



RE: 2714379 - PFS SOLUTIONS - LOT 5 AL

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

Site Information:

Customer Info: PFS Solutions Project Name: Spec Hse Model: 1775

Lot/Block: 5 Subdivision: Amelia Landing

Address: N/A, N/A City: Columbia Cty

State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: 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 55 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	T23468857	EJ01	4/7/21	23	T23468879	T08A	4/7/21
2	T23468858	EJ02	4/7/21	24	T23468880	<u>T</u> 08G	4/7/21
3	T23468859	EJ03	4/7/21	25	T23468881	T09	4/7/21
4	T23468860	EJ03G	4/7/21	26	T23468882	T09G	4/7/21
5	T23468861	PB01	4/7/21	27	T23468883	T10	4/7/21
<u>ნ</u>	T23468862 T23468863	PB01G PB02	4/7/21 4/7/21	28 29	T23468884 T23468885	T10G T11	4/7/21
8	T23468864	PB03	4/7/21 4/7/21	30	T23468886	T11G	4/7/21 4/7/21
9	T23468865	PB03G	4/7/21	31	T23468887	T12	4/7/21
10	T23468866	PB04	4/7/21	32	T23468888	T13	4/7/21
11	T23468867	PB04G	4/7/21	33	T23468889	T14	4/7/21
12	T23468868	T01	4/7/21	34	T23468890	T15	4/7/21
13	T23468869	T01G	4/7/21	35	T23468891	T16	4/7/21
14	T23468870	T02	4/7/21	36	T23468892	<u>T</u> 17	4/7/21
15	T23468871	<u>T</u> 03	4/7/21	37	T23468893	<u>T</u> 18	4/7/21
<u> 16</u>	T23468872	T04	4/7/21	38	T23468894	T19	4/7/21
17	T23468873	T04A	4/7/21	39	T23468895	T20	4/7/21
18	T23468874	T05	4/7/21	40	T23468896	T20G T21	4/7/21
19 20	T23468875 T23468876	T06 T07	4/7/21 4/7/21	41 42	T23468897 T23468898	T22	4/7/21
21	T23468877	T07G	4/7/21 4/7/21	42	T23468899	T23	4/7/21 4/7/21
22	T23468878	T08	4/7/21	44	T23468900	T25	4/7/21
	120 100010		7/1/21		120 100000	. 20	7/1/21

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.





RE: 2714379 - PFS SOLUTIONS - LOT 5 AL

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

# **Site Information:**

Customer Info: PFS Solutions Project Name: Spec Hse Model: 1775 Lot/Block: 5 Subdivision: Amelia Landing Lot/Block: 5 Address: N/A, N/A

City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date 4/7/21 4/7/21 4/7/21 4/7/21 4/7/21
45	T23468901	T26	
46	T23468902	TG01	
47	T23468903	V01	
48	T23468904	V02	
49	T23468905	V03	
50	T23468906	V04	4/7/21
51	T23468907	V05	4/7/21
52	T23468908	V06	4/7/21
53	T23468909	V07	4/7/21
54	T23468910	V08	4/7/21
55	T23468911	V09	4/7/21

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL	1
					T23468857	
2714379	EJ01	Jack-Open	12	1		
					Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

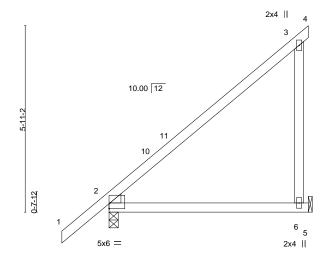
8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:06 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-jomSTuOPJ?Bagry6jDLmyhDq4q?yZVokHXBy9PzTUwV\\$ 

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

-1-6-0 6-4-0 1-6-0 6-4-0

Scale = 1:36.6



6-4-0

DI-1- 041-	()( )()	[O. EI O. O. O.]
Plate Offsets	(X.Y)	[2:Edae.0-2-2]

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.10	6-9	>708	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.13	6-9	>563	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MP						Weight: 33 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=215(LC 12) Max Uplift 2=-13(LC 12), 6=-141(LC 12) Max Grav 2=314(LC 1), 6=247(LC 19)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0 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) 2 except (jt=lb) 6=141.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	EJ02	MONO TRUSS	8	1	T23468858
2714070	2002	mene meee			Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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-1-6-0 6-0-0 1-6-0 6-0-0

Scale = 1:14.4

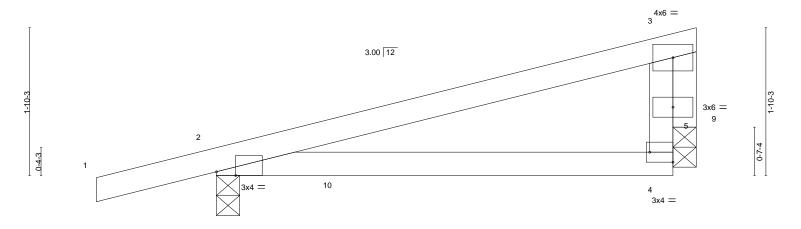


Plate Offsets (X,Y)	[2:0-2-14,Edge], [4:Edge,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) 0.06 4-8 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT) 0.05 4-8 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MR		Weight: 23 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

end verticals.

LUMBER-

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

2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS** 

REACTIONS. (lb/size) 2=307/0-3-8, 9=185/0-3-8

Max Horz 2=65(LC 8)

Max Uplift 2=-164(LC 8), 9=-95(LC 8)

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

TOP CHORD 2-3=-216/286

**BOT CHORD** 2-10=-322/194, 4-10=-322/194

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-6-12 zone; porch left and right exposed; 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 95 lb uplift at joint 9.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

Rigid ceiling directly applied or 9-8-11 oc bracing.

6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
					T23468859
2714379	EJ03	Monopitch	6	1	Job Reference (optional)
Duildes FirstCourse Labe Ci	FI 200FF	D 0 400 - N 40 000	) D=i=4: 0.4	20 - 11 (	200 Neterence (optional)

Builders FirstSource, Lake City, FL 32055 8.420 s Nov 10 2020 Print: 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 7 10:28:10 2021 Page 1

ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-n7?8RKo5V?NkgBvPVfWptvxJAdEIXB7t4iWDxbzT9\_3 5-0-0 -1-6-0 9-3-8 1-6-0 5-0-0 4-3-8

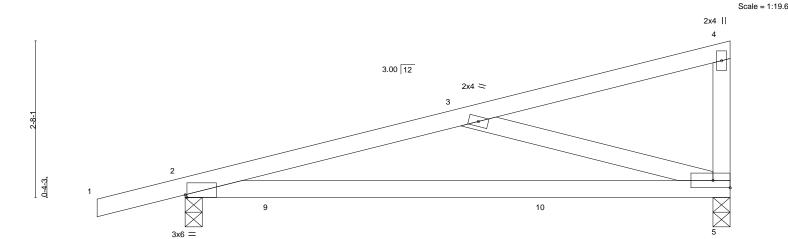


Plate Offsets (X,Y) [2:0-0-6,Edge]											
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES PI2014	CSI. TC BC WB	0.75 0.70 0.24 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.34 -0.30 -0.01	(loc) 5-8 5-8 5	l/defl >326 >371 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 40 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

end verticals.

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) 2=426/0-3-8, 5=332/0-3-8

Max Horz 2=96(LC 8) Max Uplift 2=-217(LC 8), 5=-172(LC 8)

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

TOP CHORD 2-3=-648/692

**BOT CHORD** 2-9=-782/625, 9-10=-782/625, 5-10=-782/625

**WEBS** 3-5=-605/727

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-1-12 zone; porch left and right exposed;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 172 lb uplift at joint 5.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

Rigid ceiling directly applied or 4-5-10 oc bracing.

6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

3x8 =



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468860 2714379 EJ03G Monopitch Supported Gable Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:09 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-7NSb5wQHcwZ8XIggPLuTaKrRh28imtwBzVPclkzTUwS -1-6-0 2-0-0 1-6-0 Scale = 1:7.0 5x6 =3 3.00 12 2 0-10-3 0-4-3 3x4 =

ets (X,Y)	[3:1-4-11,0-2-0]										
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.00	` í	n/r	120	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	1	n/r	120		
0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
10.0	Code FBC2020/T	PI2014	Matri	x-P	, ,					Weight: 9 lb	FT = 20%
	(psf) 20.0 7.0 0.0 *	(psf)         SPACING-           20.0         Plate Grip DOL           7.0         Lumber DOL           0.0 *         Rep Stress Incr	(psf)         SPACING-         2-0-0           20.0         Plate Grip DOL         1.25           7.0         Lumber DOL         1.25           0.0 *         Rep Stress Incr         YES	(psf)         SPACING-         2-0-0         CSI.           20.0         Plate Grip DOL         1.25         TC           7.0         Lumber DOL         1.25         BC           0.0 *         Rep Stress Incr         YES         WB	(psf)         SPACING-         2-0-0         CSI.           20.0         Plate Grip DOL         1.25         TC         0.19           7.0         Lumber DOL         1.25         BC         0.04           0.0 *         Rep Stress Incr         YES         WB         0.00	(psf)         SPACING-         2-0-0         CSI.         DEFL.           20.0         Plate Grip DOL         1.25         TC 0.19         Vert(LL)           7.0         Lumber DOL         1.25         BC 0.04         Vert(CT)           0.0 *         Rep Stress Incr         YES         WB 0.00         Horz(CT)	(psf)         SPACING-         2-0-0         CSI.         DEFL.         in           20.0         Plate Grip DOL         1.25         TC         0.19         Vert(LL)         0.00           7.0         Lumber DOL         1.25         BC         0.04         Vert(CT)         -0.00           0.0 *         Rep Stress Incr         YES         WB         0.00         Horz(CT)         0.00	(psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)           20.0         Plate Grip DOL         1.25         TC 0.19         Vert(LL)         0.00         1           7.0         Lumber DOL         1.25         BC 0.04         Vert(CT)         -0.00         1           0.0 *         Rep Stress Incr         YES         WB 0.00         Horz(CT)         0.00	(psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl           20.0         Plate Grip DOL         1.25         TC         0.19         Vert(LL)         0.00         1         n/r           7.0         Lumber DOL         1.25         BC         0.04         Vert(CT)         -0.00         1         n/r           0.0         *         Rep Stress Incr         YES         WB         0.00         Horz(CT)         0.00         n/a	(psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d           20.0         Plate Grip DOL         1.25         TC         0.19         Vert(LL)         0.00         1         n/r         120           7.0         Lumber DOL         1.25         BC         0.04         Vert(CT)         -0.00         1         n/r         120           0.0 *         Rep Stress Incr         YES         WB         0.00         Horz(CT)         0.00         n/a         n/a	(psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d         PLATES           20.0         Plate Grip DOL         1.25         TC         0.19         Vert(LL)         0.00         1         n/r         120         MT20           7.0         Lumber DOL         1.25         BC         0.04         Vert(CT)         -0.00         1         n/r         120           0.0 *         Rep Stress Incr         YES         WB         0.00         Horz(CT)         0.00         n/a         n/a

**BRACING-**

LUMBER-

REACTIONS.

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

TOP CHORD **BOT CHORD** 

2x4 SP No.3

Max Horz 2=33(LC 8) Max Uplift 4=-7(LC 12), 2=-96(LC 8)

(size) 4=2-0-0, 2=2-0-0

Max Grav 4=42(LC 3), 2=182(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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 1-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



Structural wood sheathing directly applied or 2-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

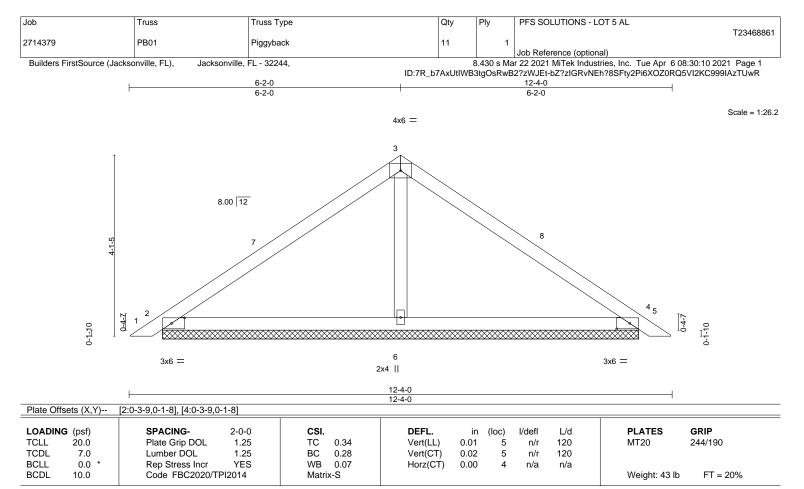
except end verticals.

