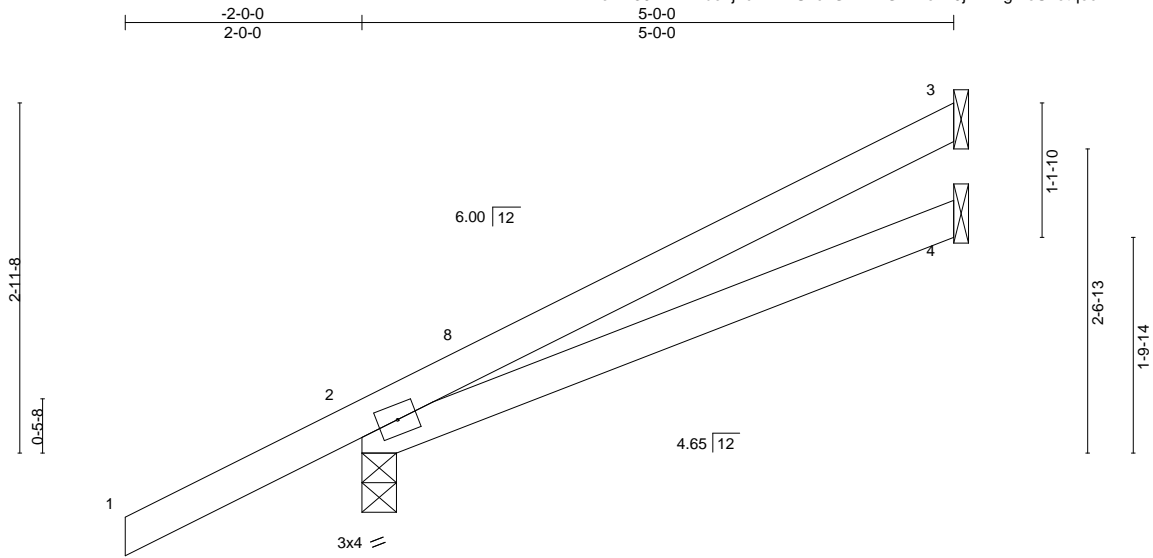
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Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520409
2613781	CJ05A	JACK-OPEN	2	1		
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,						8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:06 2021 Page 1
						ID:2eRY39KFhR2benj7cX?4RUzckGi-EWiGNWov29j4YxzgTloS7otqocWDDNK1m9WOAPztkth
Job Reference (optional)						



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	0.03	4-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code FBC2020/TPI2014						Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

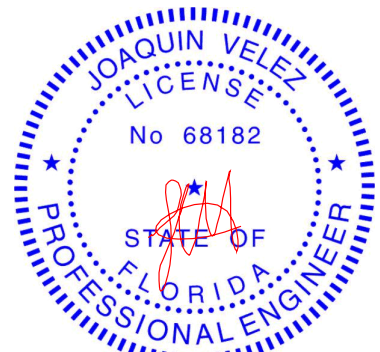
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=111(LC 12)
Max Uplift 3=63(LC 12), 2=72(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=86(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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6904 Parke East Blvd.
Tampa, FL 36610

Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:07 2021 Page 1
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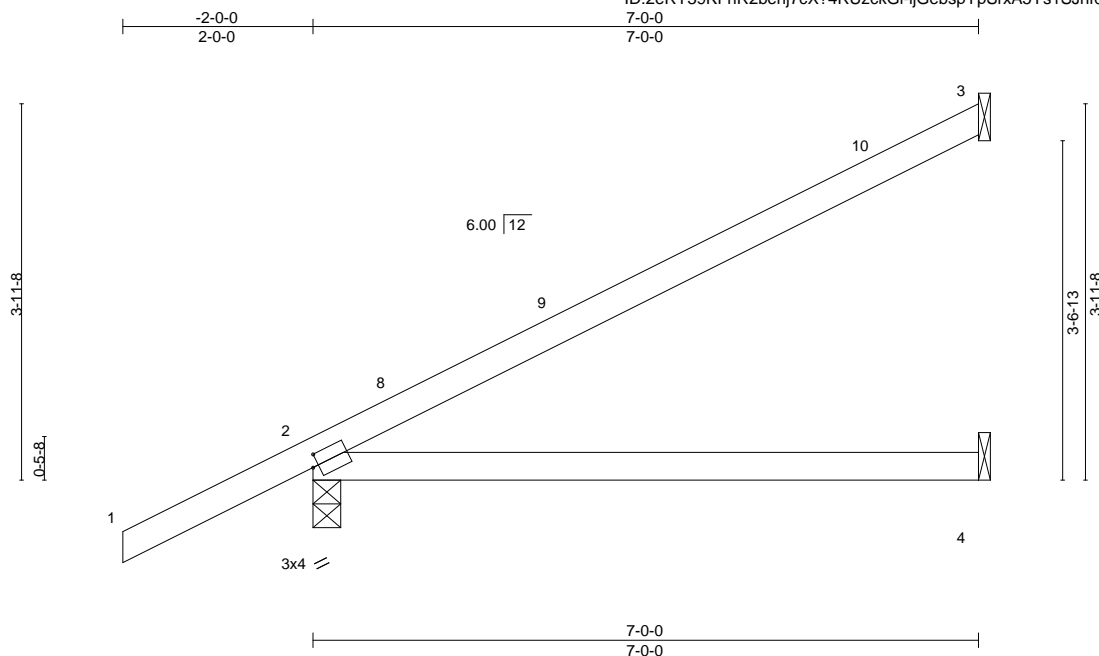


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.10	4-7	>871	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>388	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 26 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

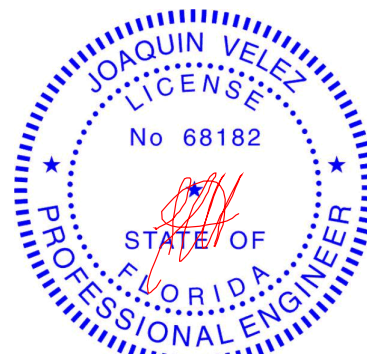
(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=140(LC 12)
 Max Uplift 3=83(LC 12), 2=84(LC 12)
 Max Grav 3=161(LC 1), 2=380(LC 1), 4=125(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Date:

January 19, 2021



WARNING: Velly design parameters and KNEED NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC MIP 743 (Rev. 3/15/2020) BE USED ONLY FOR DESIGN VALIDATION. THIS DESIGN IS BASED ON THE ASSUMPTIONS AND LIMITATIONS OF THE DESIGNER. THE DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND BRACING. THE DESIGNER MUST VERIFY THE APPLICABILITY OF THE 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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



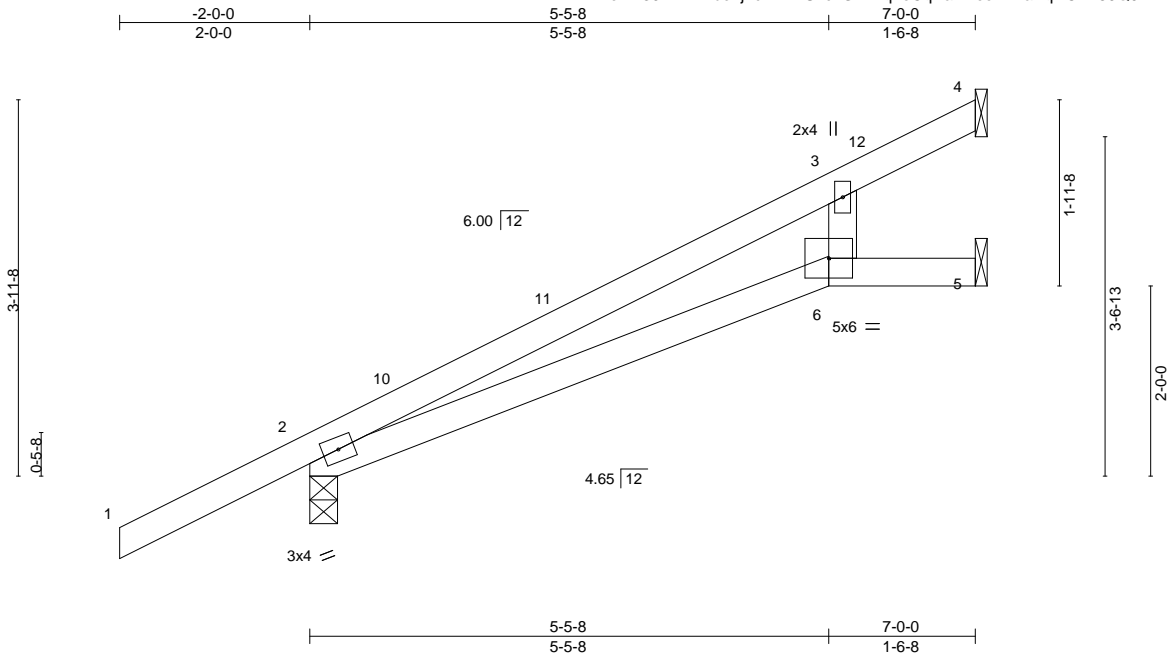
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520411
2613781	EJ02	JACK-PARTIAL	9	1		
Job Reference (optional)						

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.14 6-9	>581	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.23 6-9	>366	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.06 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

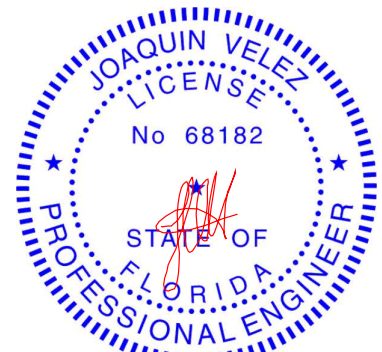
REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 4=51(LC 12), 2=82(LC 12), 5=30(LC 12)
Max Grav 4=159(LC 1), 2=380(LC 1), 5=82(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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Date:

January 19,2021

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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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



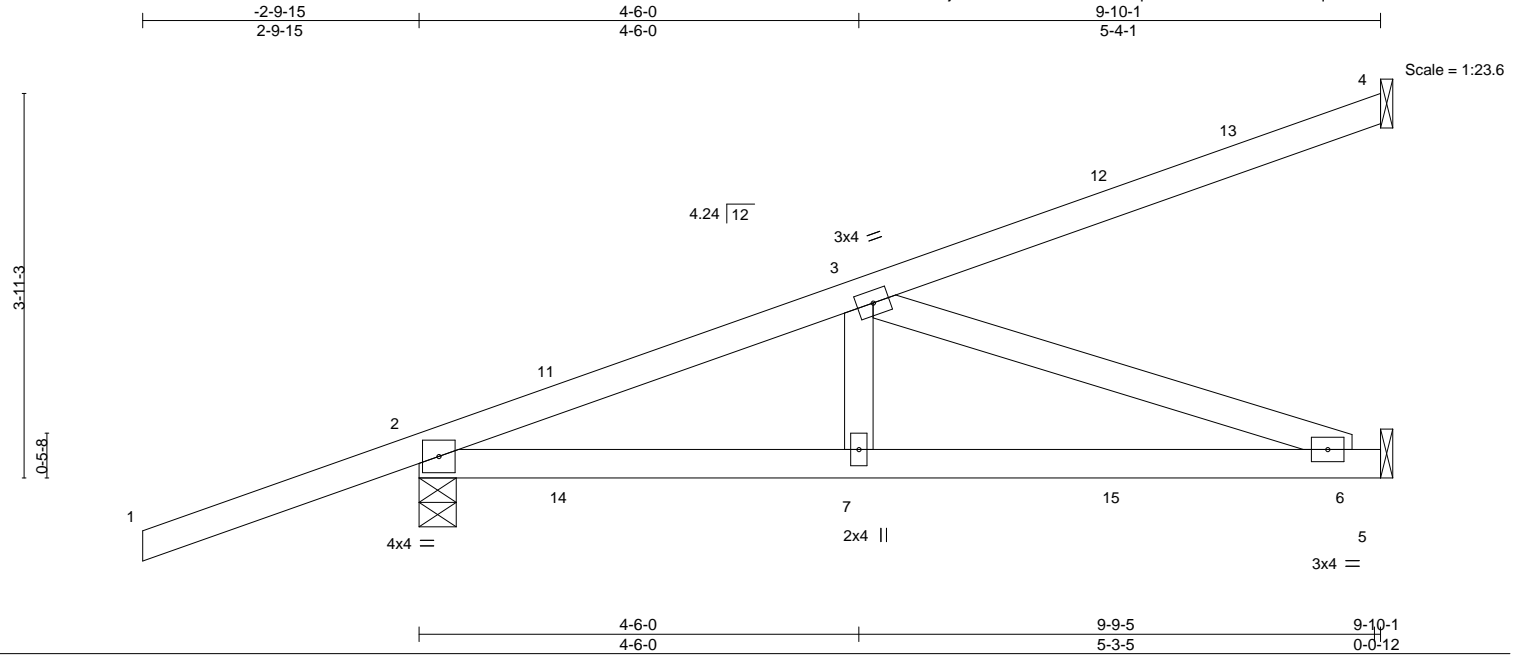
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520412
2613781	HJ10	DIAGONAL HIP GIRDER	1	1		

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.05 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.12 6-7	>941	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.33	Horz(CT)	-0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=155(LC 4)
Max Uplift 4=78(LC 4), 2=-177(LC 4), 5=-46(LC 8)
Max Grav 4=152(LC 1), 2=462(LC 1), 5=265(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

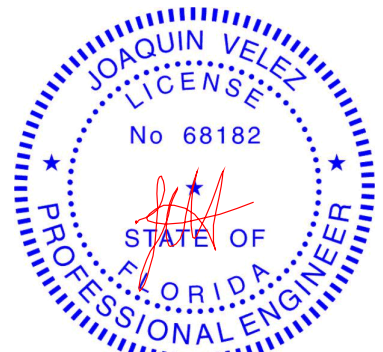
TOP CHORD 2-3=-592/149
BOT CHORD 2-7=-183/534, 6-7=-183/534
WEBS 3-6=-565/193

NOTES-

- 1) Wind: ASCE 7-16; 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; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=177.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 104 lb up at 1-6-1, 54 lb down and 104 lb up at 1-6-1, 19 lb down and 34 lb up at 4-4-0, 19 lb down and 34 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 18 lb down and 73 lb up at 1-6-1, 18 lb down and 73 lb up at 1-6-1, 24 lb down and 3 lb up at 4-4-0, 24 lb down and 3 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=7(F=3, B=3) 11=51(F=26, B=26) 12=-66(F=-33, B=-33) 14=68(F=34, B=34) 15=-46(F=-23, B=-23)



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Date:

January 19,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520413
2613781	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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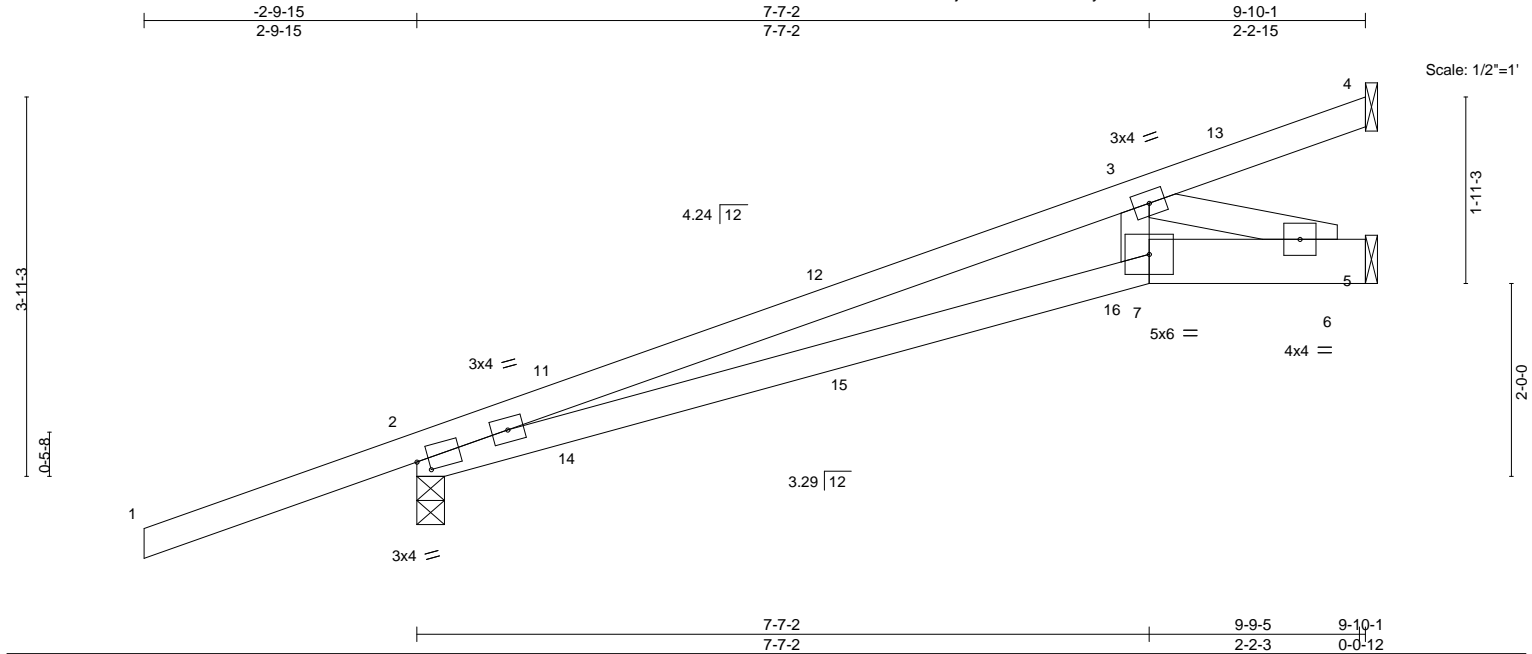


Plate Offsets (X,Y)--		[2:0-1-8,0-1-6]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.56		Vert(LL)	-0.09 7-10	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.55		Vert(CT)	-0.15 7-10	>792	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.23		Horz(CT)	0.03 5	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 41 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 5-7: 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-9-7 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-7, 5=Mechanical
 Max Horz 2=155(LC 4)
 Max Uplift 4=17(LC 28), 2=-174(LC 4), 5=-125(LC 8)
 Max Grav 4=48(LC 19), 2=462(LC 1), 5=379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

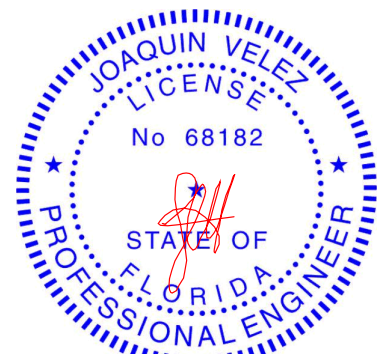
TOP CHORD 2-3=-1108/316
 BOT CHORD 2-7=-364/1052, 6-7=-356/1065
 WEBS 3-7=-47/473, 3-6=-1124/375

NOTES-

- 1) Wind: ASCE 7-16; 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; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=174, 5=125.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 105 lb up at 1-6-1, 53 lb down and 105 lb up at 1-6-1, 20 lb down and 33 lb up at 4-4-0, 20 lb down and 33 lb up at 4-4-0, and 41 lb down and 74 lb up at 7-1-15, and 41 lb down and 74 lb up at 7-1-15 on top chord, and 14 lb down and 72 lb up at 1-6-1, 14 lb down and 72 lb up at 1-6-1, 23 lb down and 2 lb up at 4-4-0, 23 lb down and 2 lb up at 4-4-0, and 41 lb down at 7-1-15, and 41 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 7-8=-20, 5-7=-20



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 Date:

January 19,2021

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520413
2613781	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S)
Standard

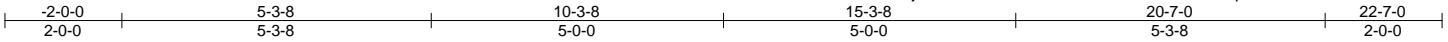
Concentrated Loads (lb)

Vert: 3=-63(F=-32, B=-32)
11=50(F=25, B=25)
14=69(F=35, B=35)
15=4(F=2, B=2)
16=-49(F=-24, B=-24)

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520414
2613781	T01	COMMON	4	1		

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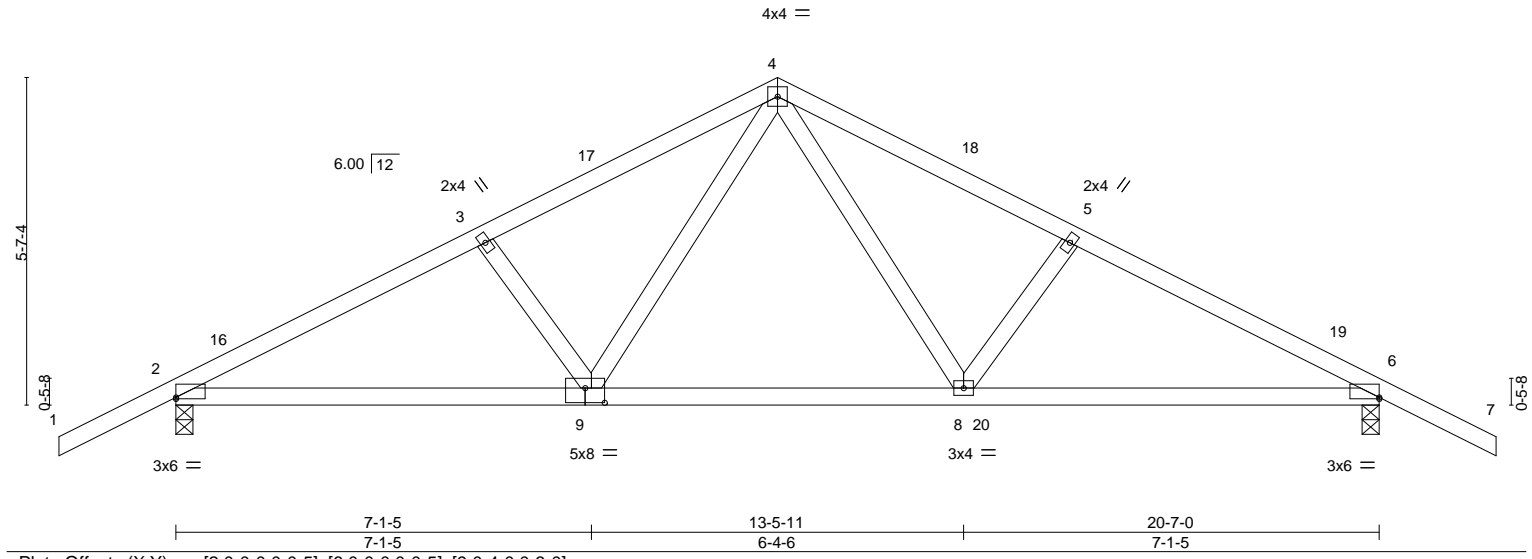


Plate Offsets (X,Y)--		[2:0-0-0,0-0-5], [6:0-0-0,0-0-5], [9:0-4-0,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.44	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(LL) -0.17 8-9 >999 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.25	Vert(CT) -0.32 8-9 >782 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.04 6 n/a n/a
		PLATES GRIP	
		MT20 244/190	
		Weight: 99 lb FT = 20%	

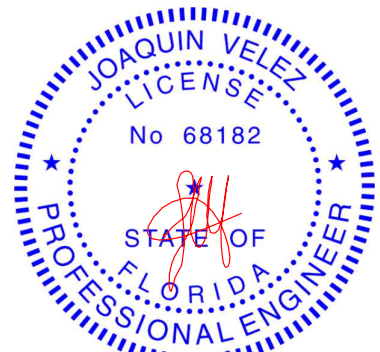
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=-89(LC 13)
	Max Uplift 2=-242(LC 12), 6=-243(LC 13)
	Max Grav 2=1071(LC 1), 6=1076(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1713/459, 3-4=-1570/462, 4-5=-1570/461, 5-6=-1719/462
BOT CHORD	2-9=-323/1470, 8-9=-162/1021, 6-8=-332/1476
WEBS	4-8=-174/650, 4-9=-171/635

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-3-8, Exterior(2R) 10-3-8 to 13-3-8, Interior(1) 13-3-8 to 22-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=242, 6=243.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)	
Vert:	1-4=-54, 4-7=-54, 9-10=-20, 9-20=-80(F=-60), 13-20=-20



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January 19,2021

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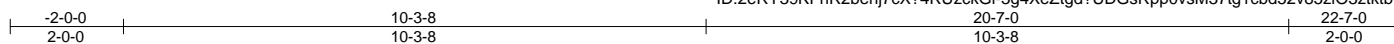
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520415
2613781	T01G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

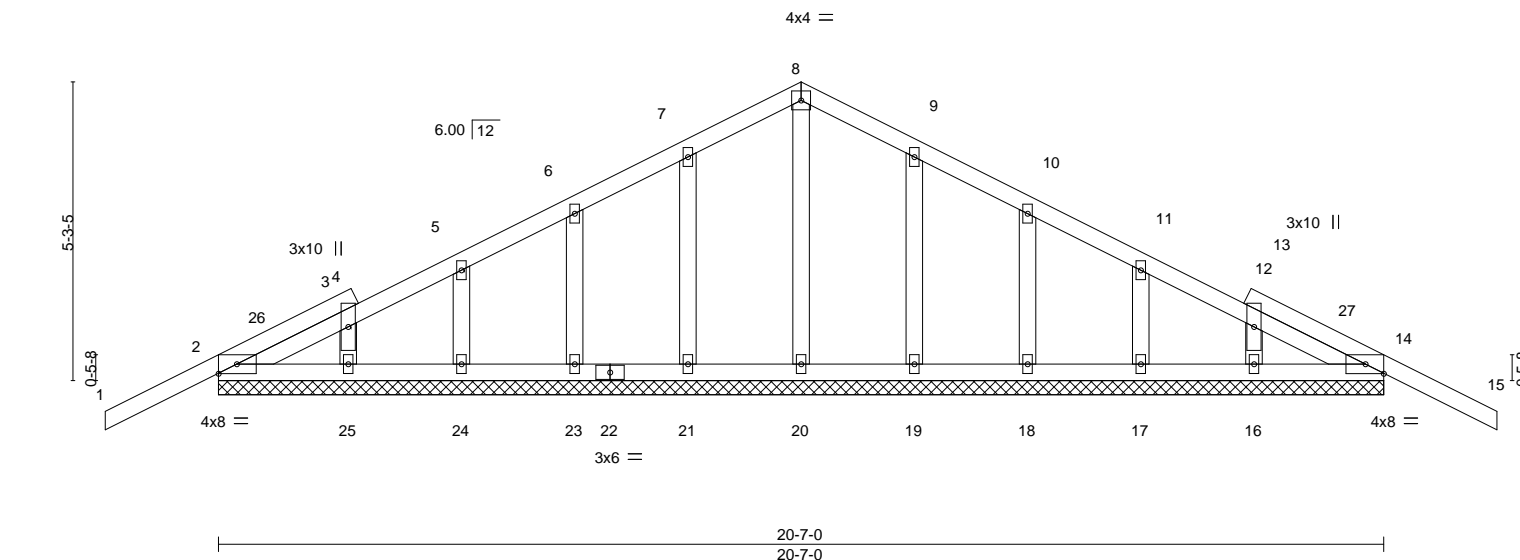
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:12 2021 Page 1

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Scale = 1:40.7



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 0.23	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.03	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

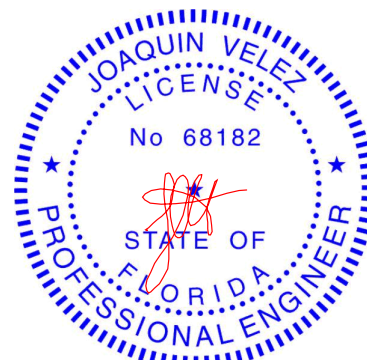
REACTIONS.

All bearings 20-7-0.
(lb) - Max Horz 2=84(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 10-3-8, Corner(3R) 10-3-8 to 13-3-8, Exterior(2N) 13-3-8 to 22-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.