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





BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 2=10-9-12, 4=10-9-12, 6=10-9-12

Max Uplift 2=-62(LC 12), 4=-73(LC 13), 6=-55(LC 12) Max Grav 2=222(LC 1), 4=222(LC 1), 6=408(LC 1)

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

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

Max Horz 2=-86(LC 10)

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 12-0-11 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) Gable requires continuous bottom chord bearing.
- 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) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Date:

April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468862 GABLE 2714379 PB01G Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:11 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-3mZLWcSX8Ypsmcq3Wmwxflwn0rqpEmlURpujqdzTUwQ 5-7-11 11-3-6 5-7-11 Scale: 1/2"=1' 4x4 = 8.00 12 2x4 || 5 2x4 || 3-9-2 6 7 D-4-7 0-1-10 10 2x4 =2x4 =2x4 || 2x4 || 2x4 || 11-3-6 11-3-6 LOADING (psf) GRIP SPACING-CSI **PLATES** 2-0-0 DEFL. in (loc) I/defI I/d 244/190 **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.07Vert(LL) 0.00 n/r 120 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

0.00

0.00

n/r

n/a

6

120

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 44 lb

FT = 20%

LUMBER-

TCDL

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.2

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

7.0

0.0

10.0

REACTIONS. All bearings 9-9-2. (lb) - Max Horz 2=-79(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-108(LC 12), 8=-108(LC 13)

1.25

YES

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

1) Unbalanced roof live loads have been considered for this design.

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-7-11, Exterior(2R) 5-7-11 to 8-7-11, Interior(1) 8-7-11 to 11-0-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-S

0.06

0.04

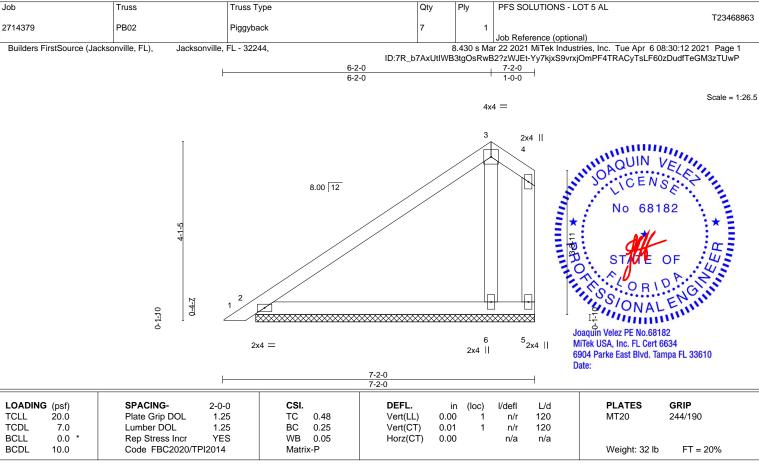
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=108. 8=108.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



Date:

April 7,2021





LUMBER-TOP CHORD

2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 

REACTIONS.

(size) 5=6-4-14, 2=6-4-14, 6=6-4-14

Max Horz 2=123(LC 12)

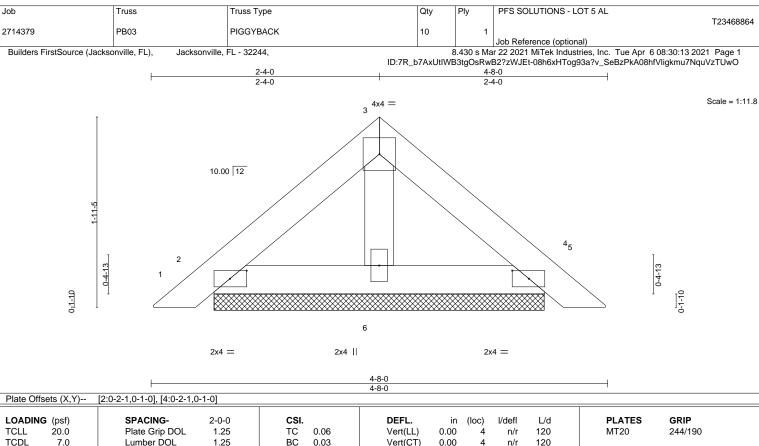
Max Uplift 5=-125(LC 3), 2=-33(LC 12), 6=-61(LC 12)

Max Grav 2=215(LC 1), 6=340(LC 3)

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

### 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-2-0, Exterior(2E) 6-2-0 to 7-0-4 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) Gable requires continuous bottom chord bearing.
- 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) 2, 6 except (|t=|b) 5=125.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DI	EFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Ve	ert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Ve	ert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Ho	orz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-P							Weight: 16 lb	FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-8-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-4-8, 4=3-4-8, 6=3-4-8

Max Horz 2=-38(LC 10)

Max Uplift 2=-30(LC 12), 4=-35(LC 13), 6=-3(LC 12) Max Grav 2=95(LC 1), 4=95(LC 1), 6=104(LC 1)

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

### NOTES-

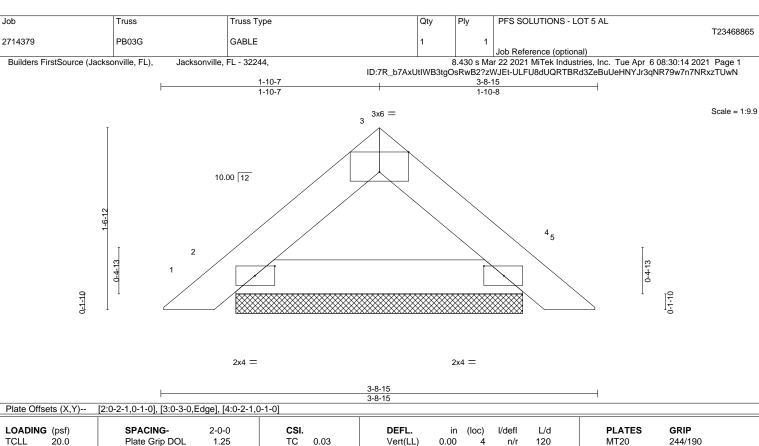
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) na
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Date:

April 7,2021





**TCLL** 20.0 Plate Grip DOL 1.25 TC 0.03 Vert(LL) 0.00 n/r 120 **TCDL** 7.0 Lumber DOL 1.25 вс 0.07 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 4 0.00 n/a n/a BCDL Code FBC2020/TPI2014 Matrix-P 10.0

MT20

Weight: 11 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-8-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

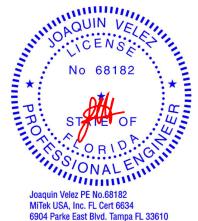
(size) 2=2-5-8, 4=2-5-8

Max Horz 2=-30(LC 10) Max Uplift 2=-26(LC 12), 4=-26(LC 13)

Max Grav 2=113(LC 1), 4=113(LC 1)

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

- 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=20ft; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468866 PIGGYBACK 2714379 PB04 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:14 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-ULFU8dUQRTBRd3ZeBuUeHNYI53qQR79w7n7NRxzTUwN

Structural wood sheathing directly applied or 3-4-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:13.3

2x4 || 8.00 12 0-4-7 0-1-10 0-1-10

3-4-0

2x4 ||

except end verticals.

2x4 =

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-P						Weight: 12 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-**BOT CHORD** 

REACTIONS.

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

WFBS 2x4 SP No.3

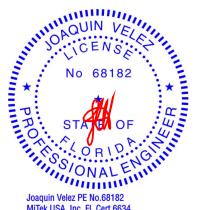
> (size) 4=2-6-14, 2=2-6-14 Max Horz 2=65(LC 12)

Max Uplift 4=-43(LC 12), 2=-16(LC 12)

Max Grav 4=92(LC 19), 2=118(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

April 7,2021



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468867 PIGGYBACK 2714379 PB04G Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:15 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-yXpsMzV2CmJIFD8qlc?tpb5UOSB4AaP3MQtwzOzTUwM

Structural wood sheathing directly applied or 2-9-11 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:11.5 2x4 || 8.00 12 1-10-7 슏 0-4-7 0-1-10

2x4 |

except end verticals.

2-9-11 2-9-11

2x4 =

LOADING	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-P						Weight: 10 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

**BOT CHORD** WFBS 2x4 SP No.3

REACTIONS. (size) 4=2-0-9, 2=2-0-9 Max Horz 2=53(LC 12)

Max Uplift 4=-33(LC 12), 2=-15(LC 12)

Max Grav 4=71(LC 19), 2=100(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



6904 Parke East Blvd. Tampa FL 33610

April 7,2021



Job Truss Type PFS SOLUTIONS - LOT 5 AL Truss Ply Qty T23468868 2714379 T01 Attic Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:17 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-uvwdmfWIjOa0UXHDt01Lv0AihGmyeN8MpkM12GzTUwKarner (Marchen March 1998) and the substitution of the property o$ 

5-1-4

Structural wood sheathing directly applied or 4-9-2 oc purlins.

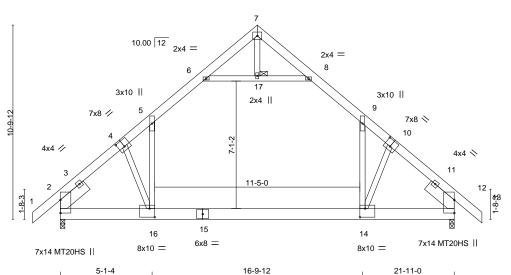
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): 17

7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 1-6-8 3-7-0 13-9-11 14-5-6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 23-5-8 3-7-0 1-6-4 3-7-0

5x6 =

Scale: 3/16"=1'



16-9-12 5-1-4 11-8-8 Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-3-8,0-5-12], [16:0-3-8,0-5-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) -0.27 14-16 >977 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.44 14-16 >600 180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.02 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.18 14-16 785 360	Weight: 195 lb FT = 20%

**BRACING-**

**JOINTS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SP M 26 \*Except\* TOP CHORD

1-4.10-13: 2x6 SP No.2

**BOT CHORD** 2x8 SP 2400F 2.0E

WFRS 2x4 SP No 3

Left 2x8 SP 2400F 2.0E -t 1-11-8, Right 2x8 SP 2400F 2.0E -t 1-11-8 **SLIDER** 

REACTIONS. (size) 2=0-3-0, 12=0-3-0

Max Horz 2=-229(LC 10)

Max Uplift 2=-18(LC 12), 12=-18(LC 13) Max Grav 2=1376(LC 20), 12=1376(LC 21)

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

2-4=-1680/210, 4-5=-1625/2, 5-6=-1022/103, 8-9=-1021/103, 9-10=-1624/1, TOP CHORD

10-12=-1680/211

BOT CHORD 2-16=-6/1205, 14-16=0/1105, 12-14=0/1131

 $6\text{-}17\text{=-}1217/65,\ 8\text{-}17\text{=-}1217/65,\ 9\text{-}14\text{=-}0/1043,\ 10\text{-}14\text{=-}256/176,\ 5\text{-}16\text{=-}0/1043,}$ **WEBS** 

4-16=-255/175

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 14-1-9, Interior(1) 14-1-9 to 23-5-8 zone; end vertical left and right 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) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0 psf) on member(s).9-14, 5-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 10) Attic room checked for L/360 deflection.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job Truss Type PFS SOLUTIONS - LOT 5 AL Truss Ply Qty T23468869 GABLE 2714379 T01G 1 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:20 2021 Page 1  $ID: 7R\_b7AxUtlWB3tgOsRwB2?zWJEt-JUclPhZB0JyaL\_0oY9b2WeolhTsfrqloViahebzTUwHarder Average and the property of the property of$ 

-1-6-8 3-7-0 5-1-4 7-5-10 8-3-11 10-11-8 2-4-6 0-10-1 2-7-13 13-7-5 14-5-6 16-9-12 18-4-0 2-7-13 0-10-1 2-4-6 1-6-4 21-11-0 23-5-8 1-6-8 3-7-0 1-6-4

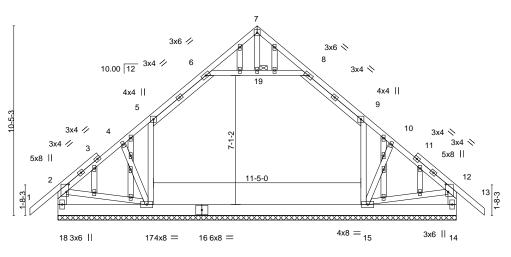
> Scale: 3/16"=1' 4x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1 Brace at Jt(s): 19



16-9-12 21-11-0 5-1-4 11-8-8 [2:0-5-0 0-1-8] [12:0-5-0 0-1-8]

BRACING-

TOP CHORD

BOT CHORD

JOINTS

	0010 (71, 17)	[2:0 0 0,0 1 0], [12:0 0 0,	1	1								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	' '					Weight: 209 lb	FT = 20%

LUMBER-

Plate Offsets (X V)--

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x8 SP 2400F 2.0E

2x4 SP No.3 \*Except\* WEBS 2-18,12-14: 2x6 SP No.2

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 21-11-0.

(lb) - Max Horz 18=-259(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 18, 14 except 15=-129(LC 13), 17=-130(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 18=577(LC 1), 15=791(LC 21), 17=792(LC 20),

14=577(LC 1)

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

2-4=-520/80, 4-5=-454/112, 5-6=-493/126, 8-9=-493/126, 9-10=-453/111, TOP CHORD

10-12=-520/79, 2-18=-569/107, 12-14=-569/107

BOT CHORD 15-17=-31/371

**WEBS** 9-15=-292/141, 5-17=-292/142, 2-17=-34/371, 12-15=-41/378

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 13-10-1, Interior(1) 13-10-1 to 23-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19; Wall dead load (5.0 psf) on member(s).9-15, 5-17
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 14 except (it=lb) 15=129, 17=130.
- 12) Attic room checked for L/360 deflection.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job Truss Type PFS SOLUTIONS - LOT 5 AL Truss Ply Qty T23468870 2714379 T02 Attic Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

5-1-4

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:21 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-nhA7c0Zpnc4Rz8b\_6s6H3rLOgt7waBwykMKFB1zTUwG$ 

5-1-4

Structural wood sheathing directly applied or 4-8-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): 17

Scale: 3/16"=1'

1-6-8 3-7-0 7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 13-9-11 14-5-6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 3-7-0 1-6-4

5x6 =

10.00 12 2x4 = 2x4 = 17 3x10 || 3x10 || 2x4 || 10 2x4 // 5 4x4 💉 12 1-8-3 15 16 14 6x8 = 7x14 MT20HS || 8x10 = 6x8 = 7x14 MT20HS | 16-9-12 21-11-0

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 0.57	Vert(LL) -0.27 14-16 >986 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.43 14-16 >607 180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.02 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.18 14-16 790 360	Weight: 191 lb FT = 20%

11-8-8

BRACING-

TOP CHORD

**BOT CHORD** 

**JOINTS** 

LUMBER-

2x6 SP M 26 \*Except\* TOP CHORD 1-5: 2x6 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WFRS 2x4 SP No 3

Left 2x8 SP 2400F 2.0E -t 1-11-8, Right 2x8 SP 2400F 2.0E -t 1-11-8 **SLIDER** 

Plate Offsets (X,Y)-- [5:0-4-0.0-4-4], [6:0-6-14.0-0-5], [14:0-3-8.0-4-8], [16:0-3-8.0-5-12]

REACTIONS. (size) 13=0-3-0, 2=0-3-0

Max Horz 2=220(LC 11) Max Uplift 2=-18(LC 12)

Max Grav 13=1297(LC 21), 2=1378(LC 20)

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

2-4=-1688/200, 4-6=-1638/2, 6-7=-1027/103, 9-10=-1023/103, 10-11=-1647/0, TOP CHORD

11-13=-1698/193 BOT CHORD

2-16=-22/1197, 14-16=0/1095, 13-14=0/1126

**WEBS** 7-17=-1222/67, 9-17=-1222/67, 10-14=0/1073, 11-14=-286/186, 6-16=0/1060,

4-16=-274/176

# 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 14-1-9, Interior(1) 14-1-9 to 21-11-0 zone; end vertical left and right 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) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-17, 9-17; Wall dead load (5.0psf) on member(s).10-14, 6-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 10) Attic room checked for L/360 deflection.



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April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Plv Qty T23468871 ATTIC GIRDER 2714379 T03 2 Job Reference (optional)

5x6 =

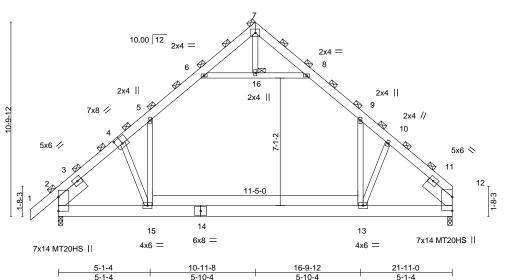
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:22 2021 Page 1

ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-FtkVqMaRYwClbIAAfadWc3tahHVNJgB5z03ojUzTUwF 7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 1-6-8 3-7-0 5-1-4 13-9-11 14-5-6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 3-7-0 1-6-4

Scale: 3/16"=1'



BRACING-

TOP CHORD

**BOT CHORD** 

**JOINTS** 

Plate Offsets (X,Y)--[4:0-4-0,0-4-8] LOADING (psf) SPACING-CSL DFFI 3-0-0 in (loc) **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.49

вс

WB

Matrix-MS

0.38

0.38

1.25

NO

I/defl L/d Vert(LL) -0.20 13-15 >999 240 Vert(CT) -0.33 13-15 >790 180 Horz(CT) 0.01 n/a n/a -0.13 13-15 1047 Attic 360

2-0-0 oc purlins (6-0-0 max.)

1 Brace at Jt(s): 7, 16

(Switched from sheeted: Spacing > 2-0-0).

Rigid ceiling directly applied or 10-0-0 oc bracing.

**PLATES** GRIP MT20 244/190 MT20HS 187/143

Weight: 381 lb FT = 20%

LUMBER-

**TCDL** 

**BCLL** 

BCDL

TOP CHORD 2x6 SP M 26 \*Except\* 1-4: 2x6 SP No.2

**BOT CHORD** 2x8 SP 2400F 2.0E

WFRS 2x4 SP No 3

7.0

0.0

10.0

Left 2x8 SP 2400F 2.0E -t 1-11-8, Right 2x8 SP 2400F 2.0E -t 1-11-8 **SLIDER** 

Code FBC2020/TPI2014

REACTIONS. (size) 12=0-3-0, 2=0-3-0

Max Horz 2=330(LC 5)

Max Uplift 12=-1(LC 9), 2=-105(LC 8) Max Grav 12=1970(LC 35), 2=2149(LC 34)

Lumber DOL

Rep Stress Incr

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

2-4=-2597/152, 4-5=-2514/88, 5-6=-1565/179, 6-7=-124/289, 7-8=-132/288, TOP CHORD 8-9=-1569/188, 9-10=-2503/46, 10-12=-2593/125

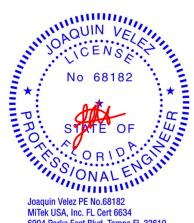
BOT CHORD 2-15=-90/1829, 13-15=0/1680, 12-13=0/1711

**WEBS** 6-16=-1888/145, 8-16=-1888/145, 9-13=0/1600, 10-13=-413/294, 5-15=-17/1584,

4-15=-378/301

### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
  - Bottom chords connected as follows: 2x8 2 rows staggered at 0-9-0 oc.
  - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-16, 8-16; Wall dead load (5.0 psf) on member(s).9-13, 5-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2 = 105
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 123 lb up at 4-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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 chorembers 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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468871 2714379 T03 ATTIC GIRDER 2 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:23 2021 Page 2 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-j3lu1ib3JEK9CSINDH8l8GQlRhrc27RFBgpLFwzTUwE

14) Attic room checked for L/360 deflection.

## LOAD CASE(S) Standard

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

Vert: 1-5=-81, 5-6=-96, 6-7=-81, 7-8=-81, 8-9=-96, 9-12=-81, 15-21=-30, 13-15=-60, 13-17=-30, 6-8=-15

Drag: 9-13=-15, 5-15=-15

Concentrated Loads (lb) Vert: 15=-134(B)



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468872 MONOPITCH GIRDER 2714379 T04 2 Job Reference (optional) Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:23 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-j3lu1ib3JEK9CSINDH8l8GQr8hvN2BxFBgpLFwzTUwE -1-6-8 4-11-8 9-11-0 4-11-8 1-6-8 4-11-8 Scale = 1:56.0  $5x8 = \frac{1}{4}$ Doguin Velez PF JOAQUIN 10.00 12 3x6 // 68182 9-11-6 74x4 = 4x8 // 2 4x4 = 1-8-3 9 Ø 1-0-0 Joaquin Velez PE No.68182 6 5 MiTek USA, Inc. FL Cert 6634 2x4 | 3x4 =4x4 =6904 Parke East Blvd. Tampa FL 33610 4-11-8 4-11-8 4-11-8 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 3-0-0 in (loc) I/defl I/d Plate Grip DOL 244/190 **TCLL** 20.0 1.25 TC 0.13 Vert(LL) 0.01 6 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) -0.01 5-6 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.09 Horz(CT) -0.00 9 n/a n/a Code FBC2020/TPI2014 Weight: 231 lb FT = 20% **BCDL** 10.0 Matrix-MS

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

4-9

(Switched from sheeted: Spacing > 2-0-0).

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2

2x4 SP No.3 \*Except\* WFBS 2-7: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

REACTIONS.

(size) 7=0-3-0, 9=0-3-8 Max Horz 7=432(LC 8)

Max Uplift 7=-45(LC 8), 9=-390(LC 8) Max Grav 7=754(LC 1), 9=578(LC 29)

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

TOP CHORD 2-3=-543/13, 5-8=-276/443, 4-8=-276/443, 2-7=-683/63

**BOT CHORD** 6-7=-436/216, 5-6=-260/350

WEBS 3-6=-102/324, 3-5=-493/369, 2-6=-44/331, 4-9=-579/391

## NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.

  3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,
- GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) 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.
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 9=390.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 127 lb up at 4-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

April 7,2021 Continued on page 2



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468872 2714379 T04 MONOPITCH GIRDER 2 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MTek Industries, Inc. Tue Apr 6 08:30:23 2021 Page 2 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-j3lu1ib3JEK9CSINDH8l8GQr8hvN2BxFBgpLFwzTUwE

### LOAD CASE(S) Standard

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

Vert: 1-2=-81, 2-4=-81, 5-7=-30

Concentrated Loads (lb) Vert: 6=-137(F)



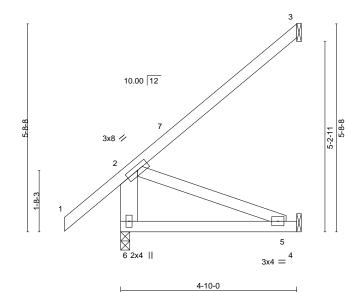
Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468873 2714379 T04A Jack-Open Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:24 2021 Page 1

ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-BGsGE2ch4XS0qcKZn\_f\_hUzxO5Dtne5OQKYvnMzTUwD -1-6-8 4-10-0 1-6-8 4-10-0

Scale = 1:31.6



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	0.41	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.05	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP						Weight: 30 lb	FT = 20%

4-10-0

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x6 SP No.2 \*Except\* WFBS

2-5: 2x4 SP No.3

REACTIONS. (size) 6=0-3-0, 3=Mechanical, 4=Mechanical

Max Horz 6=156(LC 12)

Max Uplift 3=-99(LC 12), 4=-42(LC 12)

Max Grav 6=282(LC 1), 3=117(LC 19), 4=91(LC 3)

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

BOT CHORD 5-6=-311/139 **WEBS** 2-5=-148/330

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 4-9-4 zone; end vertical left exposed; 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.

Jacksonville, FL - 32244,

- 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, 4.



Structural wood sheathing directly applied or 4-10-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468874 2714379 T05 Monopitch 1 Job Reference (optional)

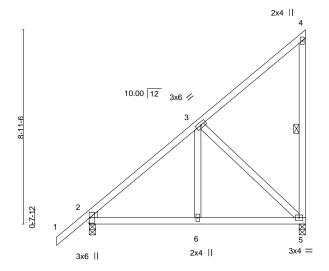
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:25 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-fSPeSOdJrratSlvlLiADDhV9mUYPW2VXf\_ISKpzTUwC

-1-6-0 5-0-0 9-11-8 1-6-0 5-0-0 4-11-8

Scale = 1:53.1



5-0-0	9-11-8	
5-0-0	4-11-8	

LOADING TCLL TCDL BCLL	G (psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.25 0.23 0.28	<b>DEF</b> Vert Vert	(LL)	in 0.02 -0.03 0.01	(loc) 6-9 5-6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code FBC2020/T		1	x-MS	11012	.(01)	0.01	2	11/a	11/a	Weight: 66 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3

WEDGE Left: 2x4 SP No.3 BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-5

REACTIONS.