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

January 19,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520416
2613781	T02	COMMON	3	1		

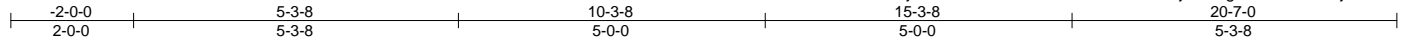
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

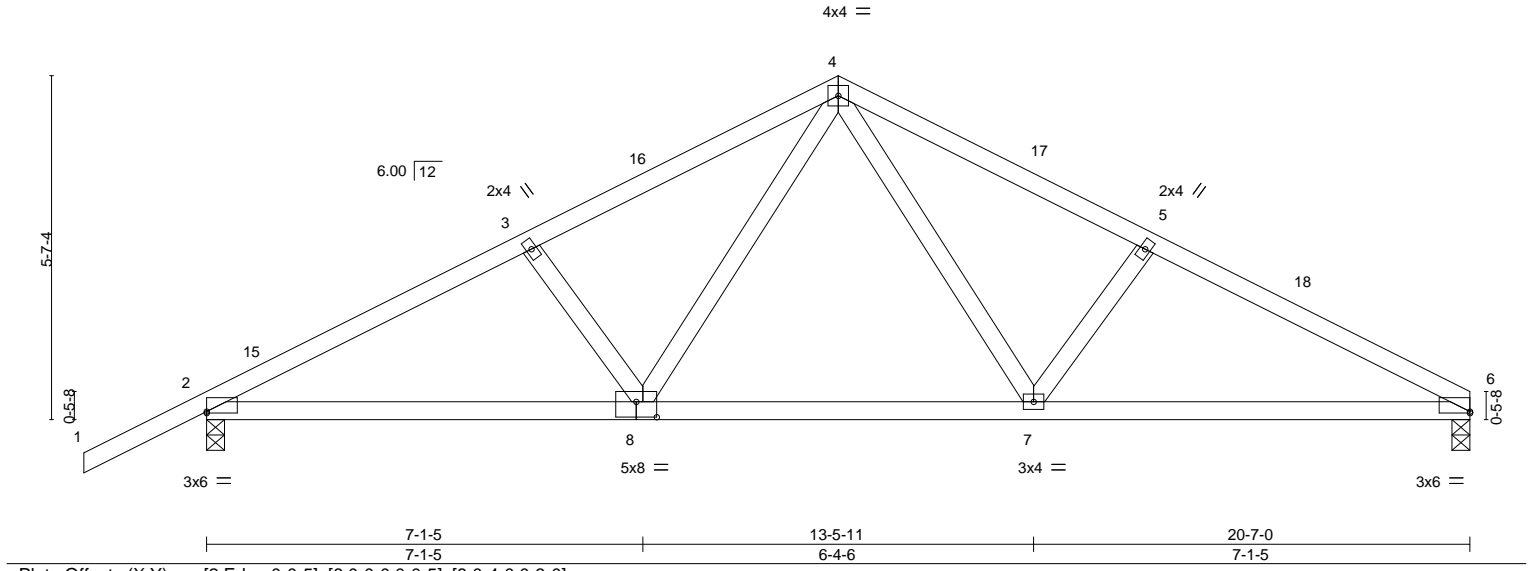
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:13 2021 Page 1

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Job Reference (optional)



Scale = 1:37.5



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 0.44	Vert(LL)	-0.16	7-8	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.31	7-8	>802	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.04	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						

Weight: 95 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=103(LC 16)
Max Uplift 6=197(LC 13), 2=242(LC 12)
Max Grav 6=950(LC 1), 2=1070(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

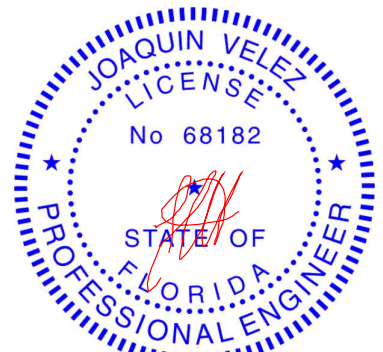
TOP CHORD 2-3=-1710/467, 3-4=-1566/470, 4-5=-1573/478, 5-6=-1725/479
BOT CHORD 2-8=-368/1468, 7-8=-202/1019, 6-7=-372/1487
WEBS 4-7=-179/657, 5-7=-253/161, 4-8=-168/635

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-3-8, Exterior(2R) 10-3-8 to 13-3-8, Interior(1) 13-3-8 to 20-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=197, 2=242.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20



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MiTek USA, Inc. FL Cert 6634
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January 19,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520417
2613781	T03	COMMON	4	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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Job Reference (optional)

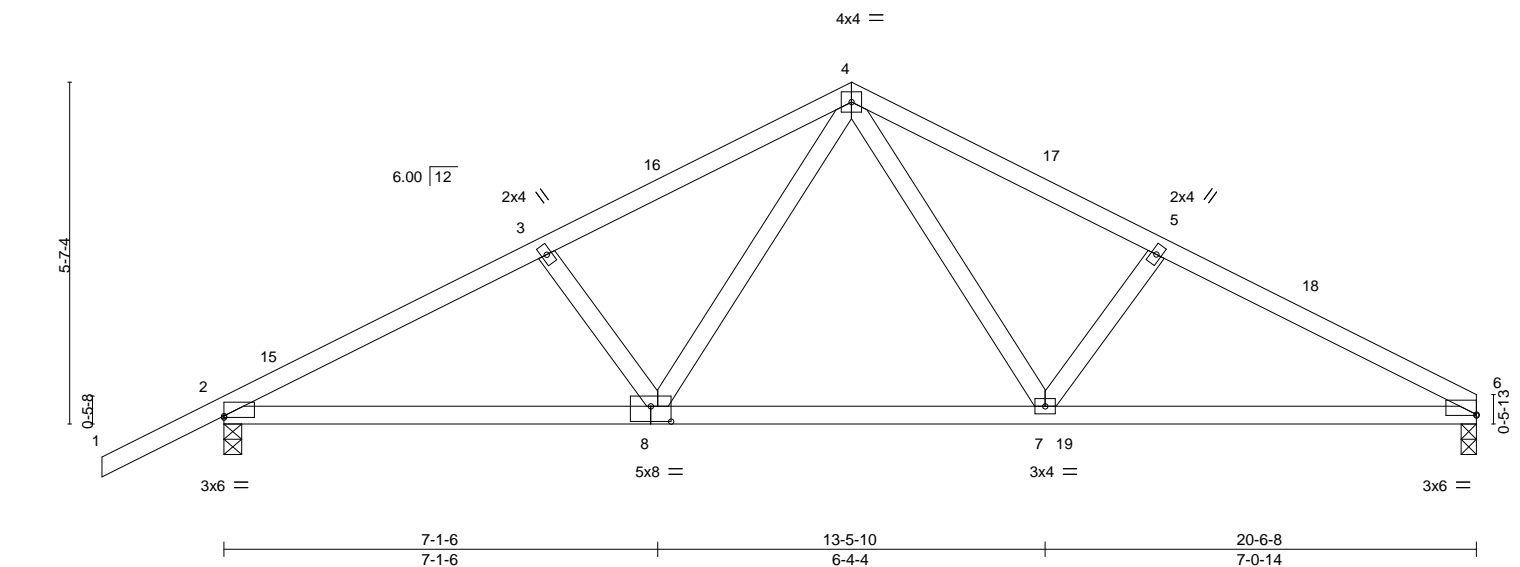
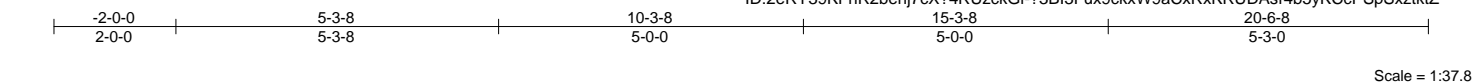


Plate Offsets (X,Y)-- [2:0-0-0,0-0-5], [6:0-0-0,0-0-3], [8:0-4-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.16	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.31	7-8	>792	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS.

(size) 6=0-3-0, 2=0-3-8
Max Horz 2=103(LC 12)
Max Uplift 6=200(LC 13), 2=243(LC 12)
Max Grav 6=962(LC 1), 2=1075(LC 1)

FORCES.

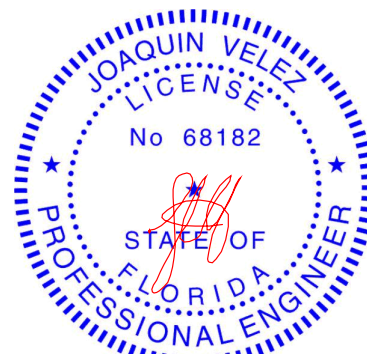
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1720/471, 3-4=-1577/474, 4-5=-1587/484, 5-6=-1739/485
BOT CHORD 2-8=-373/1477, 7-8=-206/1028, 6-7=-378/1497
WEBS 4-7=-183/668, 4-8=-168/635

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-3-8, Exterior(2R) 10-3-8 to 13-3-8, Interior(1) 13-3-8 to 20-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=200, 2=243.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 8-12=-20, 8-19=-80(F=60), 9-19=-20



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

January 19,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



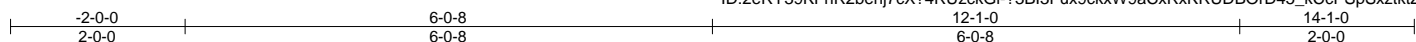
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520418
2613781	T04	COMMON	2	1		

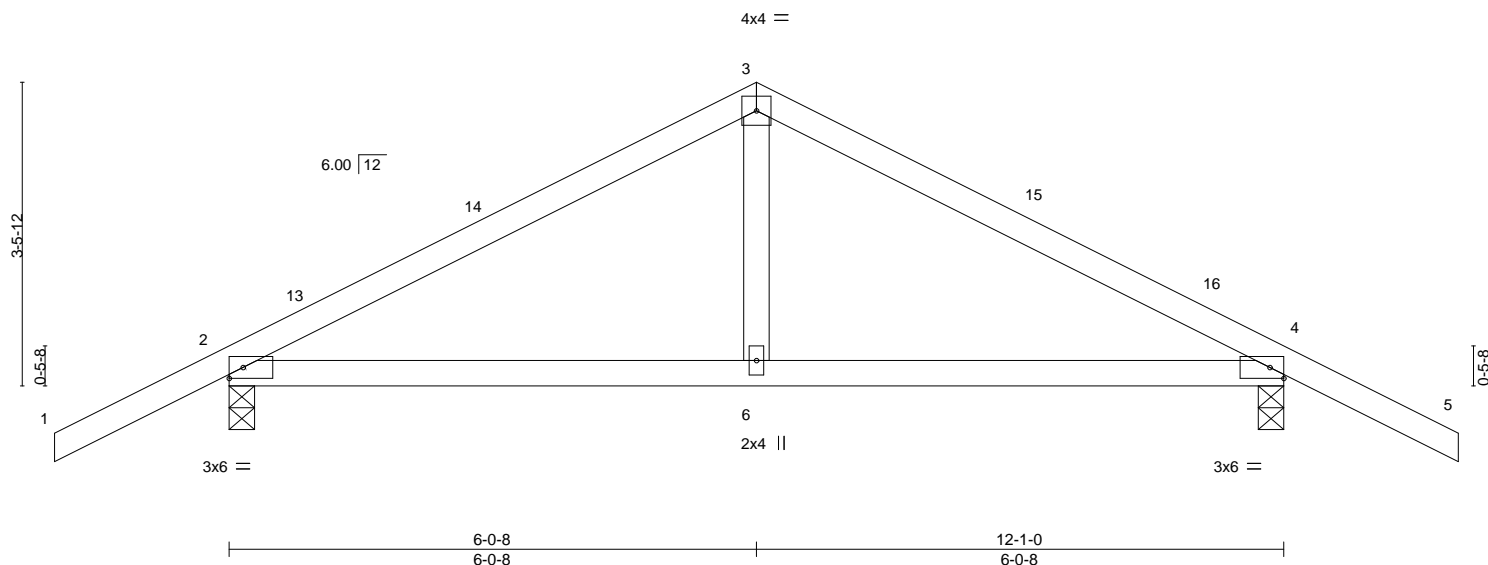
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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Scale = 1:26.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.02 6-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.05 6-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 49 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

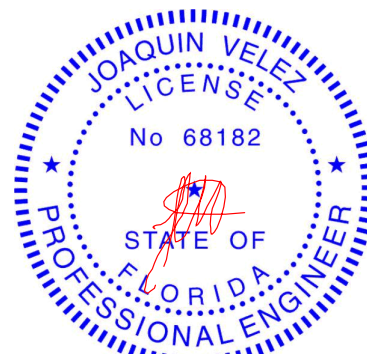
(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-58(LC 13)
Max Uplift 2=-130(LC 12), 4=-130(LC 13)
Max Grav 2=555(LC 1), 4=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-573/209, 3-4=-573/209
BOT CHORD 2-6=-59/448, 4-6=-59/448
WEBS 3-6=0/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-0-8, Exterior(2R) 6-0-8 to 9-0-8, Interior(1) 9-0-8 to 14-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 4=130.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



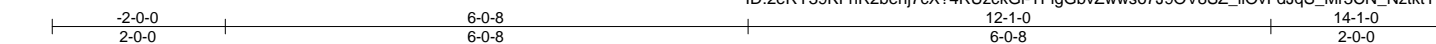
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520419
2613781	T04G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:15 2021 Page 1

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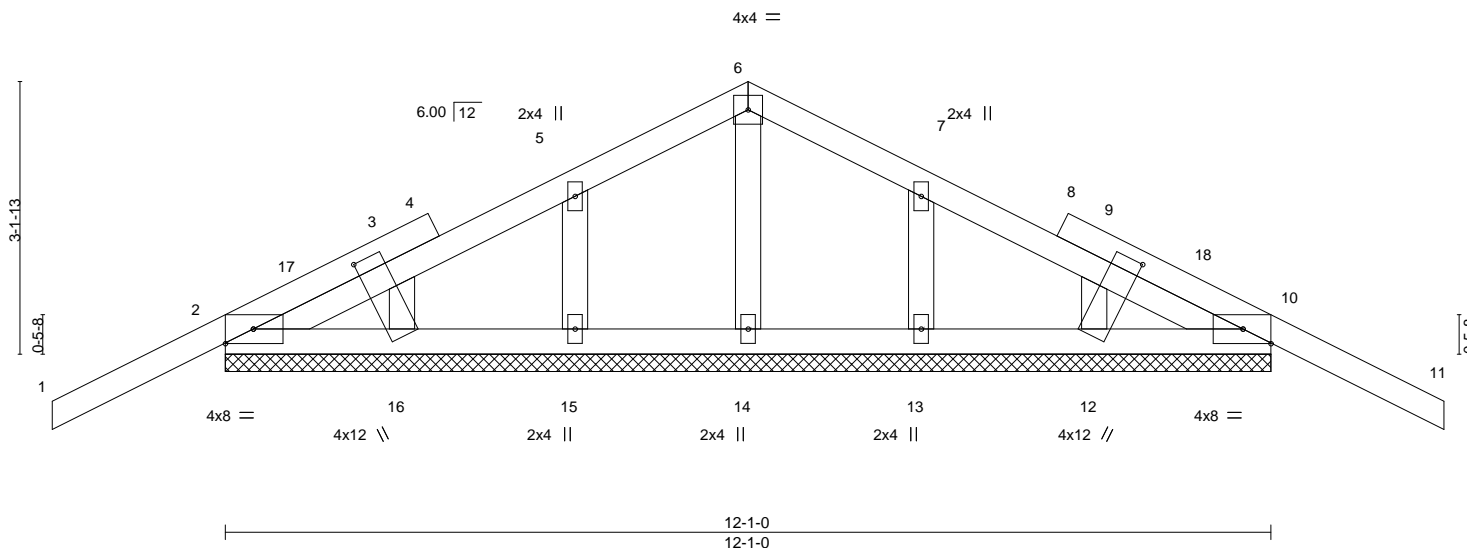


Plate Offsets (X,Y)-- [12:0-1-12,1-4-7], [16:0-1-12,1-4-7]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.02 11 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.03 11 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00 10 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S				Weight: 62 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

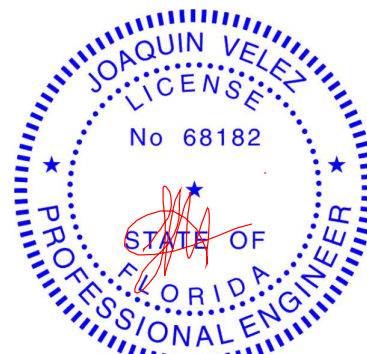
REACTIONS.

- All bearings 12-1-0.
(lb) - Max Horz 2=53(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 6-0-8, Corner(3R) 6-0-8 to 9-0-8, Exterior(2N) 9-0-8 to 14-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.