(size) 2=0-3-8, 5=0-3-8 Max Horz 2=318(LC 12)

Max Uplift 2=-7(LC 12), 5=-221(LC 12) Max Grav 2=450(LC 1), 5=388(LC 19)

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

TOP CHORD 2-3=-372/0

2-6=-186/257, 5-6=-186/257 BOT CHORD

WEBS 3-5=-346/250

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-9-12 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=221.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468875 2714379 T06 Monopitch Girder 1 Job Reference (optional)

5-0-0

5-0-0

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

-1-6-0

1-6-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:26 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-7ez0fkdxc9ik3vTyuPiSmv2LXusQFKuhte10sFzTUwB 9-11-8 4-11-8

Structural wood sheathing directly applied or 4-9-7 oc purlins,

4-5. 3-5

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

Scale = 1:53.1

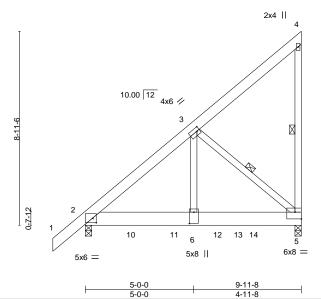


Plate Offsets (X,Y)-- [2:0-2-0,0-2-8], [3:0-1-8,0-2-0], [5:Edge,0-3-12], [6:0-6-4,0-2-8]

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.07	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS	, ,					Weight: 92 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

TOP CHORD 2x6 SP No.2 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=318(LC 8)

Max Uplift 2=-413(LC 8), 5=-741(LC 8) Max Grav 2=1997(LC 1), 5=2153(LC 1)

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

2-3=-2228/464 TOP CHORD

**BOT CHORD** 2-6=-543/1688, 5-6=-543/1688 WEBS 3-6=-652/2561, 3-5=-2235/718

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=413. 5=741.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 656 lb down and 163 lb up at 2-0-12, 677 lb down and 164 lb up at 4-0-12, 677 lb down and 164 lb up at 6-0-12, and 733 lb down and 256 lb up at 6-4-12, and 741 lb down and 249 lb up at 7-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 7) 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, 5-7=-20 Concentrated Loads (lb)

Vert: 10=-656(B) 11=-677(B) 12=-677(B) 13=-664(B) 14=-669(B)



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

April 7,2021

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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468876 2714379 T07 Common 2 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:27 2021 Page 1 14-2-0 -1-6-0 6-4-0 12-8-0 1-6-0 6-4-0 6-4-0 1-6-0 Scale = 1:38.4 4x4 = 3 10.00 12 0-7-12 0-7-12 6 2x4 || 3x6 II 3x6 II 6-4-0 6-4-0 12-8-0

**DEFL** 

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

6-4-0

6-9

6-12

I/defl

>999

>999

I/d

240

180

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

in (loc)

0.06

-0.07

0.01

**BCLL** 0.0 Rep Stress Incr **BCDL** 10.0 Code FBC2020/TPI2014

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3

20.0

7.0

LOADING (psf)

**TCLL** 

TCDL

LUMBER-

WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=144(LC 11)

SPACING-

Plate Grip DOL

Lumber DOL

Max Uplift 2=-118(LC 12), 4=-118(LC 13) Max Grav 2=550(LC 1), 4=550(LC 1)

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

TOP CHORD 2-3=-488/162, 3-4=-488/162 **BOT CHORD** 2-6=-12/316, 4-6=-12/316

WEBS 3-6=-14/281

## 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 14-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

CSI

TC

BC

WB

Matrix-MS

0.40

0.37

0.11

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

2-0-0

1.25

1.25

YES

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 4=118.



Date:

April 7,2021

GRIP

244/190

FT = 20%

**PLATES** 

Weight: 59 lb

MT20

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

Job Ply PFS SOLUTIONS - LOT 5 AL Truss Truss Type Qtv T23468877 2714379 T07G Common Supported Gable 1 Job Reference (optional) Jacksonville, FL - 32244,

Builders FirstSource (Jacksonville, FL),

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:28 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-415n4QfC8mySJDdK0qkwrK7fnid0jSq\_LyW6w7zTUw9\\$ 

-1-6-0 12-8-0 14-2-0 1-6-0 6-4-0 1-6-0

4x4 =

Scale = 1:35.9

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

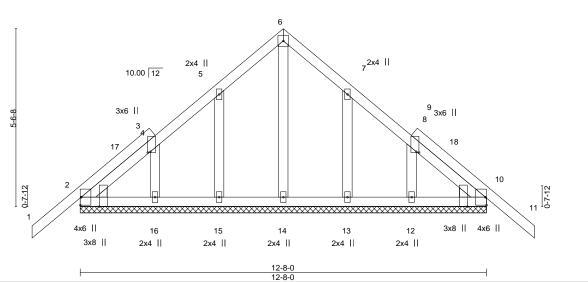


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-5,0-1-0], [9:0-0-5,0-1-0], [10:0-3-8,Edge]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	I2014	Matri	x-S						Weight: 81 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 12-8-0.

(lb) - Max Horz 2=-135(LC 10)

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-

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0, Exterior(2N) 9-4-0 to 14-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.



April 7,2021



Job Truss Type PFS SOLUTIONS - LOT 5 AL Truss Ply Qty T23468878 2714379 T08 Common 3 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:29 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-YDf9llgqv44JwNCWaYF9OXgn\_6u6SuC7acGgTazTUw8 -1-6-0 6-4-0 12-8-0 1-6-0 6-4-0 Scale = 1:38.4 4x4 = 3 10.00 12 0-7-12 5 2x4 || 3x6 II 3x6 II 12-8-0 6-4-0 6-4-0 LOADING (psf) SPACING-GRIP CSI **DEFL PLATES** 2-0-0 in (loc) I/defl I/d Plate Grip DOL 244/190 **TCLL** 20.0 1.25 TC 0.42 Vert(LL) 0.07 5-11 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.09 5-11 >999 180

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

0.02

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

LUMBER-

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3

0.0

10.0

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=134(LC 11)

Max Uplift 2=-119(LC 12), 4=-84(LC 13) Max Grav 2=554(LC 1), 4=464(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-3=-498/167, 3-4=-495/170 **BOT CHORD** 2-5=-32/307, 4-5=-32/307

WEBS 3-5=-23/283

## 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 12-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

WB

Matrix-MS

0.11

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=119.



Weight: 56 lb

FT = 20%

Date:

April 7,2021

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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468879 2714379 T08A Common Girder 2 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:31 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-UcnviRh4QhK1AhMvhzHdTylBvvX?wglQ1wlnXSzTUw6 3-3-6 6-4-0 9-4-10 12-8-0 3-3-6 3-0-10 3-0-10 3-3-6 Scale = 1:37.7 4x4 || \* PROFILE 3 OAQUIN 10.00 12 3x6 // 3x6 🚿 2 5 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 8 7 6 6904 Parke East Blvd. Tampa FL 33610 6x8 = 2x4 || 2x4 || 5x6 = 5x6 = Date: 3-3-6 3-0-10 3-0-10 Plate Offsets (X,Y)--[1:0-0-0,0-1-10], [5:0-0-0,0-1-10], [7:0-4-0,0-4-4] LOADING (psf) DFFI GRIP SPACING-2-0-0 CSL in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.14 Vert(LL) -0.03 6-7 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.48 Vert(CT) -0.06 6-7 >999 180 **BCLL** WB 0.62 Horz(CT) 0.0 Rep Stress Incr NO 0.01 5 n/a n/a BCDL Code FBC2020/TPI2014 Matrix-MS Weight: 163 lb FT = 20% 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=-116(LC 23)

Max Uplift 1=-701(LC 8), 5=-1056(LC 9) Max Grav 1=1983(LC 1), 5=3972(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2676/973, 2-3=-2686/1051, 3-4=-2686/1051, 4-5=-3858/1179 TOP CHORD **BOT CHORD** 1-8=-761/1995, 7-8=-761/1995, 6-7=-866/2918, 5-6=-866/2918

WEBS 3-7=-1260/3232, 4-7=-1220/271, 4-6=-207/1490

## NOTES-

1) 2-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.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2084 lb down and 1066 lb up at 6-4-12, 974 lb down and 167 lb up at 8-4-12, and 1051 lb down and 205 lb up at 10-4-12, and 1059 lb down and 198 lb up at 12-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-5=-54, 9-12=-20

April 7,2021 Continued on page 2



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468879 2714379 T08A Common Girder 2 Job Reference (optional)

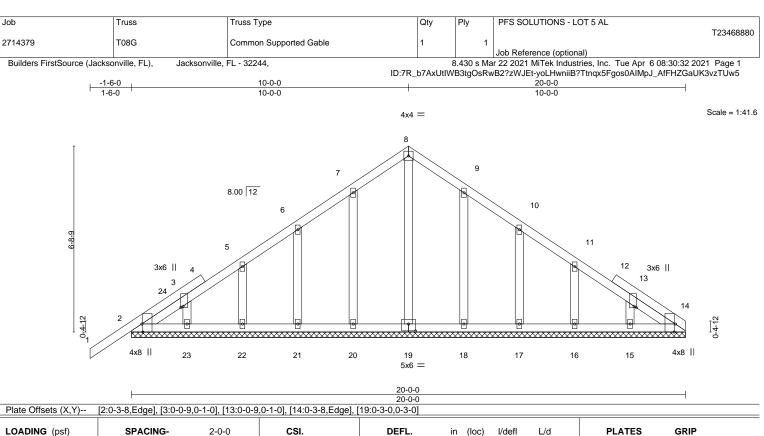
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:31 2021 Page 2 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-UcnviRh4QhK1AhMvhzHdTylBvvX?wglQ1wlnXSzTUw6

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 7=-2084(F) 14=-951(B) 15=-847(F) 16=-943(B)



LOADING	∍ (pst)	SPACING-	2-0-0	CSI.		DEFL.	ın	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-S						Weight: 119 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.

Max Horz 2=154(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15.



Date:

April 7,2021

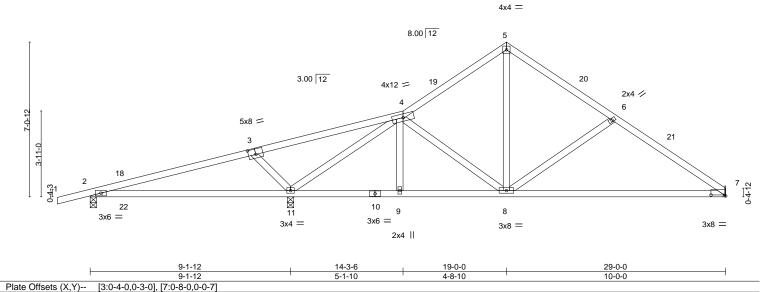


Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468881 2714379 T09 Roof Special Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:33 2021 Page 1

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

 $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-Q\_ug77jKylbkP\_WlpNK5YNrQgj90OXqjUEEtcLzTUw4$ -1-6-0 7-6-0 14-3-6 19-0-0 23-9-13 29-0-0 1-6-0 7-6-0 6-9-6 4-8-10 4-9-13 5-2-3

Scale = 1:52.6



LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) 0.34 11-17 >326	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) 0.28 11-17 >390	180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.02 7 n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 138 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-6-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-11.

REACTIONS. (size) 7=Mechanical, 2=0-3-8, 11=0-3-8

Max Horz 2=163(LC 9)

Max Uplift 7=-144(LC 13), 2=-209(LC 8), 11=-285(LC 12) Max Grav 7=697(LC 1), 2=358(LC 23), 11=1184(LC 1)

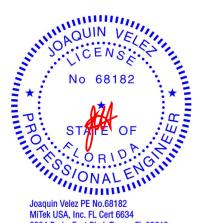
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-4=-95/270, 4-5=-692/239, 5-6=-707/242, 6-7=-941/285 TOP CHORD **BOT CHORD** 9-11=-116/633, 8-9=-117/633, 7-8=-168/759

WEBS 3-11=-487/290, 4-11=-1053/243, 5-8=-116/485, 6-8=-318/198

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-0-0 zone; porch 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=144, 2=209, 11=285.



6904 Parke East Blvd. Tampa FL 33610 Date:

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468882 GABLE 2714379 T09G Job Reference (optional)

4-8-10

14-3-6

6-9-6

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

7-6-0

7-6-0

<u>-1-6-</u>0

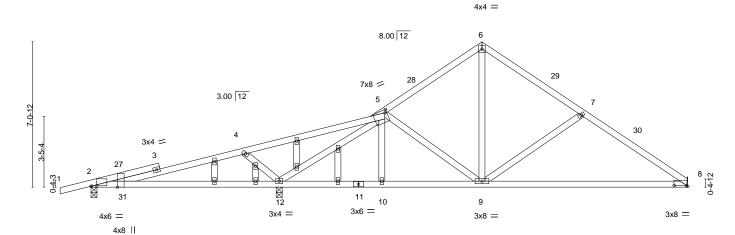
1-6-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:34 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-uBS2LTkzjcjb185UM5rK5bNbP7VM7y3sjuzR8nzTUw3 19-0-0 23-9-13 29-0-0

4-9-13

Scale = 1:56.0

5-2-3



	9-1-12	9-3-8	14-3-6	19-0-0	29-0-0	J
	9-1-12	0-1-12	4-11-14	4-8-10	10-0-0	1
Plate Offsets (X,Y)	[2:0-3-4,0-0-5], [2:0-0-9,Edge], [5:0-1-0,0	-1-12], [8:0-8-0,0-0-	-7]			

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.24	12-23	>458	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.75	Vert(CT)	-0.42	9-26	>562	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.01	8	n/a	n/a			
BCDI.	10.0	Code FBC2020/TPI2014		Matri	v-MS	1					Weight: 149 lh	FT - 20%	

LUMBER-

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

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-7-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-12.

REACTIONS. (size) 2=0-3-8, 8=Mechanical, 12=0-3-8

Max Horz 2=162(LC 11)

Max Uplift 2=-187(LC 8), 8=-143(LC 13), 12=-295(LC 12) Max Grav 2=310(LC 23), 8=676(LC 1), 12=1248(LC 1)

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

TOP CHORD 4-5=-337/554, 5-6=-672/190, 6-7=-668/186, 7-8=-902/229

**BOT CHORD** 10-12=-112/578, 9-10=-111/580, 8-9=-121/727

WEBS 4-12=-513/327, 5-12=-1295/399, 6-9=-103/456, 7-9=-318/198

### 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 8=143, 12=295.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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

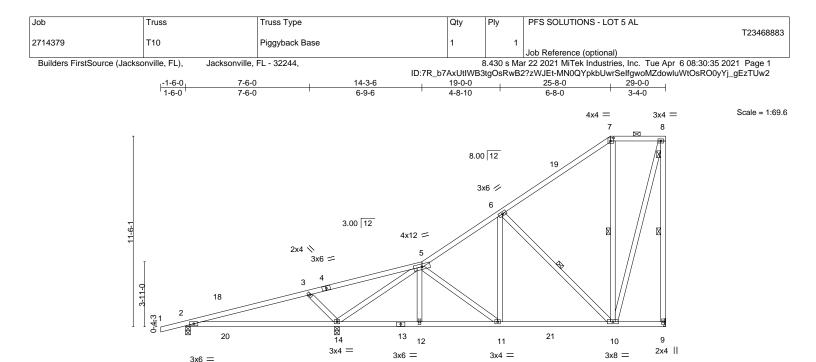


Plate Off	Plate Offsets (X,Y) [7:0-2-4,0-2-4]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.33 14-17	>331	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.31 14-17	>359	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.02 9	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 191 lb	FT = 20%	

5-1-10

2x4 ||

19-0-0

4-8-10

LUMBER-

WEBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **BRACING-**

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

6-8-0

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

3-4-0

7-7-10 oc bracing: 2-14.

**WEBS** 

1 Row at midpt 8-9, 6-10, 7-10

REACTIONS. (size) 9=Mechanical, 2=0-3-8, 14=0-3-8

Max Horz 2=395(LC 12)

Max Uplift 9=-229(LC 12), 2=-200(LC 8), 14=-281(LC 12) Max Grav 9=779(LC 19), 2=340(LC 2), 14=1289(LC 2)

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

TOP CHORD 3-5=-255/309, 5-6=-738/10, 6-7=-318/12, 8-9=-761/276

**BOT CHORD** 2-14=-348/86, 12-14=-238/727, 11-12=-239/723, 10-11=-218/641

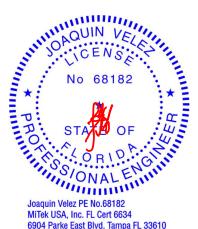
WEBS 3-14=-507/306, 5-14=-1139/233, 6-11=0/366, 6-10=-615/216, 8-10=-264/774

## 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 25-8-0, Exterior(2E) 25-8-0 to 28-10-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.

9-1-12

- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=229, 2=200, 14=281.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



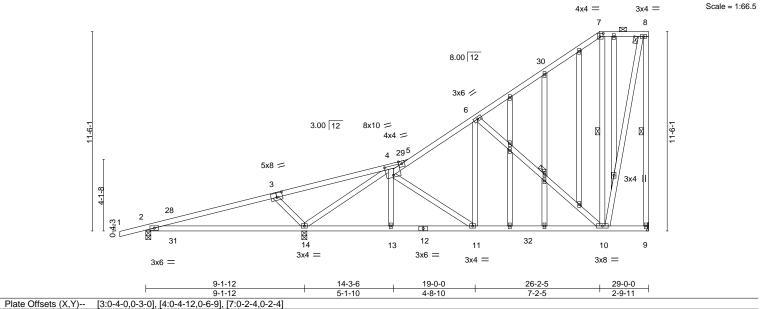
6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021





ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-rZaom9IDFDzJGSEtUWtoA0TxdwCHbty9BCSXCgzTUw1 1-6-0 7-6-0 14-3-6 19-0-0 26-2-5 29-0-0 7-6-0 6-9-6 4-8-10 7-2-5 2-9-11



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) 0.34 14-27 >323 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.66	Vert(CT) -0.32 14-27 >338 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.02 9 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 242 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

**OTHERS** 

REACTIONS.

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

(size)

2x4 SP No.3

Max Horz 2=395(LC 12) Max Uplift 9=-238(LC 12), 2=-208(LC 8), 14=-274(LC 12) Max Grav 9=774(LC 19), 2=328(LC 1), 14=1314(LC 2)

9=Mechanical, 2=0-3-8, 14=0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-227/370, 4-5=-700/0, 5-6=-732/9, 6-7=-298/0, 8-9=-781/271

3-14=-456/294, 4-14=-1194/220, 6-11=-9/355, 6-10=-641/227, 8-10=-274/804

2-14=-347/41, 13-14=-253/686, 11-13=-254/684, 10-11=-229/661

**BOT CHORD** WEBS

### 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 26-2-5, Exterior(2E) 26-2-5 to 28-10-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=238, 2=208, 14=274,
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

8-9, 6-10, 7-10

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-14.

1 Row at midpt

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468885 2714379 T11 Piggyback Base Job Reference (optional)

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:37 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-Jm8AzVmr0X5Aucp32DO1iD?8VKdKKOgIPsC5l6zTUw0

1-6-0 6-2-0 12-4-0 16-11-15 20-10-0 24-6-0 29-4-0 1-6-0 6-2-0 6-2-0 4-7-15 3-10-1 3-8-0 4-10-0

> Scale: 3/16"=1' 4x8 = 4x4 =

> > 3-8-0

2-0-0 oc purlins (6-0-0 max.): 4-5.

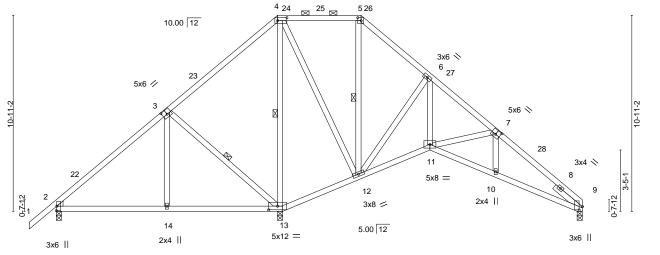
1 Row at midpt

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

4-10-0

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

3-13, 4-13, 5-12



12-7-8 0-3-8 6-2-0 6-2-0 4-4-7 3-10-1 [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0], [7:0-3-0,0-3-0], [9:0-2-3,0-2-3], [13:0-6-0,0-2-7Plate Offsets (X,Y)--

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.04 1	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.07 1	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matri	ix-MS	` ′					Weight: 193 lb	FT = 20%

16-11-15

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

Left: 2x4 SP No.3

**SLIDER** Right 2x4 SP No.3 -t 1-11-8

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 13=0-3-8

Max Horz 2=246(LC 11)

Max Uplift 2=-114(LC 12), 9=-138(LC 13), 13=-226(LC 12) Max Grav 2=433(LC 23), 9=457(LC 24), 13=1475(LC 1)

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

TOP CHORD 2-3=-325/151, 3-4=0/416, 6-7=-485/141, 7-9=-762/236 BOT CHORD

12-13=-364/239, 11-12=-22/365, 10-11=-109/650, 9-10=-117/650 WFBS

3-14=0/290, 3-13=-451/249, 4-13=-1000/86, 4-12=-63/581, 6-12=-555/168, 6-11=-20/508, 7-11=-309/194

# 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-15, Interior(1) 16-6-15 to 16-11-15, Exterior(2R) 16-11-15 to 21-2-14, Interior(1) 21-2-14 to 29-4-0 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=114. 9=138. 13=226.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 7,2021

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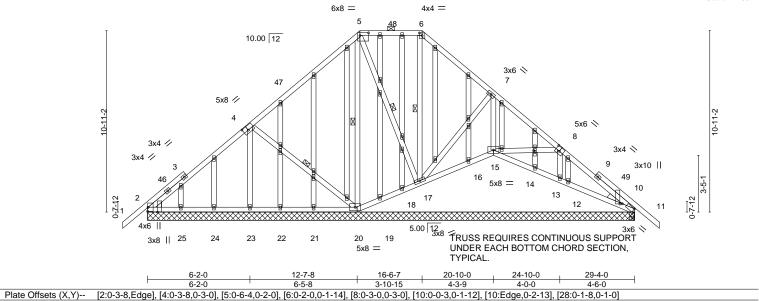
Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468886 GABLE 2714379 T11G Job Reference (optional)

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:40 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-jLpJbWokJSTll3YejMykKsdfYXizXswl5pQlLRzTUvz

1-6-0 1-6-0 6-2-0 12-9-8 16-6-7 20-10-0 24-10-0 29-4-0 6-2-0 6-7-8 3-8-15 4-3-9 4-0-0 4-6-0

Scale = 1:69.4



LOADING (psf) GRIP SPACING-2-0-0 CSL DEFL in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.47 Vert(LL) -0.00 10-12 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.10 Vert(CT) -0.01 10-12 >999 180 **BCLL** Rep Stress Incr YES WB 0.17 Horz(CT) 0.0 0.01 10 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 299 lb FT = 20% 10.0 Matrix-S

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.3 -t 0-11-6

REACTIONS. All bearings 29-4-0.

(lb) -Max Horz 2=-256(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 17, 13, 2, 25 except 23=-183(LC 12),

20=-159(LC 12), 10=-145(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 15, 13, 12, 14, 16, 18, 25,

24, 22, 21, 19 except 23=395(LC 19), 17=415(LC 1), 2=264(LC 23), 10=285(LC

24), 10=283(LC 1)

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

**BOT CHORD** 19-20=-132/270, 18-19=-132/269, 17-18=-124/270

**WEBS** 4-23=-351/194

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-9-8, Exterior(2E) 12-9-8 to 16-6-7, Exterior(2R) 16-6-7 to 20-10-0, Interior(1) 20-10-0 to 30-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13, 2, 25 except (jt=lb) 23=183, 20=159, 10=145.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

4-20, 5-20, 5-17, 6-17

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (6-0-0 max.): 5-6.

1 Row at midpt

6-0-0 oc bracing: 16-17,15-16,12-13.

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

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468887 2714379 T12 Piggyback Base 1 Job Reference (optional)

20-10-0

3-10-1

Builders FirstSource (Jacksonville, FL),

6-2-0

6-2-0

-1-6-0 1-6-0

Jacksonville, FL - 32244,

16-11-15

4-7-15

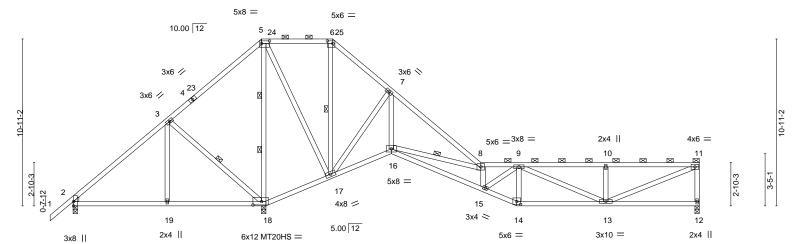
12-4-0

6-2-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:41 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-BXNhpspM4mbcMD7qH3Tzt3AmVxyXG85uKTAlttzTUvy

26-8-5 29-0-8 34-10-8 41-0-0 5-10-5 5-10-0 6-1-8

Scale = 1:75.4



1	6-2-0	12-4-0	12 <sub>7</sub> 7-8 16-11	15 20-10-0	26-8-5	29-0-8	34-10-8	41-0-0	i
Г	6-2-0	6-2-0	0-3-8 4-4-	7 3-10-1	5-10-5	2-4-3	5-10-0	6-1-8	٦
Plate Offsets (	(X,Y) [2:0-3-8,Edge]	], [5:0-6-4,0-2-0], [6	-6-12,0-2-12]						

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.13	15	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.25 1	5-16	>999	180	MT20HS	187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	12	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 258 lb	FT = 20%	

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-0 max.): 5-6, 8-11.