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Date:

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



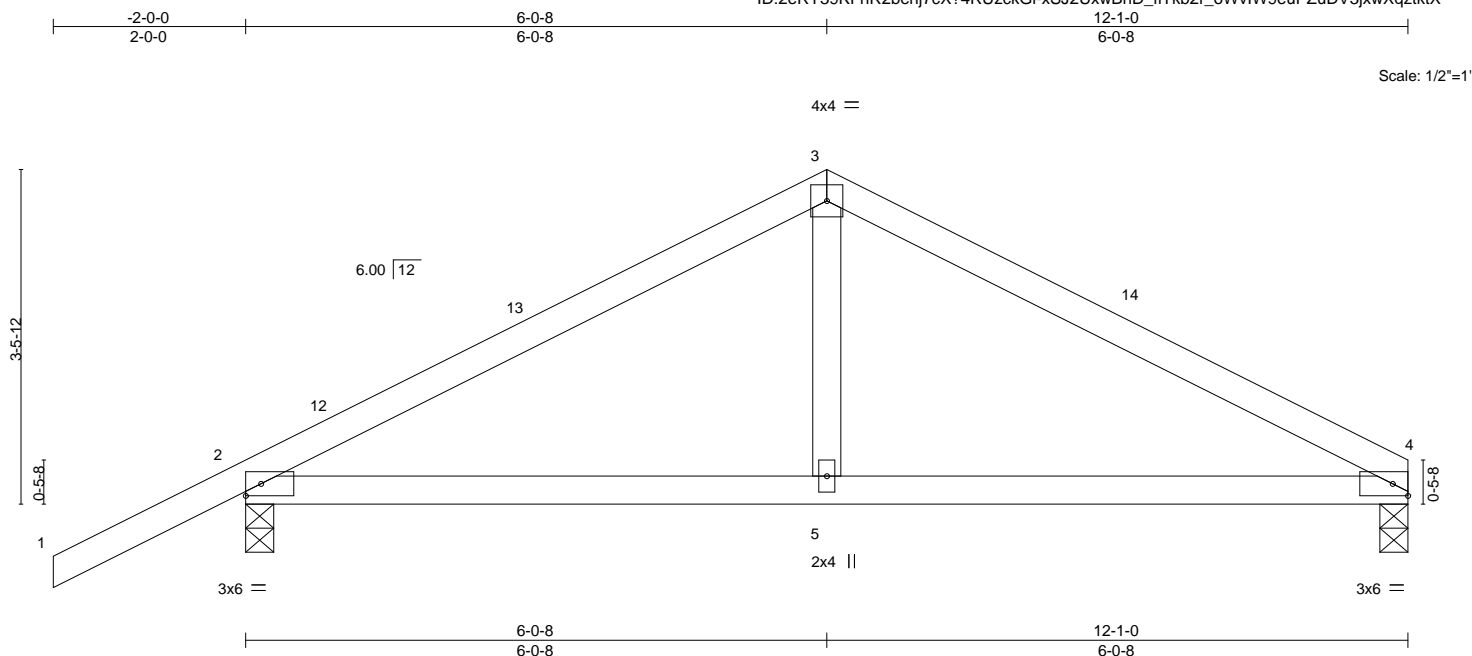
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520420
2613781	T05	COMMON	4	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:16 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-xSJ2UxwBhD_fITkb2r_oWvIW9euPZuDV3jxwXqztkX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	-0.04	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.08	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

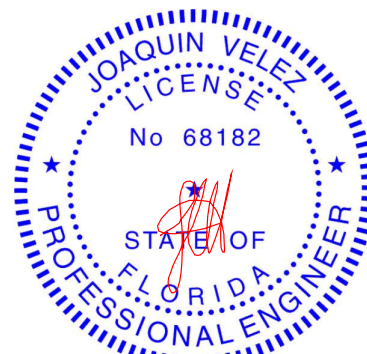
(size) 4=0-3-8, 2=0-3-8
Max Horz 2=72(LC 16)
Max Uplift 4=86(LC 13), 2=132(LC 12)
Max Grav 4=438(LC 1), 2=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-599/229, 3-4=-595/240
BOT CHORD 2-5=-137/472, 4-5=-137/472
WEBS 3-5=-0/267

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2'-0" to 1'-0", Interior(1) 1'-0" to 6'-0", Exterior(2R) 6'-0" to 9'-0", Interior(1) 9'-0" to 12'-1" zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=132.



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

January 19, 2021

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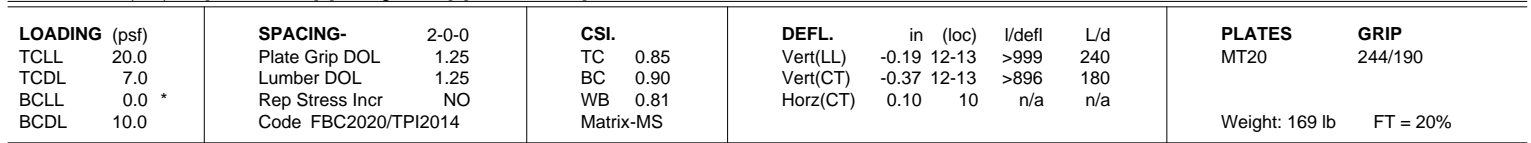
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:17 2021 Page 1
 ID:2eRY39KFhR2benj7cX?4RUzckGi-PetQhHxpSX6WNdJncZV137rZp25DI9TeInHt3GztkW
 -2-0-0 3-8-14 7-0-0 11-10-0 17-5-11 23-1-8 27-11-8
 2-0-0 3-8-14 3-3-2 4-10-0 5-7-11 5-7-13 4-10-0
 Scale = 1:50.4

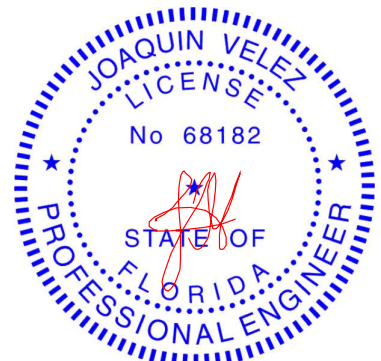


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-3770/929, 3-4=-3623/886, 4-5=-3266/826, 5-6=-4249/1028, 6-8=-3145/750
BOT CHORD	2-13=-902/3319, 12-13=-1082/4184, 11-12=-1041/4003, 10-11=-642/2424
WEBS	4-13=-208/1223, 5-13=-1202/384, 5-12=0/300, 6-12=-20/453, 6-11=-1219/424, 8-11=-223/1426, 8-10=-3004/798

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=562, 2=507.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 87 lb up at 7-0-0, 107 lb down and 87 lb up at 9-0-12, 107 lb down and 87 lb up at 11-0-12, 107 lb down and 87 lb up at 13-0-12, 107 lb down and 87 lb up at 15-0-12, 107 lb down and 83 lb up at 17-0-12, 107 lb down and 87 lb up at 19-0-12, 107 lb down and 87 lb up at 21-0-12, 107 lb down and 87 lb up at 23-0-12, and 107 lb down and 87 lb up at 25-0-12, and 114 lb down and 87 lb up at 27-0-12 on top chord, and 294 lb down and 73 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, and 85 lb down at 25-0-12, and 90 lb down at 27-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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January 19, 2021

Continued on page 2

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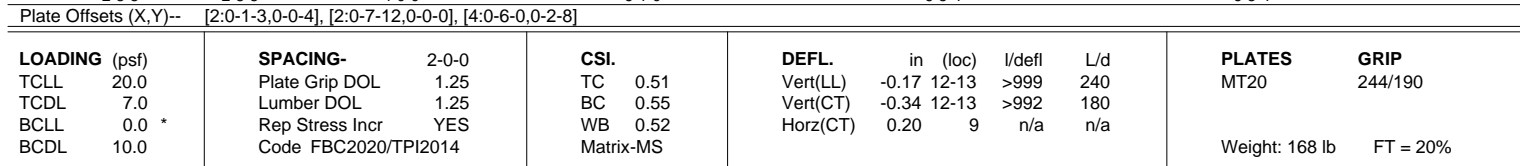


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520421
2613781	T06	HALF HIP GIRDER	1	1	Job Reference (optional)	

- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-9=-54, 10-14=-20
Concentrated Loads (lb)
Vert: 4=-107(F) 7=-107(F) 13=-280(F) 11=-60(F) 8=-107(F) 17=-107(F) 18=-107(F) 19=-107(F) 20=-107(F) 21=-107(F) 22=-107(F) 23=-107(F) 24=-114(F) 25=-60(F) 26=-60(F) 27=-60(F) 28=-60(F) 29=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 33=-62(F)

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:19 2021 Page 1
 ID:2eRY39KFhR2benj7cX?4RUzckGi-M1?B6yy3_8MEcxT9k_XV8Yw?astGm7RxlqAa79ztktU
 2-3-8 5-0-0 9-0-0 15-1-0 21-6-4 27-11-8
 2-3-8 2-8-8 4-0-0 6-1-0 6-5-4 6-5-4
 Scale: 1/4"=1'



REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=152(LC 12)
 Max Uplift 1=-225(LC 12), 9=-252(LC 9)
 Max Grav 1=1030(LC 1), 9=1024(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

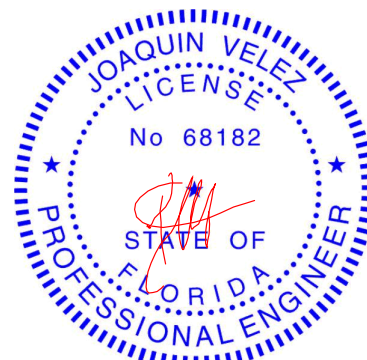
TOP CHORD 2-19=-567/27, 2-3=-2877/713, 3-4=-1982/473, 4-5=-1967/476, 5-7=-1939/469,
 7-8=-1106/268, 8-9=-969/266

BOT CHORD 2-14=-786/2725, 13-14=-786/2725, 12-13=-448/1726, 5-12=-348/162

WEBS 4-13=-93/515, 4-12=-144/393, 10-12=-251/1021, 7-12=-287/938, 7-10=-843/284,
 8-10=-329/1362, 3-13=-1089/365

- NOTES-**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Vase: ASCE 7-16; 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(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 27-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=225, 9=252.



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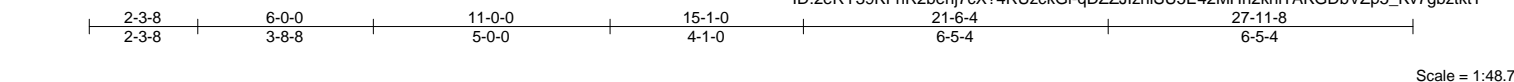
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520423
2613781	T08	HALF HIP	1	1		

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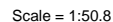
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Job Reference (optional)



8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:21 2021 Page 1

ID:2eRY39KFhR2beni7cX?4RUzckGi-IP6xXe KWmcyrEdYrPZzDz?KVfYiEwdED fhC1ztktS



FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-18=603/0, 2-3=-2598/598, 3-4=-1587/360, 4-5=-1336/348, 5-6=-1334/350,
6-7=-841/178, 7-8=-1009/254

BOT CHORD 2-13=-720/2420, 12-13=-720/2420, 11-12=-354/1347, 5-11=-264/126

WEBS 3-13=0/314, 3-12=-1180/400, 4-12=-117/635, 9-11=-180/738, 6-11=-230/648
6-9=-796/263, 7-9=-258/1217

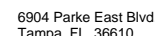
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 27-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=220, 8=240.



January 19, 2021



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Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520425
2613781	T10	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:22 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-mbgJk_?yH3koTOckP64CmAYVB3uzzV?OSeOEKuztkR

Job Reference (optional)

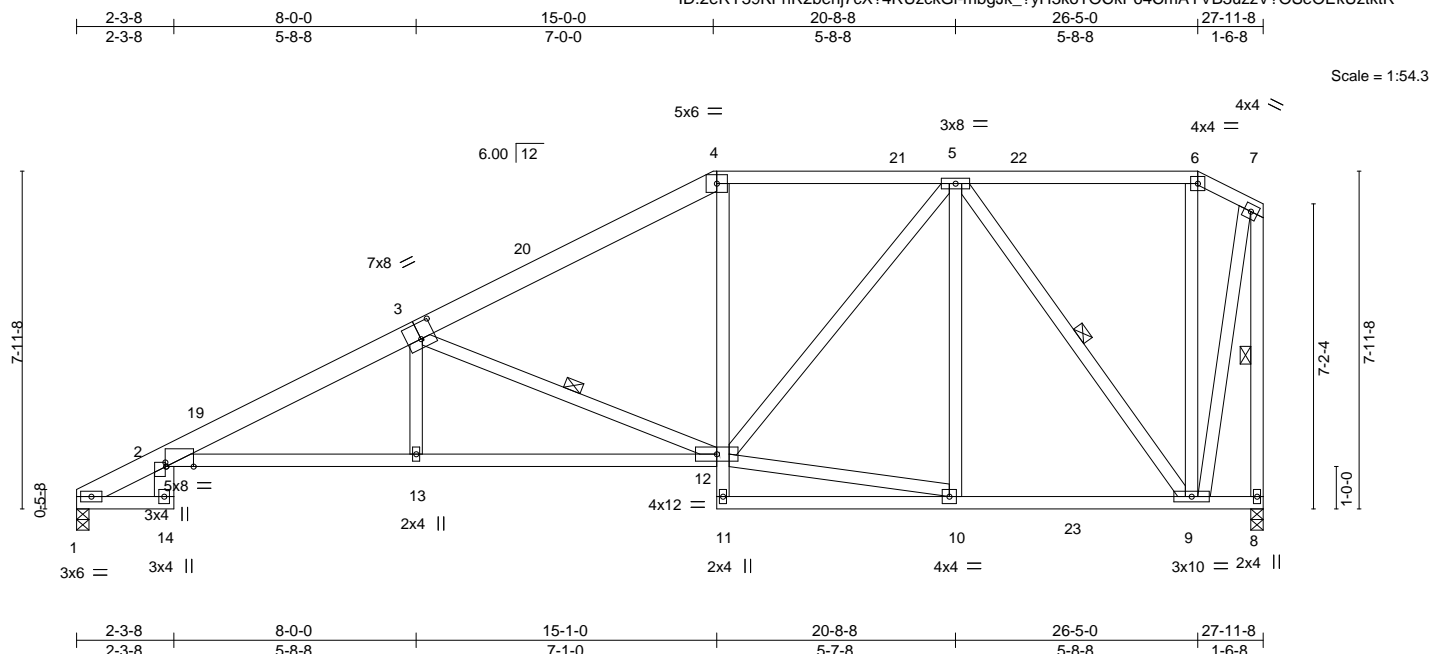


Plate Offsets (X,Y)-- [2:0-7-12,0-0-0], [2:0-1-3,0-0-4], [3:0-4-0,0-4-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.29	2-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.51	2-13	>653	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.26	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4: 2x6 SP No.2, 1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x6 SP No.2, 2-12: 2x4 SP M 31, 4-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-14 oc bracing.
WEBS 1 Row at midpt 3-12, 5-9, 7-8

REACTIONS.