BOT CHORD Rigid ceiling directly applied or 5-4-14 oc bracing. **WEBS** 1 Row at midpt 3-18, 6-17, 8-16

2 Rows at 1/3 pts 5-18

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 18=0-3-8

Max Horz 2=240(LC 9)

Max Uplift 12=-169(LC 13), 2=-648(LC 24), 18=-546(LC 13) Max Grav 12=649(LC 24), 2=141(LC 13), 18=2795(LC 1)

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

2-3=-239/1137, 3-5=-217/1422, 5-6=-41/652, 6-7=-111/882, 7-8=-206/666, TOP CHORD

8-9=-1158/264, 9-10=-1091/280, 10-11=-1091/280, 11-12=-593/183 BOT CHORD 2-19=-837/296, 18-19=-837/296, 17-18=-1181/434, 16-17=-474/245, 15-16=-300/1286,

14-15=-267/1105. 13-14=-254/1031

3-19=0/315, 3-18=-482/256, 5-18=-1959/336, 5-17=-168/937, 6-17=-730/116,

7-17=-389/165, 8-16=-1596/497, 9-14=-352/113, 10-13=-348/171, 11-13=-292/1142

# NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=169, 2=648, 18=546,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468888 2714379 T13 Piggyback Base 1 Job Reference (optional)

5-3-2

2-11-6

20-10-0

3-10-1

Builders FirstSource (Jacksonville, FL)

6-2-0

6-2-0

-1-6-0 1-6-0

Jacksonville, FL - 32244,

16-11-15

4-7-15

12-7-8 16-11-15

Matrix-MS

12-4-0

6-2-0

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6-1-8

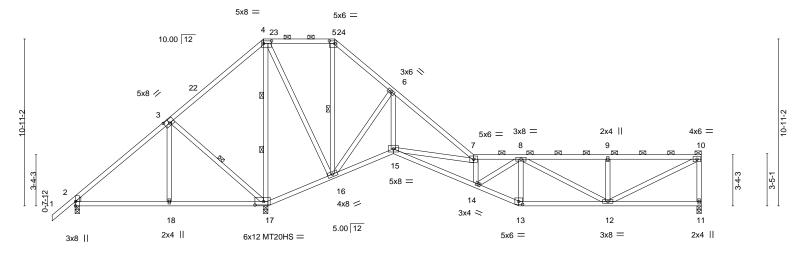
41-0-0

Weight: 261 lb

FT = 20%

5-10-0

Scale = 1:75.4



	0-2-0	5-2-0 0-3-0	5 4-4-7 5-10-	1 3-3-2	2-11-0	3-10-0	0-1-0		
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-4-0,	0-3-0], [4:0-6-4,	0-2-0], [5:0-4-4,0-2-0], [1:	3:0-3-0,0-2-4], [17:0-6-1	2,0-2-12]				
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 0.69	Vert(LL) -0.1	1 14	>999 240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT) -0.2	1 14-15	>999 180	MT20HS	187/143	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT) 0.0	)4 11	n/a n/a			

LUMBER-

BCDL

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

10.0

WEDGE Left: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins. except end verticals, and 2-0-0 oc purlins (5-4-9 max.): 4-5, 7-10.

BOT CHORD Rigid ceiling directly applied or 5-7-14 oc bracing. **WEBS** 1 Row at midpt

2 Rows at 1/3 pts

3-17, 5-16 4-17

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 17=0-3-8

Max Horz 2=244(LC 12)

Max Uplift 11=-178(LC 13), 2=-571(LC 24), 17=-522(LC 13) Max Grav 11=683(LC 24), 2=153(LC 23), 17=2685(LC 1)

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

Code FBC2020/TPI2014

2-3=-216/1023, 3-4=-194/1307, 4-5=-39/559, 5-6=-87/767, 6-7=-140/443, TOP CHORD

7-8=-1133/256, 8-9=-982/252, 9-10=-982/252, 10-11=-628/191 BOT CHORD 2-18=-749/260, 17-18=-747/260, 16-17=-1082/395, 15-16=-298/182, 14-15=-289/1256,

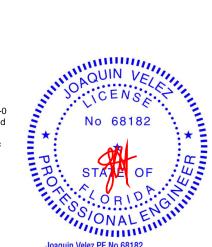
13-14=-263/1073, 12-13=-247/995

**WEBS** 3-18=0/311, 3-17=-481/255, 4-17=-1891/330, 4-16=-176/942, 5-16=-661/105,

6-16=-503/197, 6-15=0/371, 7-15=-1392/425, 8-13=-332/117, 9-12=-349/171,

10-12=-273/1068

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=178 2=571 17=522
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468889 2714379 T14 Piggyback Base 1 Job Reference (optional)

4-7-14

3-6-10

20-10-0

3-10-1

Builders FirstSource (Jacksonville, FL)

6-2-0

6-2-0

-1-6-0 1-6-0

Jacksonville, FL - 32244,

16-11-15

4-7-15

12-4-0

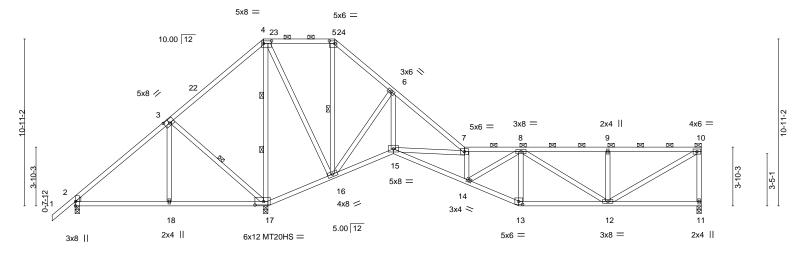
6-2-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:44 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-c63qRurEMhzBDgsPyB0gVioHT9\_kTWiK0ROzUCzTUvvINStructure (Control of the Control of the Contro$ 25-5-14 29-0-8 34-10-8 41-0-0

6-1-8

5-10-0

Scale = 1:75.4



		2-4-0 12 <sub>1</sub> 7-8 i-2-0 0-3-8	16-11-15 4-4-7	20-10-0 3-10-1	25-5-14 4-7-14	29-0-8 3-6-10	-	34-10-8 5-10-0	41-0-0 6-1-8	—
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-4-0,0	0-3-0], [4:0-6-4,0-	2-0], [5:0-4-4	4,0-2-0], [13:0-	-3-0,0-2-4], [17:0	0-6-12,0-2-12]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES 'PI2014	ВС	0.66 0.43 0.82 -MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.09 14 -0.18 14-15 0.05 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 264 lb	<b>GRIP</b> 244/190 187/143 FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-4 max.): 4-5, 7-10.

BOT CHORD **WEBS** 

Rigid ceiling directly applied or 5-10-10 oc bracing. 1 Row at midpt 3-17, 5-16

2 Rows at 1/3 pts

4-17

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 17=0-3-8

Max Horz 2=254(LC 12)

Max Uplift 11=-185(LC 13), 2=-508(LC 24), 17=-504(LC 13) Max Grav 11=711(LC 24), 2=182(LC 23), 17=2595(LC 1)

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

2-3=-199/931, 3-4=-177/1213, 4-5=-37/483, 5-6=-70/674, 6-7=-87/261, 7-8=-1077/239, TOP CHORD

8-9=-892/228, 9-10=-892/228, 10-11=-657/199

BOT CHORD 2-18=-680/230. 17-18=-677/230. 16-17=-1003/362. 14-15=-268/1190. 13-14=-254/1029.

12-13=-236/950

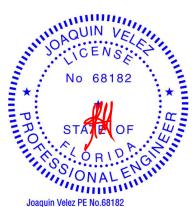
**WEBS** 3-18=0/309, 3-17=-478/255, 4-17=-1835/327, 4-16=-183/947, 5-16=-606/98,

6-16=-602/223, 6-15=-39/524, 7-15=-1198/358, 8-13=-307/118, 9-12=-349/170,

10-12=-257/1009

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=185 2=508 17=504
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468890 2714379 T15 Piggyback Base Job Reference (optional)

3-2-6

5-0-2

20-10-0

3-10-1

Builders FirstSource (Jacksonville, FL),

6-2-0

6-2-0

1-6-0

Jacksonville, FL - 32244,

16-11-15

4-7-15

12-4-0

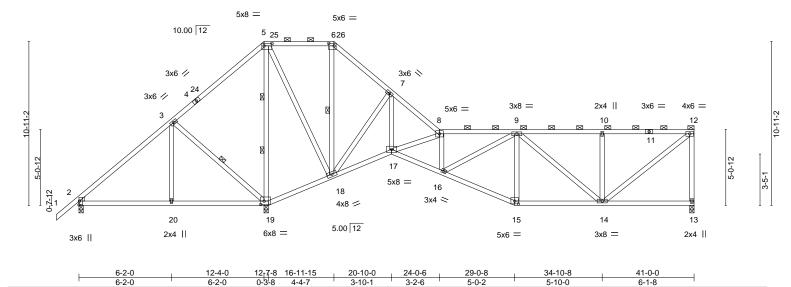
6-2-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:45 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-4ldCfEss7\_51rqQbWvXv1vKT0YKDCzfUF58W0ezTUvu 24-0-6 29-0-8 34-10-8 41-0-0

6-1-8

5-10-0

Scale = 1:76.8



I late Oil	3613 (A, I )	[3.0-0-4,0-2-0], [0.0-4-4,0-2	2-0], [13.0-3-0	1,0-2-4], [13.0-2-12,0-2-12]						
LOADIN	G (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)	-0.07 16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.14 15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.06 13	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	I2014	Matrix-MS					Weight: 272 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-0 max.): 5-6, 8-12.

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

WEBS 1 Row at midpt 3-19, 6-18

2 Rows at 1/3 pts 5-19

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 19=0-3-8

Max Horz 2=278(LC 12)

Max Uplift 13=-198(LC 13), 2=-399(LC 24), 19=-477(LC 13) Max Grav 13=760(LC 24), 2=233(LC 23), 19=2439(LC 1)

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

2-3=-182/772, 3-5=-155/1049, 5-6=-35/351, 6-7=-56/512, 8-9=-890/188, 9-10=-726/185, TOP CHORD

10-12=-726/185, 12-13=-707/211 BOT CHORD

2-20=-560/192, 19-20=-560/192, 18-19=-863/299, 16-17=-209/973, 15-16=-230/918,

14-15=-211/837

3-20=0/305, 3-19=-469/255, 5-19=-1735/327, 5-18=-198/957, 6-18=-511/91, 7-18=-773/263, 7-17=-140/805, 8-17=-838/234, 10-14=-341/166, 12-14=-231/907

### NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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) 13=198, 2=399, 19=477.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468891 2714379 T16 Piggyback Base Job Reference (optional)

1-7-3

6-7-5

20-10-0

3-10-1

Builders FirstSource (Jacksonville, FL),

6-2-0

6-2-0

1-6-0

Jacksonville, FL - 32244,

16-11-15

4-7-15

12-4-0

6-2-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:47 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-0hly3vu7fcMl58a\_dKaN6KQpsM0Ggr?niPdd4XzTUvs 29-0-8 34-10-8 41-0-0

6-1-8

6-1-8

5-10-0

Scale = 1:76.8

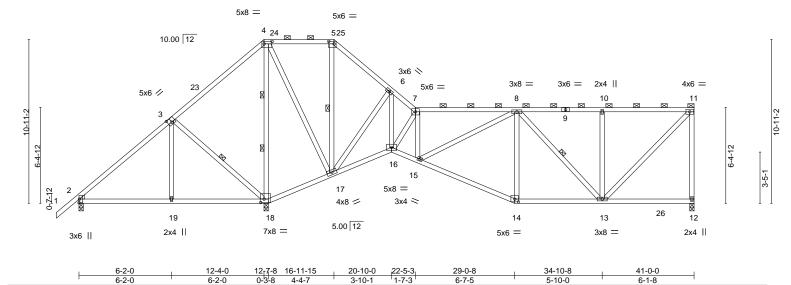


Plate Offsets (>	(,Y)	[3:0-3-0,0-3-4], [4:0-6-4,0	-2-0], [5:0-4-4	,0-2-0], [14:0-	3-0,0-2-4],	[18:0-2-12,0-2-12]						
LOADING (psf	)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	)	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.10 1	4-15	>999	240	MT20	244/190
TCDL 7.0	)	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.20 1	4-15	>999	180		
BCLL 0.0	) *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	12	n/a	n/a		
BCDL 10.0	)	Code FBC2020/TI	PI2014	Matri	x-MS	, ,					Weight: 283 lb	FT = 20%

3-10-1

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 7-11.

5-10-0

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 3-18, 5-17, 8-13

2 Rows at 1/3 pts 4-18

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 18=0-3-8

Max Horz 2=304(LC 12)

Max Uplift 12=-208(LC 13), 2=-320(LC 24), 18=-463(LC 13) Max Grav 12=878(LC 26), 2=270(LC 23), 18=2490(LC 2)

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

2-3=-190/655, 3-4=-167/976, 4-5=-34/280, 5-6=-54/404, 6-7=-410/93, 7-8=-721/136, TOP CHORD

8-10=-645/154, 10-11=-645/154, 11-12=-762/222

BOT CHORD 2-19=-471/172, 18-19=-469/173, 17-18=-828/246, 16-17=-65/335, 15-16=-153/752,

6-2-0

14-15=-209/884. 13-14=-189/776

**WEBS** 3-19=0/302, 3-18=-561/255, 4-18=-1713/335, 4-17=-210/1028, 5-17=-436/87, 6-17=-956/292, 6-16=-224/1133, 7-16=-808/182, 7-15=-10/285, 10-13=-326/158,

11-13=-215/902

- 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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) 12=208, 2=320, 18=463,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468892 2714379 T17 Piggyback Base 1 Job Reference (optional)

20-10-0

3-10-0

Builders FirstSource (Jacksonville, FL),

6-2-0

6-2-0

1-6-0

Jacksonville, FL - 32244,

16-11-15

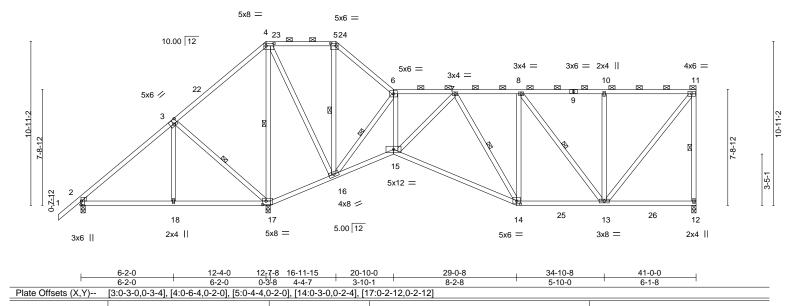
4-7-15

12-4-0

6-2-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:48 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-UtILHFulQvUcil9AB15cfYy?DmHMPGYwx3MAdzzTUvr$ 24-11-4 29-0-8 34-10-8 41-0-0 4-1-4 5-10-0 6-1-8

Scale = 1:76.8



SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSL DEFL in (loc) I/defI L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.55 Vert(LL) -0.20 14-15 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.71 Vert(CT) -0.41 14-15 >819 180 **BCLL** Rep Stress Incr YES WB 0.96 Horz(CT) 0.0 0.06 12 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 292 lb FT = 20% 10.0 Matrix-MS

LUMBER-

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

Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-11.

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

11-12, 3-17, 4-17, 5-16, 6-16, 7-14, 8-13 **WEBS** 1 Row at midpt

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 17=0-3-8

Max Horz 2=330(LC 12)

Max Uplift 12=-226(LC 9), 2=-217(LC 24), 17=-438(LC 13) Max Grav 12=957(LC 26), 2=317(LC 23), 17=2371(LC 2)

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

2-3=-188/504, 3-4=-165/835, 5-6=-21/259, 6-7=-560/123, 7-8=-735/174, 8-10=-592/143, TOP CHORD

10-11=-592/143. 11-12=-836/240

BOT CHORD 2-18=-357/149, 17-18=-354/149, 16-17=-711/183, 15-16=-136/639, 14-15=-224/857,

13-14=-176/736

3-18=0/298, 3-17=-555/255, 4-17=-1638/335, 4-16=-222/1045, 5-16=-335/85,

6-16=-1215/315, 6-15=-168/947, 7-15=-264/106, 10-13=-354/172, 11-13=-224/928

### NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2E) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) 12=226, 2=217, 17=438.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468893 2714379 T18 Piggyback Base Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:51 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-uS\_TvHxdjqsBZluls9eJHAaPszHlcdoMd1bqDlzTUvo 26-4-11 1-6-0 6-2-0 12-4-0 16-11-15 19-2-12 33-6-9 41-0-0 7-1-15 6-2-0 6-2-0 4-7-15 2-2-13 7-1-15 7-5-7 Scale = 1:74.6 5x6 = 5x8 = 4 24 525 10.00 12 3x8 = 2x4 | 3x6 =4x6 =5x6 = 6 7 10 5x6 // 10-11-2 3 14 13 17 26 27 28 29 19 18 15 12 11 16 2x4 || 3x6 4x8 = 3x4 =2x4 || 5x8 = 3x4 || 4x8 || 3x4 = 4x6 =41-0-0 16-11-15 7-1-15 6-2-0 6-2-0 4-7-15 7-1-15 7-5-7 Plate Offsets (X,Y)--[2:0-3-8,Edge], [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0] SPACING-CSL DFFI PI ATES GRIP LOADING (psf) 2-0-0 in (loc) I/defI L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.97 Vert(LL) -0.22 14-15 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.82 Vert(CT) -0.38 14-15 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.99 Horz(CT) 0.10 n/a n/a BCDL Code FBC2020/TPI2014 Matrix-MS Weight: 312 lb FT = 20% 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-1 max.): 4-5, 6-10. **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 BOT CHORD WEBS Rigid ceiling directly applied or 8-9-2 oc bracing. WEDGE 3-18, 6-16, 6-15, 7-12, 9-12 **WEBS** 1 Row at midpt 2 Rows at 1/3 pts 10-11

Left: 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=356(LC 12)

Max Uplift 11=-372(LC 9), 2=-254(LC 12) Max Grav 11=1761(LC 2), 2=1752(LC 2)

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

2-3=-2245/368, 3-4=-1921/395, 4-5=-1607/383, 5-6=-2103/471, 6-7=-2019/403, TOP CHORD

7-9=-1238/260, 9-10=-1238/260, 10-11=-1609/390 BOT CHORD 2-19=-452/1695, 18-19=-451/1698, 16-18=-317/1407, 15-16=-405/2018, 14-15=-387/1907.

12-14=-387/1907

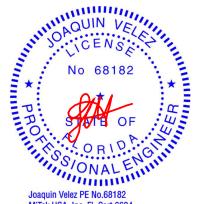
3-18=-431/242, 4-18=-118/524, 4-16=-131/581, 5-16=-234/1181, 6-16=-1631/365,

7-15=-94/269, 7-14=0/408, 7-12=-1059/211, 9-12=-420/203, 10-12=-402/1912

### NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2E) 16-11-15 to 19-2-12, Interior(1) 19-2-12 to 40-10-4 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.
- \* 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) 11=372, 2=254.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qtv T23468894 2714379 T19 Half Hip Girder 3 Job Reference (optional) Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:54 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-J1gcXJzW0IEmQDcKXIC0vpC6YBSDp1\_pJ?pUqdzTUvI <del>1-6-0</del> 6-4-12 11-8-6 17-10-4 29-5-2 35-1-11 41-0-0 6-4-12 5-3-10 6-1-14 5-10-5 5-8-9 5-10-5 Scale = 1:71.6 3x6 =2x4 || 5x8 = 3x6 =3x4 =3x4 =4x6 =5 6 22 8 9 10 10.00 12 5x6 // 3 **Γ**Φ <u>⊠</u> 15 37 <sub>3811</sub> 23 25 26 24 16 27 28 29 30 31 32 33 34 35 36 18 17 14 13 12 6x8 = 4x8 = 3x6 II 3x8 || 6x8 = 8x10 = 6x8 =4x6 4x8 = 17-11-4 0-1-0 17-10-4 41-0-0 6-4-12 5-3-10 6-1-14 5-9-5 5-8-9 5-8-9 5-10-5 Plate Offsets (X,Y)--[3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [13:0-5-0,0-6-0], [14:0-3-8,0-3-12], [17:0-3-8,0-4-4] DEFI LOADING (psf) SPACING-2-0-0 CSL in (loc) I/defI L/d PLATES GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.24 Vert(LL) -0.05 17-18 >999 240 MT20 244/190

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WFRS

-0.09 17-18

0.01

>999

except end verticals

1 Row at midpt

n/a

180

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

10-11

LUMBER-

REACTIONS.

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

2x4 SP No.3 WEBS

7.0

0.0

10.0

(size) 11=0-3-8, 2=0-3-8, 15=0-5-8 Max Horz 2=374(LC 27)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

Max Uplift 11=-570(LC 4), 2=-960(LC 8), 15=-2726(LC 8) Max Grav 11=3338(LC 22), 2=2891(LC 2), 15=11000(LC 2)

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

2-3=-4029/1342, 3-4=-1804/522, 4-5=-291/1006, 5-6=-291/1006, 6-8=-1345/231, TOP CHORD

8-9=-1972/362, 9-10=-1422/250, 10-11=-2572/494

2-18=-1258/3025, 17-18=-1253/3014, 15-17=-477/1390, 14-15=-231/1345, BOT CHORD

13-14=-362/1966, 12-13=-250/1422

WEBS 3-18=-1171/2882. 3-17=-2411/1134. 4-17=-1391/4761. 4-15=-4554/1405. 5-15=-371/178.

1.25

NO

вс

WB

Matrix-MS

0.23

0.77

6-15=-4591/1028, 6-14=-752/3715, 8-14=-1262/276, 8-13=-107/851, 9-13=-228/1116,

9-12=-1243/362, 10-12=-497/2840

### NOTES-

1) 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: 2x8 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-8-0 oc, Except member 17-3 2x4 - 1 row at 0-9-0 oc, member 17-4 2x4 - 1 row at 0-9-0 oc, member 15-4 2x4 - 1 row at 0-9-0 oc, member 5-15 2x4 - 1 row at 0-9-0 oc, member 15-6 2x4 - 1 row at 0-9-0 oc, member 6-14 2x4 - 1 row at 0-9-0 oc. member 14-8 2x4 - 1 row at 0-9-0 oc. member 8-13 2x4 - 1 row at 0-9-0 oc. member 13-9 2x4 - 1 row at 0-9-0 oc, member 9-12 2x4 - 1 row at 0-9-0 oc, member 12-10 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=570, 2=960, 15=2726.



Weight: 1142 lb

FT = 20%

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April 7,2021

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL	
					T23468	8894
2714379	T19	Half Hip Girder	1	3	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:54 2021 Page 2  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-J1gcXJzW0IEmQDcKXIC0vpC6YBSDp1\_pJ?pUqdzTUvIPLPQCCXIC0vpC6YBSDp1\_pJ?pUqdzTUvIPLPQCXIC0vpC6YBSDp1\_pJ?pUqdzTUVIPLPQCXIC0vpC6YBSDp1\_pJ?pUqdzTUVIPLPQCXIC0vpC6YBSDp1\_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC6YBSDp1_pVPQCXIC0vpC$ 

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2054 lb down and 1092 lb up at 6-4-12, 982 lb down and 226 lb up at 8-4-12, 975 lb down and 227 lb up at 10-4-12, 965 lb down and 227 lb up at 12-4-12, 960 lb down and 227 lb up at 14-4-12, 964 lb down and 221 lb up at 15-8-12, 909 lb down and 223 lb up at 19-8-12, 898 lb down and 223 lb up at 21-7-4, 962 lb down and 221 lb up at 23-7-4, 890 lb down and 227 lb up at 25-7-4, 879 lb down and 227 lb up at 27-7-4, 327 lb down and 57 lb up at 29-7-4, 326 lb down and 57 lb up at 31-7-4, 317 lb down and 57 lb up at 33-7-4, 329 lb down and 57 lb up at 35-7-4, 323 lb down and 57 lb up at 37-7-4, and 317 lb down and 57 lb up at 39-7-4, and 328 lb down and 53 lb up at 40-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 11-19=-20

Concentrated Loads (lb)

Vert: 16=-836(B) 18=-2054(B) 14=-836(B) 13=-300(B) 23=-847(B) 24=-840(B) 25=-840(B) 26=-840(B) 27=-848(B) 29=-848(B) 30=-840(B) 32=-840(B) 33=-300(B)

34=-300(B) 35=-300(B) 36=-300(B) 37=-300(B) 38=-304(B)



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468895 2714379 T20 Piggyback Base Job Reference (optional) Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:55 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-nDD\_le\_8n3Md2NBW5?jFR0IDUal5YZoyYfZ2M3zTUvk

Structural wood sheathing directly applied or 6-0-0 oc purlins,

2-12, 3-9, 4-9, 5-9, 5-8, 6-7

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

4x8 =

Scale = 1:71.8

4-11-8 9-7-8 15-9-8 21-11-8 23-8-12 4-11-8 4-8-0 6-2-0 6-2-0 1-9-4

2x4 ||

4x8 =

<sub>⊠</sub> 16 3x6 × 8.00 12 3x6 / 15 2 3x6 / 10-7-15 11 18 19 13 12 9 4x4 = 2x4 || 2x4 || 3x6 =3x4 = 3x4 = 3x8 =

4-11-8	9-7-8	15-9-8	21-11-8	23-8-12
4-11-8	4-8-0	6-2-0	6-2-0	1-9-4

Plate Offsets (X,Y)	[3:0-5-12,0-2-0], [5:0-5-12,0-2-0]
	1

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	0.48	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 237 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

REACTIONS.