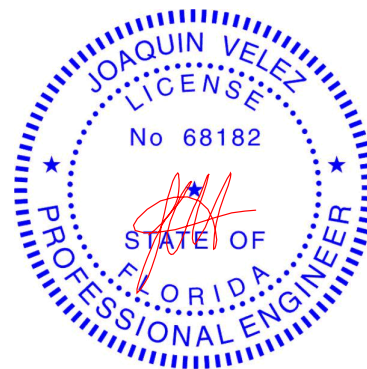
(size) 1=0-3-8, 8=0-3-8
Max Horz 1=238(LC 12)
Max Uplift 1=-187(LC 12), 8=-198(LC 9)
Max Grav 1=1112(LC 2), 8=1126(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-18=-607/0, 2-3=-2437/458, 3-4=-1387/257, 4-5=-1159/263, 6-7=-257/56, 7-8=-1125/216
BOT CHORD 2-13=-597/2248, 12-13=-597/2246, 4-12=-6/366, 9-10=-158/811
WEBS 3-13=0/362, 3-12=-1186/392, 10-12=-144/798, 5-12=-167/547, 5-9=-999/199, 7-9=-193/1025

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-1-0, Exterior(2R) 15-1-0 to 19-3-15, Interior(1) 19-3-15 to 26-5-0, Exterior(2E) 26-5-0 to 27-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=187, 8=198.



Joaquin Velez PE No.68182
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520426
2613781	T11	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:23 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-EoEiyK?a2Nsf5YnxzpcRJ05fpTEqiy3Xgl8oGwzktkQ

Job Reference (optional)

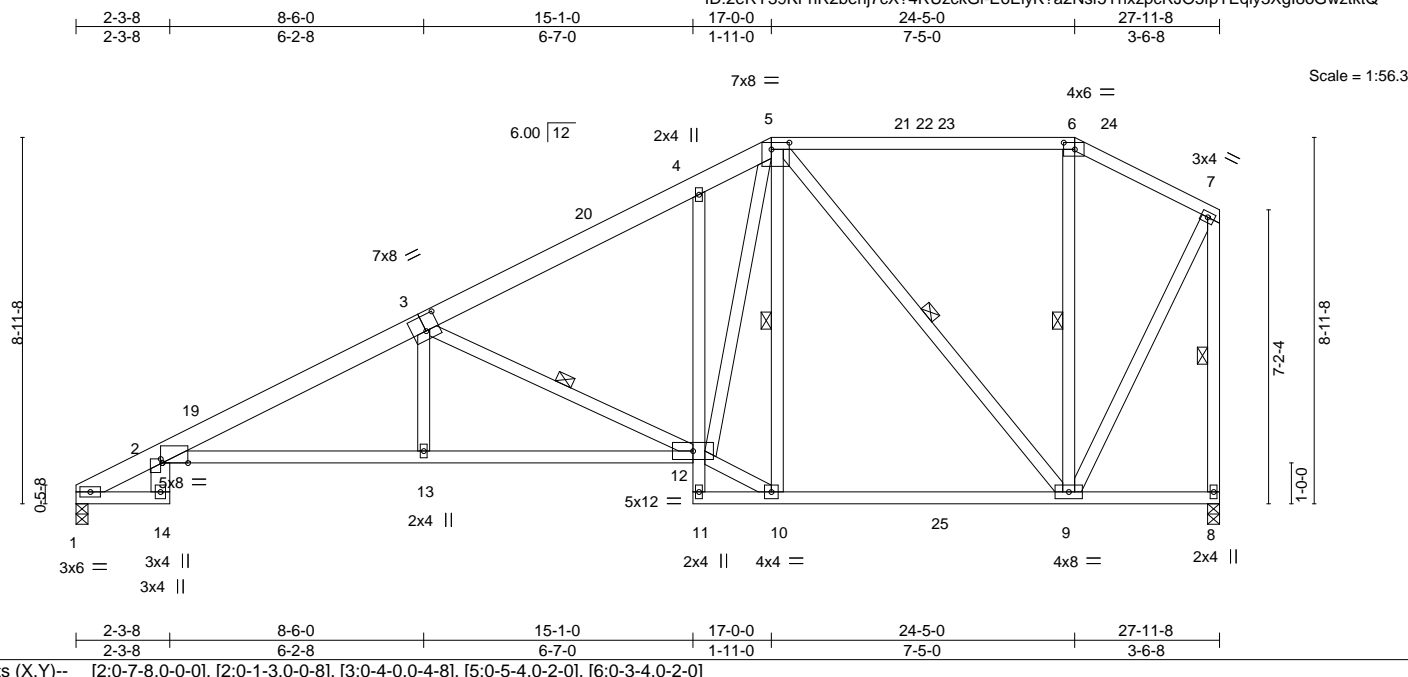


Plate Offsets (X,Y)-- [2:0-7-8,0-0-0], [2:0-1-3,0-0-8], [3:0-4-0,0-4-8], [5:0-5-4,0-2-0], [6:0-3-4,0-2-0]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.32	2-13	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.57	2-13	>590	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.28	8	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 207 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x6 SP No.2, 1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x6 SP No.2, 2-12: 2x4 SP M 31, 4-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-10, 5-9, 6-9, 7-8

REACTIONS.

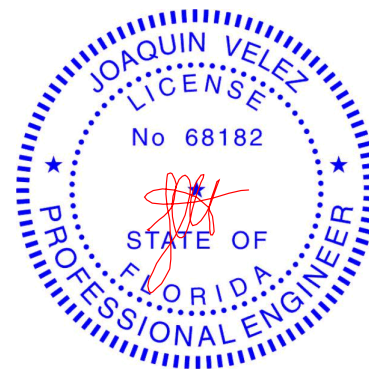
(size) 1=0-3-8, 8=0-3-8
Max Horz 1=253(LC 12)
Max Uplift 1=212(LC 12), 8=210(LC 12)
Max Grav 1=1122(LC 2), 8=1134(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-18=-613/0, 2-3=-2392/512, 3-4=-1402/307, 4-5=-1286/360, 5-6=-430/132, 6-7=-497/120, 7-8=-1107/235
BOT CHORD 2-13=-655/2202, 12-13=-655/2207, 9-10=-220/907
WEBS 3-13=0/358, 3-12=-1160/385, 10-12=-204/1030, 5-12=-364/1082, 5-10=-267/135, 5-9=-752/219, 7-9=-176/945

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-5-0, Exterior(2E) 24-5-0 to 27-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=212, 8=210.



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

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

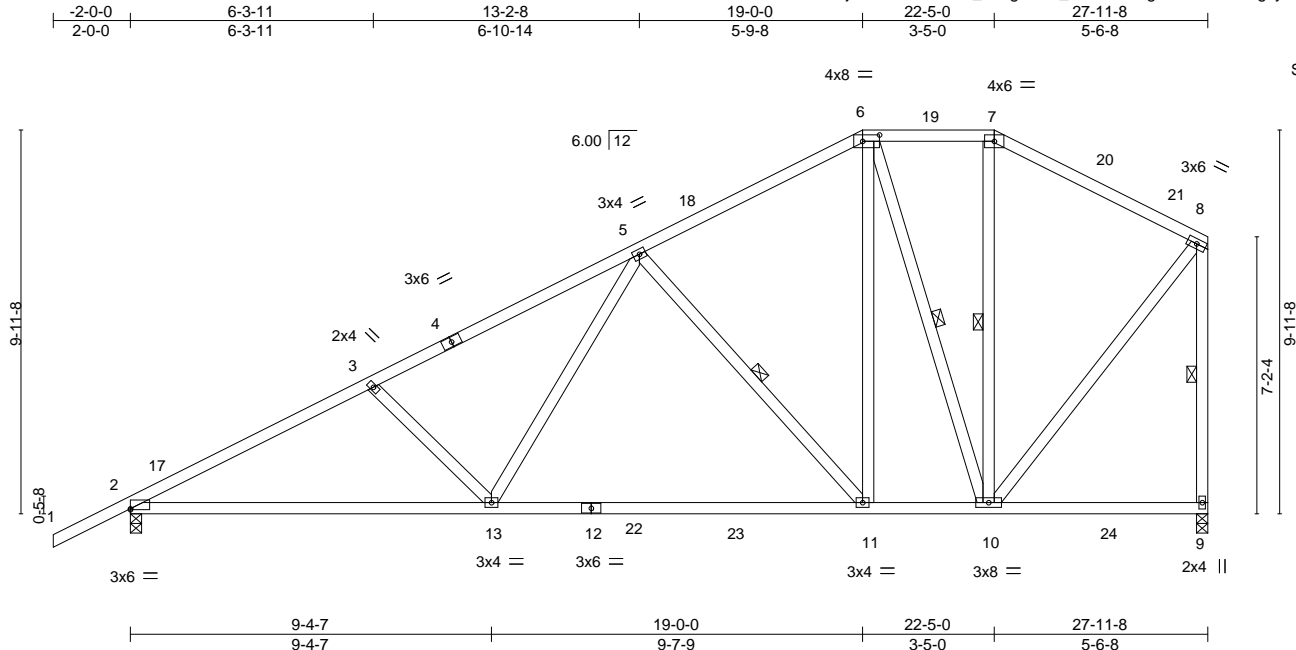
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520427
2613781	T12	PIGGYBACK BASE	1	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:24 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-i_o49g0Coh_WiIL7WX7grbdtMtWIRR7gytLpMztkIP



Scale = 1:59.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-5], [6:0-5-4,0-2-0]											
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	0.44	Vert(LL)	-0.32 11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.52 11-13	>639	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04 9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-12: 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-11, 6-10, 7-10, 8-9

REACTIONS.

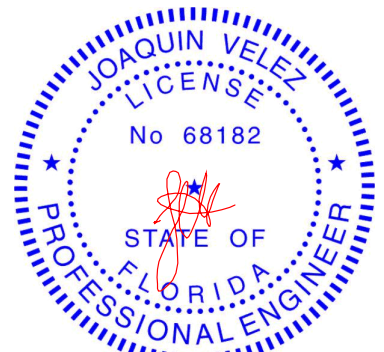
(size) 2=0-3-8, 9=0-3-8
Max Horz 2=295(LC 12)
Max Uplift 2=253(LC 12), 9=214(LC 12)
Max Grav 2=1222(LC 2), 9=1161(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1957/367, 3-5=-1758/332, 5-6=-887/206, 6-7=-535/176, 7-8=-649/164, 8-9=-1038/244
BOT CHORD 2-13=-532/1702, 11-13=-344/1178, 10-11=-166/744
WEBS 3-13=-330/203, 5-13=-95/678, 5-11=-676/272, 6-11=-160/813, 6-10=-681/179, 8-10=-172/837

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2E) 19-0-0 to 22-5-0, Exterior(2R) 22-5-0 to 26-7-15, Interior(1) 26-7-15 to 27-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 9=214.



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January 19,2021

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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

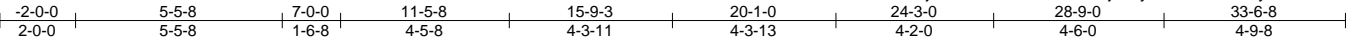
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



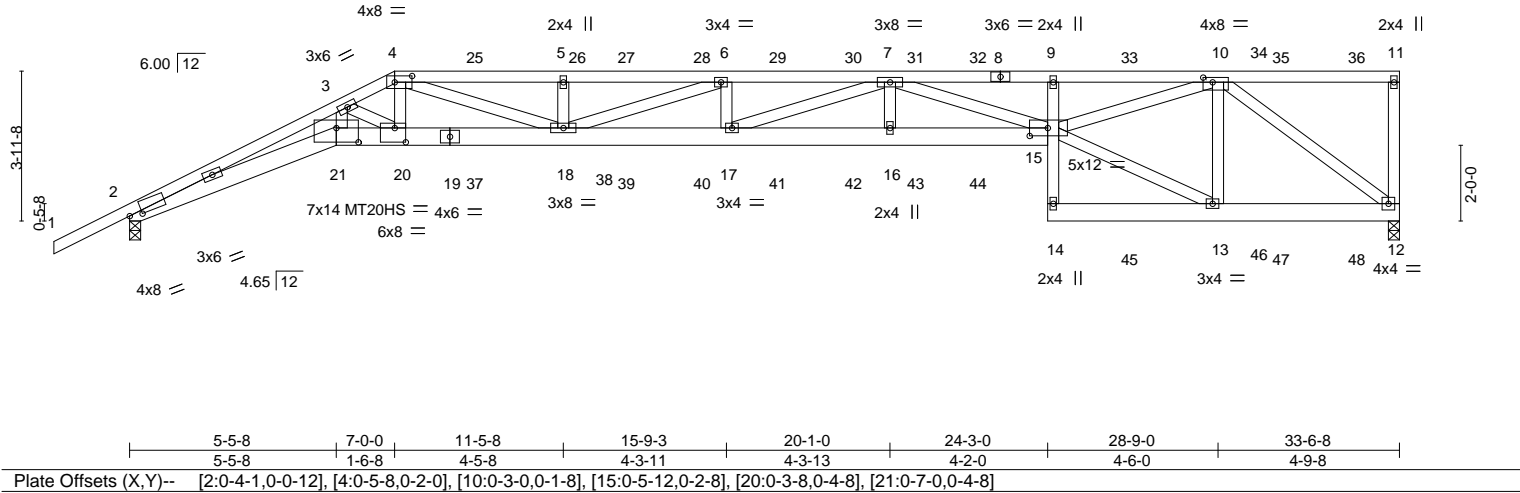
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520428
2613781	T13	HALF HIP GIRDER	1	3	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:28 2021 Page 1
ID:2eRY39KFhR2benj7cX?4RUzckGi-bl1b?13jsvVyBJfulNbc0RoTyUtGNB5GqarZy7zktL



Scale = 1:60.9



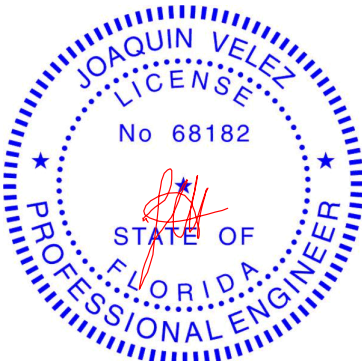
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	-0.60 17-18	>672	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-1.12 17-18	>359	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.56 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 614 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD	2x6 SP M 26 *Except* 9-14: 2x4 SP No.3, 12-14: 2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* 7-17,7-15,10-15: 2x4 SP No.2		

REACTIONS.	(size) 12=0-3-8, 2=0-3-8 Max Horz 2=146(LC 27) Max Uplift 12=-772(LC 5), 2=-779(LC 8) Max Grav 12=2690(LC 1), 2=2579(LC 1)
-------------------	---

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-14270/4499, 3-4=-10788/3399, 4-5=-12528/3868, 5-6=-12528/3868, 6-7=-14088/4325, 7-9=-11073/3306, 9-10=-10852/3245
BOT CHORD	2-21=-4279/13372, 20-21=-3874/12107, 18-20=-3191/10082, 17-18=-4325/14088, 16-17=-4180/13747, 15-16=-4180/13747, 9-15=-364/185, 13-14=-109/379, 12-13=-902/3110
WEBS	3-21=-1021/3222, 3-20=-2675/898, 4-20=-1079/3331, 4-18=-832/2678, 5-18=-434/158, 6-18=-1721/514, 7-17=-241/364, 7-16=-86/325, 7-15=-2848/970, 13-15=-873/3005, 10-15=-2493/8238, 10-13=-1059/460, 10-12=-3885/1125

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 20-4 2x4 - 2 rows staggered at 0-5-0 oc, member 5-18 2x4 - 1 row at 0-8-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify connection on bearing surface.



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Date:

January 19,2021

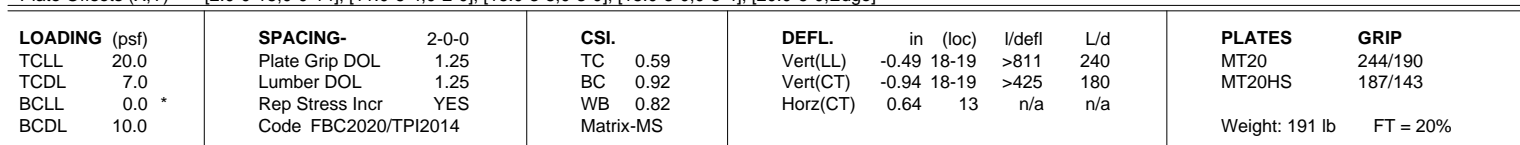
Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520428
2613781	T13	HALF HIP GIRDER	1	3	Job Reference (optional)	

- NOTES-**
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=772, 2=779.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 56 lb up at 7-0-0, 109 lb down and 56 lb up at 9-0-12, 109 lb down and 56 lb up at 11-0-12, 109 lb down and 56 lb up at 13-0-12, 109 lb down and 56 lb up at 15-0-12, 109 lb down and 56 lb up at 17-0-12, 109 lb down and 56 lb up at 19-0-12, 109 lb down and 52 lb up at 20-8-8, 109 lb down and 56 lb up at 22-4-4, 107 lb down and 87 lb up at 24-4-4, 107 lb down and 87 lb up at 26-4-4, 107 lb down and 87 lb up at 28-4-4, and 107 lb down and 87 lb up at 30-4-4, and 107 lb down and 87 lb up at 32-4-4 on top chord, and 412 lb down and 199 lb up at 7-0-0, 62 lb down and 46 lb up at 9-0-12, 62 lb down and 46 lb up at 11-0-12, 62 lb down and 46 lb up at 13-0-12, 62 lb down and 46 lb up at 15-0-12, 62 lb down and 46 lb up at 17-0-12, 62 lb down and 46 lb up at 19-0-12, 62 lb down and 46 lb up at 20-8-8, 62 lb down and 46 lb up at 22-4-4, 85 lb down at 24-4-12, 85 lb down at 26-4-4, 85 lb down at 28-4-4, and 85 lb down at 30-4-4, and 85 lb down at 32-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-4=-54, 4-11=-54, 21-22=-20, 15-21=-20, 12-14=-20
 - Concentrated Loads (lb)
 - Vert: 4=-105(B) 9=-107(B) 20=-412(B) 15=-60(B) 25=-105(B) 26=-105(B) 27=-105(B) 28=-105(B) 29=-105(B) 30=-105(B) 31=-105(B) 32=-105(B) 33=-107(B) 34=-107(B) 35=-107(B) 36=-107(B) 37=-62(B) 38=-62(B) 39=-62(B) 40=-62(B) 41=-62(B) 42=-62(B) 43=-62(B) 44=-62(B) 45=-60(B) 46=-60(B) 47=-60(B) 48=-60(B)



Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:30 2021 Page 1
 ID:2eRY39KFhR2benj7cX?4RUzckGi-X89LQj5zOXlgRdpHtoE45stsUIX2r2TZHuKf00ztktJ
 -2-0-0 | 3-6-0 | 5-5-8 | 9-0-0 | 14-2-10 | 19-6-8 | 24-10-6 | 29-9-8 | 32-5-0 | 33-6-8
 2-0-0 | 3-6-0 | 1-11-8 | 3-6-8 | 5-2-10 | 5-3-14 | 5-3-15 | 4-11-2 | 2-7-8 | 1-1-8
 Scale = 1:60.9



REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=170(LC 12)
 Max Uplift 2=-314(LC 12), 13=-285(LC 9)
 Max Grav 2=1347(LC 1), 13=1232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-5225/1345, 3-4=-6704/1686, 4-5=-3354/794, 5-6=-3127/764, 6-7=-3834/909,
7-9=-3335/799, 9-10=-1487/368, 10-11=-1444/361, 11-12=-344/83, 12-13=-1173/272

BOT CHORD 2-20=-1343/4757, 19-20=-1517/5714, 18-19=-921/3785, 17-18=-929/3760,
16-17=-741/2952

WEBS 3-20=-345/1593, 4-20=-500/1975, 4-19=-2821/818, 5-19=-249/1248, 6-19=-853/286,
7-17=-550/228, 9-17=-129/624, 9-16=-1658/427, 14-16=-56/282, 11-16=-442/1776,
11-14=-1163/292, 12-14=-231/983

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 32-5-0, Exterior(2E) 32-5-0 to 33-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314 13=285.



January 19, 2021

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520430
2613781	T15	HIP	1	1		

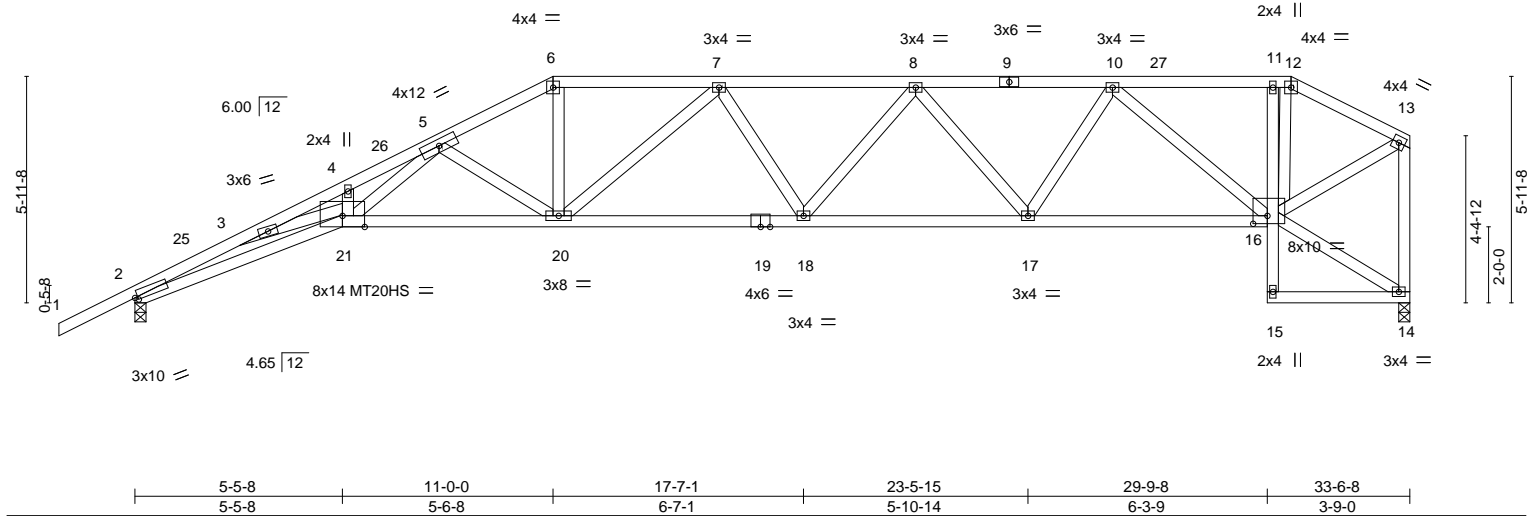
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:33 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-xjrU2I7rhS7F4XsYwnnjVVMXVdX2Q5?_sZJdLzktG

-2-0-0	3-6-0	5-5-8	8-0-0	11-0-0	15-4-6	20-6-8	25-8-10	29-9-8	30-5-0	33-6-8
2-0-0	3-6-0	1-11-8	2-6-8	3-0-0	4-4-6	5-2-1	5-2-2	4-0-14	0-7-8	3-1-8

Scale = 1:60.6



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 0.61	Vert(LL)	-0.44 20-21	>907	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.83 20-21	>483	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.53 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 197 lb	FT = 20%

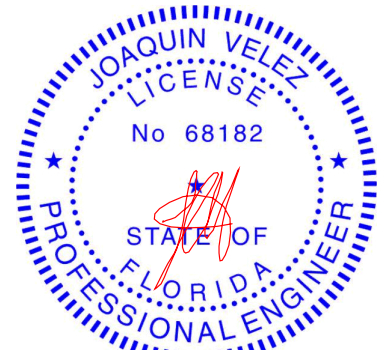
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-6: 2x4 SP M 31
BOT CHORD 2x4 SP M 31 *Except*
11-15: 2x4 SP No.3, 14-15,16-19: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-21: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=184(LC 12)
Max Uplift 2=-311(LC 12), 14=-237(LC 8)
Max Grav 2=1347(LC 1), 14=1232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5263/1367, 3-4=-6673/1680, 4-5=-6697/1752, 5-6=-2813/667, 6-7=-2516/622,
7-8=-2782/634, 8-10=-2336/536, 10-11=-1065/244, 11-12=-1048/242, 12-13=-1150/248,
13-14=-1196/252
BOT CHORD 2-21=-1379/4795, 20-21=-896/3442, 18-20=-638/2797, 17-18=-623/2674,
16-17=-468/2000
WEBS 5-21=-940/3350, 5-20=-1173/378, 6-20=-219/1080, 7-20=-485/188, 8-17=-546/195,
10-17=-132/653, 10-16=-1248/318, 13-16=-248/1168, 12-16=-123/458, 3-21=-316/1522

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-6, Interior(1) 15-4-6 to 30-5-0, Exterior(2E) 30-5-0 to 33-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=311, 14=237.



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Date:

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520431
2613781	T16	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

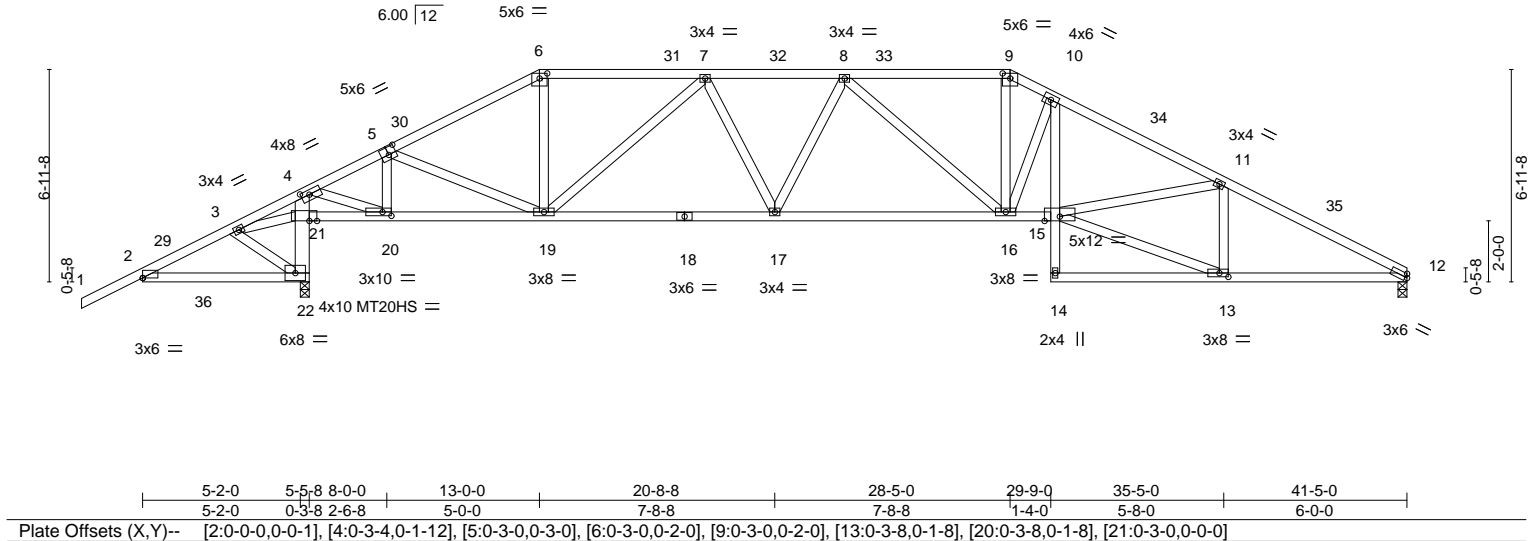
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:36 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-MIWcgm9k_NVp9YGRD2KUK77uFidvFk4Rgqn_EgztktD

Job Reference (optional)

-2-0-0	3-0-0	5-5-8	8-0-0	13-0-0	18-5-2	22-11-14	28-5-0	29-9-0	35-5-0	41-5-0
2-0-0	3-0-0	2-5-8	2-6-8	5-0-0	5-5-2	4-6-13	5-5-2	1-4-0	5-8-0	6-0-0

Scale = 1:75.5



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 0.58	Vert(LL) -0.20 15-16 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.41 16-17 >999 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.16 12 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			
				Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 4-22: 2x6 SP No.2, 10-14: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 4-20: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 3-11-8 oc bracing.

REACTIONS.

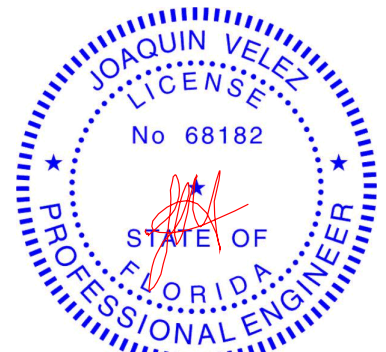
(size) 12=0-3-8, 22=0-3-8
 Max Horz 22=123(LC 16)
 Max Uplift 12=-283(LC 13), 22=-404(LC 12)
 Max Grav 12=1292(LC 1), 22=1880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-349/548, 3-4=-1086/1709, 4-5=-1171/252, 5-6=-1747/343, 6-7=-1522/325,
 7-8=-2348/441, 8-9=-2300/512, 9-10=-2560/561, 10-11=-3006/618, 11-12=-2405/523
 BOT CHORD 2-22=-452/381, 21-22=-1985/623, 4-21=-2172/787, 20-21=-1952/1363, 19-20=-224/1026,
 17-19=-385/2192, 16-17=-389/2428, 15-16=-391/2616, 10-15=-171/823, 12-13=-407/2087
 WEBS 5-20=-746/339, 5-19=-303/667, 6-19=-56/559, 7-19=-911/244, 7-17=-95/360,
 8-16=-314/153, 9-16=-181/965, 10-16=-903/263, 13-15=-431/2158, 11-15=-127/558,
 11-13=-675/189, 4-20=-1148/2943, 3-22=-233/270, 3-21=-1285/896

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 28-5-0, Exterior(2R) 28-5-0 to 32-7-15, Interior(1) 32-7-15 to 41-5-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=283, 22=404.



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

January 19,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520432
2613781	T17	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

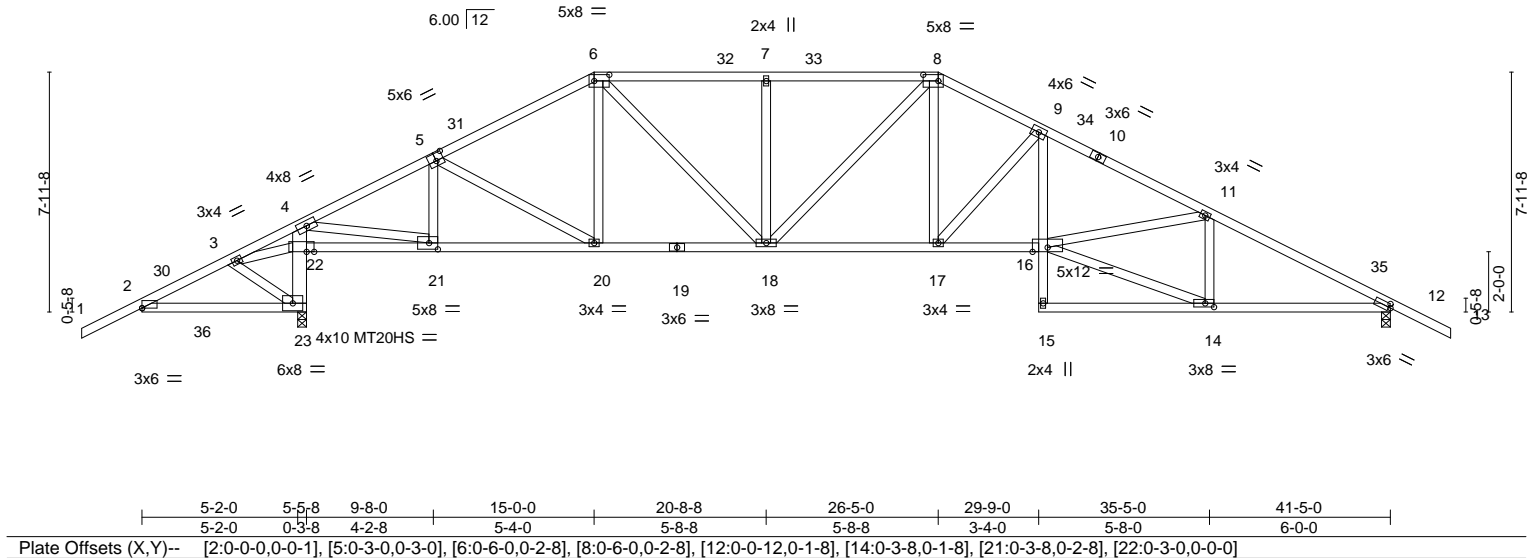
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:40 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-E3m7W8CE1b?Fd9aCSuPQVzIz?K0ABZ21bSIBNRzkt9

Job Reference (optional)

-2-0-0	3-0-0	5-5-8	9-8-0	15-0-0	20-8-8	26-5-0	29-9-0	35-5-0	41-5-0	43-5-0
2-0-0	3-0-0	2-5-8	4-2-8	5-4-0	5-8-8	5-8-8	3-4-0	5-8-0	6-0-0	2-0-0

Scale = 1:76.4



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 0.59	Vert(LL)	-0.19 16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.35 16-17	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.11 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 4-23: 2x6 SP No.2, 9-15: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 4-21: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-1-4 oc bracing.

REACTIONS.

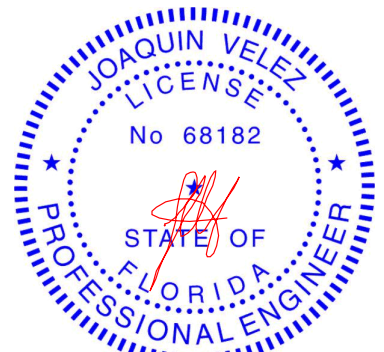
(size) 12=0-3-8, 23=0-3-8
 Max Horz 23=123(LC 12)
 Max Uplift 12=-322(LC 13), 23=-400(LC 12)
 Max Grav 12=1403(LC 1), 23=1877(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-350/550, 3-4=-1127/1708, 4-5=-1490/257, 5-6=-1731/321, 6-7=-1953/384,
 7-8=-1953/384, 8-9=-2219/462, 9-11=-2997/582, 11-12=-2367/499
 BOT CHORD 2-23=-453/382, 22-23=-1985/634, 4-22=-2165/815, 21-22=-1848/1397, 20-21=-193/1277,
 18-20=-167/1490, 17-18=-158/1961, 16-17=-332/2623, 9-16=-127/818, 12-14=-355/2049
 WEBS 4-21=-1280/3154, 6-18=-186/697, 7-18=-354/166, 8-17=-154/767, 9-17=-1001/261,
 14-16=-376/2134, 11-16=-82/581, 11-14=-680/176, 5-21=-462/260, 3-23=-254/275,
 3-22=-1287/948

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 26-5-0, Exterior(2R) 26-5-0 to 30-7-15, Interior(1) 30-7-15 to 43-5-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=322, 23=400.



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

January 19,2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520433
2613781	T18	HIP	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

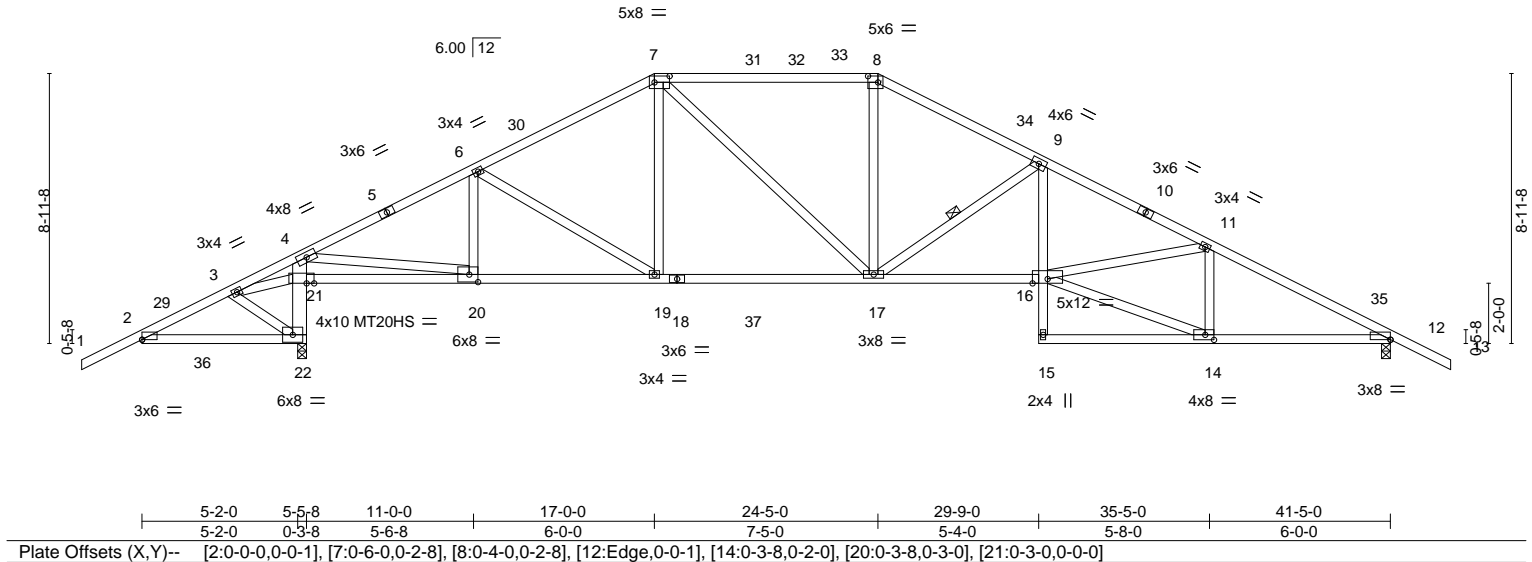
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:42 2021 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-ASutxqEVZDFztTjaaJRuaONpX7d4fSMK2IEIRJztk7

Job Reference (optional)

-2-0-0	3-0-0	5-5-8	11-0-0	17-0-0	24-5-0	29-9-0	35-5-0	41-5-0	43-5-0
2-0-0	3-0-0	2-5-8	5-6-8	6-0-0	7-5-0	5-4-0	5-8-0	6-0-0	2-0-0

Scale = 1:76.4



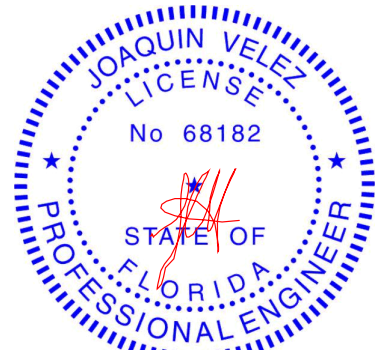
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.23 17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.41 16-17	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.09 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 4-2-7 oc bracing.
4-22: 2x6 SP No.2, 9-15: 2x4 SP No.3	WEBS 1 Row at midpt 9-17
WEBS 2x4 SP No.3 *Except*	
4-20: 2x4 SP No.2	

REACTIONS.	(size) 12=0-3-8, 22=0-3-8
	Max Horz 22=137(LC 12)
	Max Uplift 12=-319(LC 13), 22=-397(LC 12)
	Max Grav 12=1492(LC 2), 22=2002(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-350/551, 3-4=-1128/1708, 4-6=-1863/295, 6-7=-1873/315, 7-8=-1891/387, 8-9=-2154/394, 9-11=-3259/573, 11-12=-2564/491
BOT CHORD	2-22=-454/383, 21-22=-2068/636, 4-21=-2192/823, 20-21=-1743/1361, 19-20=-227/1603, 17-19=-143/1629, 16-17=-332/2886, 9-16=-115/947, 12-14=-348/2237
WEBS	4-20=-1310/3282, 6-20=-319/218, 7-19=-11/332, 7-17=-152/428, 8-17=-54/660, 9-17=-1228/314, 14-16=-365/2332, 11-16=-44/642, 11-14=-681/171, 3-22=-257/281, 3-21=-1288/951

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-5-0, Exterior(2R) 24-5-0 to 28-7-15, Interior(1) 28-7-15 to 43-5-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=319, 22=397.



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

January 19,2021

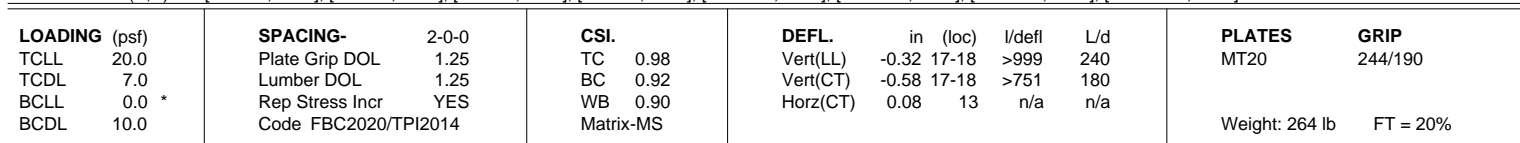
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6904 Parke East Blvd.
Tampa, FL 33610

Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:44 2021 Page 1
 ID:2eRY39KFhR2benj7cX?4RUzckGi-7q?eMWGI5qWh6mtzhkUMfpS9xJl7LjdV3PWCztkt5
 -2-0-0 | 3-0-0 | 5-3-12 | 10-2-0 | 14-5-4 | 19-0-0 | 22-5-0 | 26-1-0 | 29-9-0 | 35-5-0 | 41-5-0 | 43-5-0
 2-0-0 | 3-0-0 | 2-3-12 | 4-10-4 | 4-3-4 | 4-6-12 | 3-5-0 | 3-8-0 | 3-8-0 | 5-8-0 | 6-0-0 | 2-0-0
 Scale = 1:76.4



REACTIONS. (size) 13=0-3-8, 23=0-3-8
Max Horz 23=152(LC 12)
Max Uplift 13=-315(LC 13), 23=-393(LC 12)
Max Grav 13=1495(LC 2), 23=1988(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-351/552, 3-4=-1112/1687, 4-5=-1300/1842, 5-6=-1835/326, 6-7=-1721/313,
7-8=-1503/306, 8-9=-1841/351, 9-10=-3188/621, 10-12=-3186/546, 12-13=-2573/485

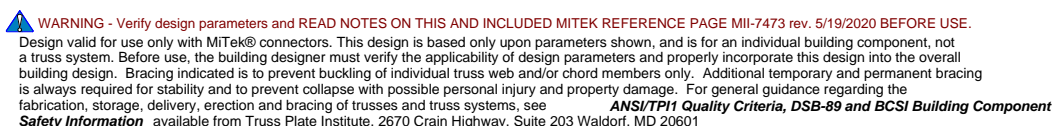
BOT CHORD 2-23=-456/384, 22-23=-2066/641, 21-22=-235/1519, 19-21=-207/1630, 18-19=-93/1627,
17-18=-153/2073, 10-17=-255/150, 13-15=-342/2245

WEBS 3-23=-271/302, 3-22=-1283/944, 5-22=-3545/1426, 5-21=-104/317, 6-19=-251/147,
7-19=-93/585, 8-19=-383/118, 8-18=-185/954, 9-18=-846/267, 9-17=-293/1357,
15-17=-356/2356, 12-17=-30/568, 12-15=-644/162

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2E) 19-0-0 to 22-5-0, Exterior(2R) 22-5-0 to 26-7-15, Interior(1) 26-7-15 to 43-5-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=315, 23=393.



January 19, 2021



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520435
2613781	T20	PIGGYBACK BASE	4	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

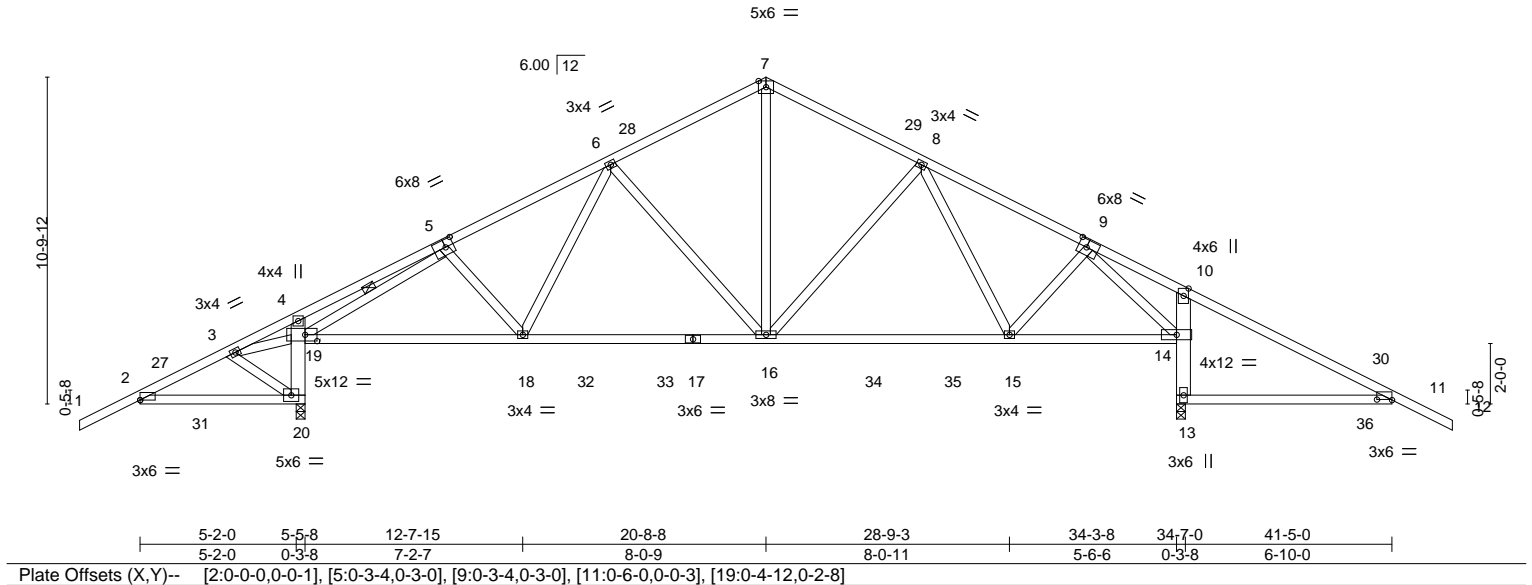
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ID:2eRY39KFhR2benj7cX?4RUzckGi-b1Z0ZrGNs8eYkwS9FR?bC1?LeLiQsolmkjTy2eztk4

Job Reference (optional)

-2-0-0	3-0-0	5-3-12	10-0-11	15-6-13	20-8-8	25-10-3	31-4-9	34-3-8	41-5-0	43-5-0
2-0-0	3-0-0	2-3-12	4-8-15	5-6-3	5-1-11	5-1-11	5-6-6	2-10-15	7-1-8	2-0-0

Scale = 1:76.2



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 0.92	Vert(LL)	-0.15 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.25 16-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	-0.25 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 237 lb	FT = 20%

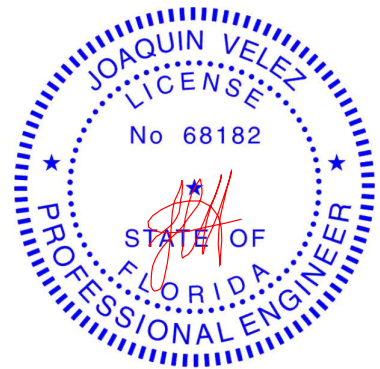
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-0-2 oc bracing.
4-20: 2x6 SP No.2, 10-13: 2x6 SP M 26	WEBS 1 Row at midpt 5-19
WEBS 2x4 SP No.3	

REACTIONS. (size) 13=0-3-8, 20=0-3-8
Max Horz 20=164(LC 12)
Max Uplift 13=385(LC 13), 20=355(LC 12)
Max Grav 13=1864(LC 2), 20=1663(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-351/552, 3-4=-1114/1692, 4-5=-1335/1919, 5-6=-1307/263, 6-7=-978/223,
7-8=-978/239, 8-9=-883/164, 9-10=-1075/1734, 10-11=-419/787
BOT CHORD 2-20=-456/383, 19-20=-1741/558, 18-19=-204/1122, 16-18=-143/1137, 15-16=-38/917,
14-15=0/458, 13-14=-1740/484, 11-13=-610/455
WEBS 3-20=-271/302, 3-19=-1287/946, 5-19=-3040/1316, 6-16=-365/191, 7-16=-119/630,
8-15=-374/248, 9-15=-218/684, 9-14=-2536/944

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 20-8-8, Exterior(2R) 20-8-8 to 24-11-7, Interior(1) 24-11-7 to 43-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=385, 20=355.



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

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JT BLDRS - LOT 29 CCP	T22520436
2613781	T21	Roof Special	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

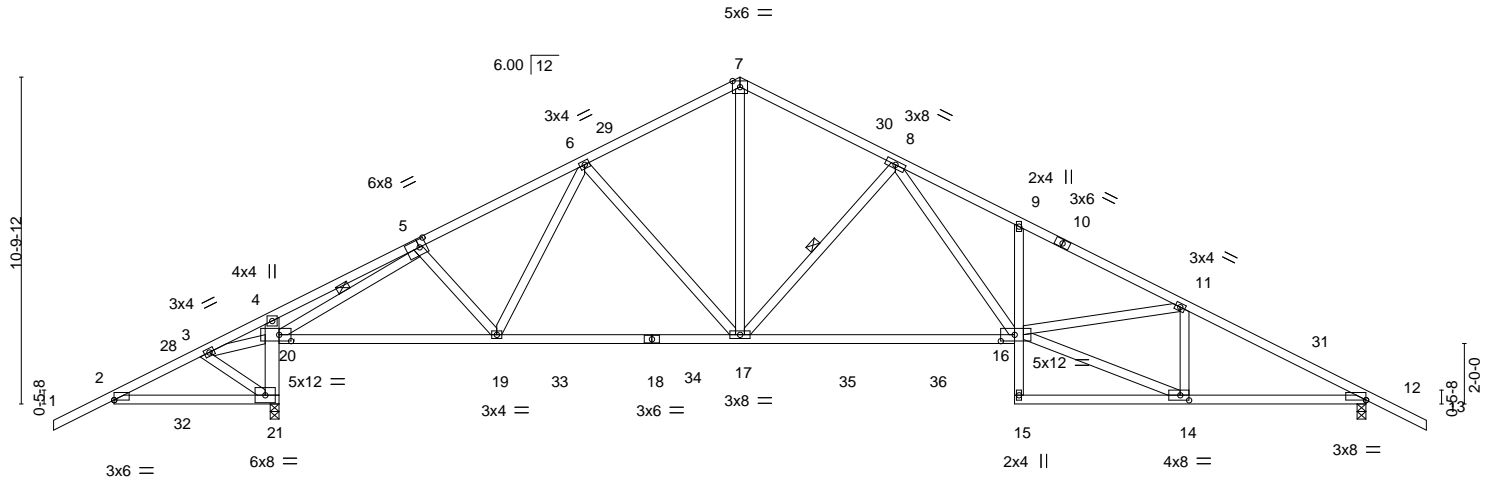
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 16:05:47 2021 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-XPhm_XldOluFzEcYns13HS4hd8MwKiA3C1y37Xztk12

Job Reference (optional)

-2-0-0	3-0-0	5-5-8	10-0-11	15-6-13	20-8-8	25-10-3	29-9-8	35-5-0	41-5-0	43-5-0
2-0-0	3-0-0	2-5-8	4-7-3	5-6-2	5-1-11	5-1-11	3-11-5	5-7-8	6-0-0	2-0-0

Scale = 1:76.2



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LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 4-21: 2x6 SP No.2, 9-15: 2x4 SP No.3, 16-18: 2x4 SP M 31
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-6-11 oc bracing.
 WEBS 1 Row at midpt 5-20, 8-17

REACTIONS.

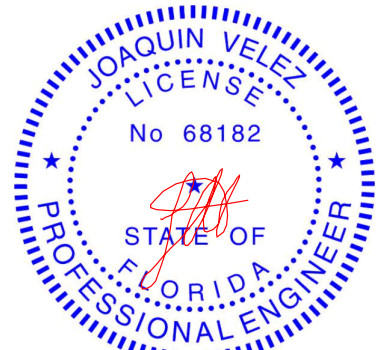
(size) 12=0-3-8, 21=0-3-8
 Max Horz 21=164(LC 12)
 Max Uplift 12=-312(LC 13), 21=-390(LC 12)
 Max Grav 12=1512(LC 2), 21=2020(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-322/552, 3-4=-1036/1688, 4-5=-1234/1890, 5-6=-1916/329, 6-7=-1717/323,
 7-8=-1714/327, 8-9=-3260/607, 9-11=-3257/535, 11-12=-2608/477
 BOT CHORD 2-21=-456/362, 20-21=-2097/619, 19-20=-258/1612, 17-19=-204/1710, 16-17=-161/2079,
 12-14=-336/2276
 WEBS 3-21=-261/301, 3-20=-1283/891, 5-20=-3620/1389, 5-19=-83/317, 6-17=-312/187,
 7-17=-189/1279, 8-17=-908/298, 8-16=-283/1415, 14-16=-347/2403, 11-16=-34/612,
 11-14=-651/159

NOTES- (7)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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(2E) -2-0-0 to 2-1-11, Interior(1) 2-1-11 to 20-8-8, Exterior(2R) 20-8-8 to 24-10-3, Interior(1) 24-10-3 to 43-5-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=312, 21=390.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Joaquin Velez PE No.68182
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 6904 Parke East Blvd. Tampa FL 33610
 Date:

January 19,2021

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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

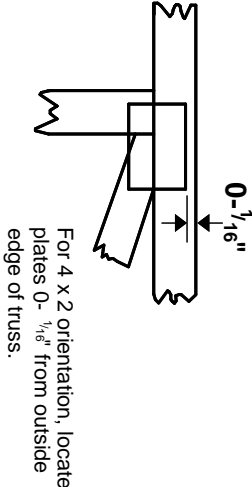
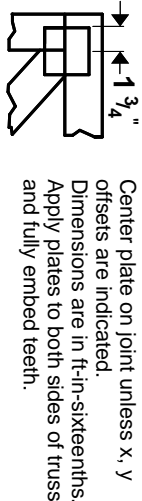
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

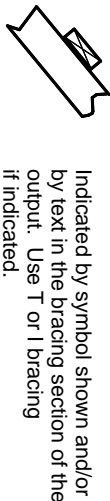
This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

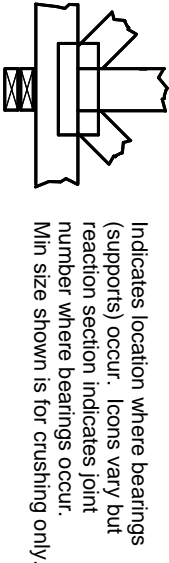
4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

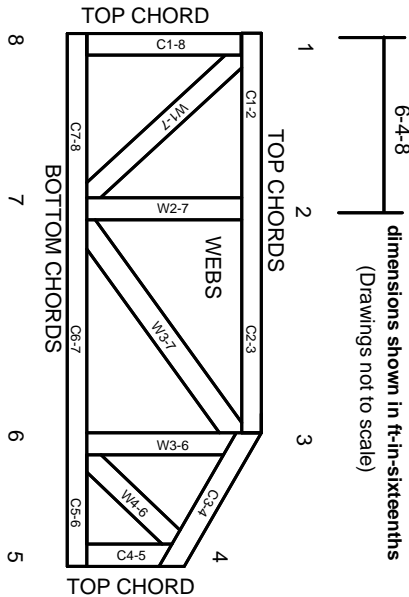


BEARING



Industry Standards:
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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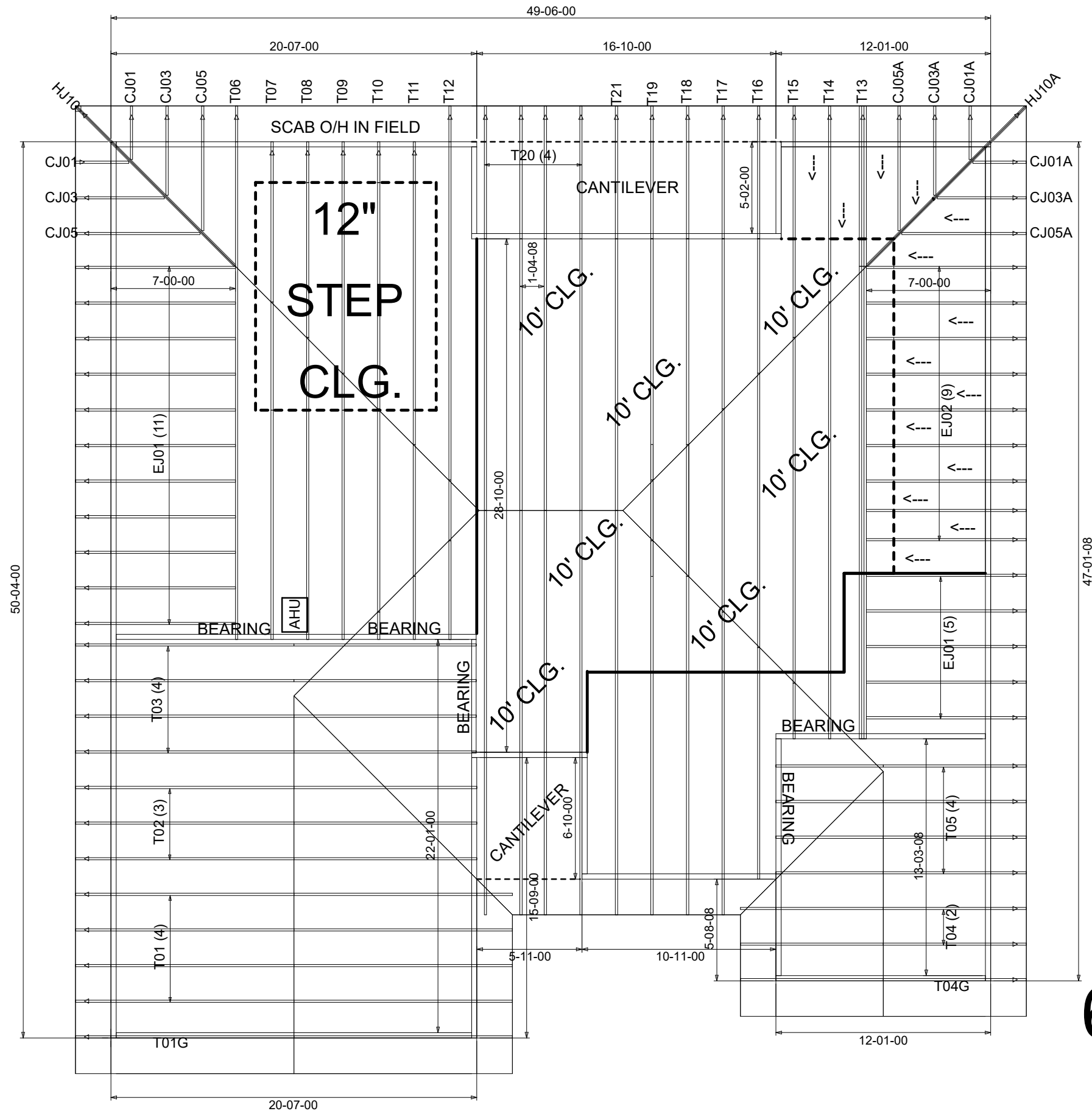


Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



6/12 PITCH
24" O/H

BEARING HEIGHT SCHEDULE

8' 1-1/8"

NOTES:

- 1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.



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BUILDER: JT BUILDERS, LLC

LEGAL ADDRESS:
LOT 29 CANNON CRK PL

MODEL: Revision:
Rev. By:

DATE: 1-19-21 DRAWN BY: KLH Original Reference #: 2613781

1st Level Job #: 2nd Level Job #: Roof Job #: 2613781

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4