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

2x4 SP No.3 \*Except\* WEBS

3-9,5-9: 2x4 SP No.2

(size) 13=Mechanical, 7=Mechanical

Max Horz 13=197(LC 12)

Max Uplift 13=-147(LC 12), 7=-206(LC 12) Max Grav 13=996(LC 2), 7=1018(LC 2)

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

TOP CHORD 1-2=-630/123, 2-3=-679/197, 3-4=-486/151, 4-5=-486/151, 1-13=-923/159,

6-7=-1036/197

BOT CHORD 10-12=-243/518. 9-10=-182/514

**WEBS** 2-12=-337/77, 3-10=-76/272, 4-9=-389/189, 5-9=-218/725, 5-8=-703/226, 1-12=-61/695,

6-8=-192/928

### 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=20ft; 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 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468896 GABLE 2714379 T20G Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:57 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-jcLkAK?OJgcKHgLvDQljWRqVJOOz0LCF0z29RyzTUvi$ 

3x10 ||

Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 3-5.

6-7

3-9, 4-9, 5-9, 5-8, 6-8

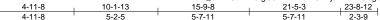
Rigid ceiling directly applied or 8-10-12 oc bracing.

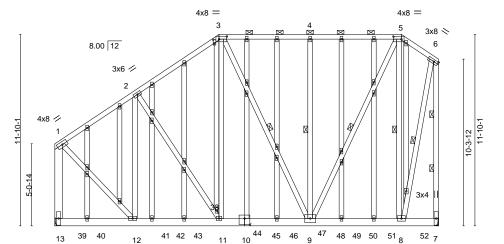
1 Row at midpt

2 Rows at 1/3 pts

4x6 =

Scale = 1:71.3





		4-11-8	10-1-13	15-9-8	21-5-3	23-8-12
		4-11-8	5-2-5	5-7-11	5-7-11	2-3-9
Plate Offsets (X Y)	[3.0-2-11 0-0-12] [3.0-5	-12 0-2-01 [5:0-6-0	0-2-01 [10:0-4-0 0-4-8]			

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

6x8 =

I late Of	13613 (A, 1)	[3.0-2-11,0-0-12], [3.0-3-12,0-2-	0], [3.0-0-0	0,0-2-0], [1	0.0-4-0,0-4-0	1					
LOADIN	IG (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.2	5	TC	0.72	Vert(LL)	0.09 11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.2	5	BC	0.55	Vert(CT)	-0.12 9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr N	o	WB	1.00	Horz(CT)	0.01 7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matri	x-MS					Weight: 396 lb	FT = 20%

3x4 = 7x8 =

LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.2

2x4 SP No.3 \*Except\* WEBS

3-9,5-9,6-7: 2x4 SP No.2, 1-13: 2x6 SP No.2

**OTHERS** 2x4 SP No.3

REACTIONS. (size) 13=Mechanical, 7=Mechanical

Max Horz 13=221(LC 5)

Max Uplift 13=-1046(LC 8), 7=-1072(LC 8) Max Grav 13=2226(LC 33), 7=2148(LC 33)

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

1-2=-1383/623, 2-3=-1432/726, 3-4=-1012/561, 4-5=-1012/561, 5-6=-486/255, TOP CHORD

3x10 ||

3x6 =

1-13=-1893/871, 6-7=-2058/1021

BOT CHORD 11-12=-661/1167. 9-11=-620/1156. 8-9=-194/383

**WEBS** 2-12=-364/129, 11-38=-371/793, 3-38=-441/836, 3-9=-303/198, 4-9=-354/175,

5-9=-778/1450, 5-8=-1186/611, 1-12=-671/1482, 6-8=-911/1797

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=1046 7=1072
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 7,2021

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
274 4270	T20C	CARLE	_	,	T23468896
2714379	T20G	GABLE	1	'	Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:57 2021 Page 2 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-jcLkAK?OJgcKHgLvDQljWRqVJOOz0LCF0z29RyzTUvi

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 213 lb down and 157 lb up at 0-9-2, 209 lb down and 161 lb up at 2-9-2, 209 lb down and 161 lb up at 4-9-2, 209 lb down and 161 lb up at 6-9-2, 209 lb down and 161 lb up at 8-9-2, 209 lb down and 161 lb up at 10-9-2, 209 lb down and 161 lb up at 12-9-2, 209 lb down and 161 lb up at 14-9-2, 209 lb down and 161 lb up at 16-9-2, 209 lb down and 161 lb up at 18-9-2, and 209 lb down and 161 lb up at 20-9-2, and 210 lb down and 160 lb up at 22-9-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) 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: 1-3=-54, 3-5=-54, 5-6=-54, 7-13=-20

Concentrated Loads (lb)

Vert: 12=-204(F) 39=-208(F) 40=-204(F) 41=-204(F) 43=-204(F) 44=-204(F) 45=-204(F) 47=-204(F) 48=-204(F) 50=-204(F) 51=-204(F) 52=-205(F)

Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468897 2714379 T21 Piggyback Base Job Reference (optional)

9-7-8

4-8-0

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244, 4-11-8

4-11-8

1-6-8 1-6-8

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:58 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-Bov7Ng003\_kBvqw5m7Gy3fNkqomplwbOEdnizOzTUvh 15-9-8 21-11-8 23-8-12 6-2-0 6-2-0 1-9-4

4x8 = 2x4 || 4x8 = <u></u> 17 18<sub>⊠</sub> 3x6 < 8.00 12 3x6 // 3 <sup>16</sup> 3x8 🖊 11-10-1 10-7-15 19 11 20 21 14 13 12 10 8 4x4 = 2x4 | 13x4 II 3x6 =3x4 = 3x4 = 3x8 =

4-11-8 21-11-8 1-9-4 4-11-8 4-8-0 6-2-0 6-2-0

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

Plate Offsets (X,Y)	[4:0-5-12,0-2-0], [6:0-5-12,0-2-0]	

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.07	9-10	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.11	9-10	>999	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	8	n/a	n/a
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS					

GRIP **PLATES** MT20 244/190

Scale = 1:71.8

Weight: 244 lb FT = 20%

3-13, 4-10, 5-10, 6-10, 6-9, 7-8

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

LUMBER-

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

2x4 SP No.3 \*Except\* WEBS

4-10,6-10: 2x4 SP No.2, 2-14: 2x6 SP No.2

REACTIONS. (size) 14=Mechanical, 8=Mechanical

Max Horz 14=239(LC 9)

Max Uplift 14=-185(LC 12), 8=-207(LC 9) Max Grav 14=1071(LC 2), 8=1010(LC 2)

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

TOP CHORD 2-3=-626/131, 3-4=-667/192, 4-5=-481/149, 5-6=-481/149, 2-14=-998/196,

7-8=-1028/198

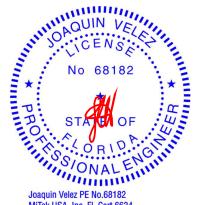
BOT CHORD 12-13=-236/525, 10-12=-179/508

3-13=-335/72, 4-12=-75/273, 5-10=-388/189, 6-10=-216/716, 6-9=-697/238, WFBS

2-13=-53/680, 7-9=-203/921

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468898 2714379 T22 Piggyback Base Job Reference (optional)

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:30:59 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-f?TVb01eqIs2X\_VHKrnBcswugC65ULbYTHXFWqzTUvg

Structural wood sheathing directly applied or 6-0-0 oc purlins,

2-12, 3-10, 3-9, 4-9, 5-8, 6-7

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

Scale = 1:71.8

4-11-8 9-7-8 21-11-8 23-8-12 4-11-8 4-8-0 6-2-0 6-2-0 1-9-4

4x8 = 2x4 | 4x8 = <u></u> 17 18 ⋈ 8.00 12 3x6 × 3x6 // 16 2 3x8 / 10-7-15 40-0-8-7-0 11 19 20 13 12 9 4x4 = 2x4 | I |3x6 =3x6 =3x4 = 3x4 = 3x8 =

> 4-11-8 15-9-8 4-11-8 4-8-0 6-2-0 6-2-0

> > **BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

Plate Offsets (X,Y)	[3:0-5-12,0-2-0], [5:0-5-12,0-2-0]

LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL 7.	.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.11	8-9	>999	180		
BCLL 0	.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.	.0	Code FBC2020/TF	12014	Matri	x-MS	1 ' '					Weight: 245 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 \*Except\* WEBS

3-9,5-9: 2x4 SP No.2, 1-13: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

REACTIONS. (size) 13=0-3-0, 7=Mechanical

Max Horz 13=204(LC 9)

Max Uplift 13=-143(LC 12), 7=-201(LC 9) Max Grav 13=974(LC 2), 7=1004(LC 2)

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

TOP CHORD 1-2=-593/122, 2-3=-658/183, 3-4=-477/145, 4-5=-477/145, 1-13=-907/156,

6-7=-1023/195

BOT CHORD 10-12=-221/507. 9-10=-171/499

**WEBS** 2-12=-348/87, 3-10=-70/260, 4-9=-388/189, 5-9=-208/709, 5-8=-692/233, 1-12=-72/658,

6-8=-198/916

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-8-4 to 3-8-4, Interior(1) 3-8-4 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=143, 7=201.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468899 2714379 T23 Piggyback Base 1 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:01 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-cNbF?i2vMv6mmlfgSGqfhH?Eg?pxyFirwa0MajzTUve\\$ 

Structural wood sheathing directly applied or 6-0-0 oc purlins.

5-13, 6-12

3-16, 4-15, 5-12, 7-10, 8-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14.

1 Row at midpt

1 Row at midpt

-1-6-8 4-11-8 9-7-8 11-5-8 14-9-8 21-11-8 23-8-12 1-6-8 4-11-8 4-8-0 1-10-0 3-4-0 7-2-0 1-9-4

Scale = 1:72.2

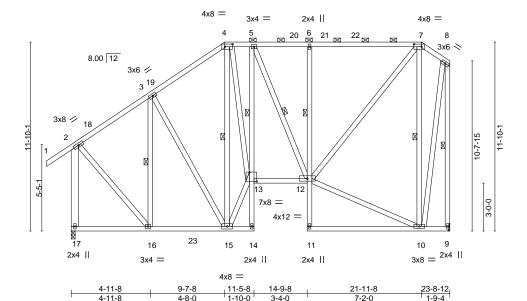


Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [7:0-5-12,0-2-0], [13:0-5-8,0-6-12]

LOADIN	<b>G</b> (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.50	<b>DEFL.</b> in (loc) Vert(LL) -0.09 10-11	l/defl L/d >999 240	<b>PLATES GRIP</b> MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.35	Vert(CT) -0.18 10-11	>999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.10 9	n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 281 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* BOT CHORD 5-14.6-11: 2x4 SP No.3

2x4 SP No.3 \*Except\* WFRS

2-17: 2x6 SP No.2

REACTIONS. (size) 17=0-3-0, 9=Mechanical

Max Horz 17=239(LC 9)

Max Uplift 17=-185(LC 12), 9=-207(LC 9) Max Grav 17=1032(LC 2), 9=929(LC 2)

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

2-3=-600/130, 3-4=-627/195, 4-5=-631/247, 5-6=-615/209, 6-7=-616/209, TOP CHORD

2-17=-960/195, 8-9=-962/194

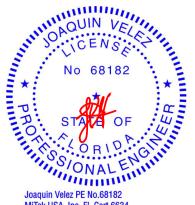
BOT CHORD 15-16=-236/504. 12-13=-227/635. 6-12=-369/176

 $3\text{-}16\text{=-}340/77, \, 4\text{-}15\text{=-}732/243, \, 13\text{-}15\text{=-}365/986, \, 4\text{-}13\text{=-}261/893, \, 7\text{-}12\text{=-}255/751, \, \\$ **WEBS** 

7-10=-714/268, 2-16=-54/651, 8-10=-207/873

### NOTES-

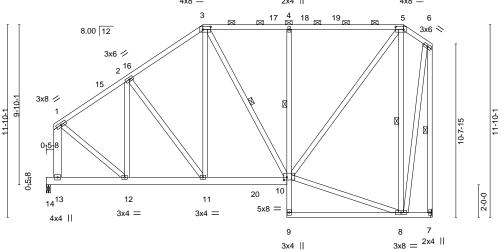
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=185, 9=207.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468900 2714379 T25 Piggyback Base 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:02 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX\_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9Elw69zTUvdAxUtIWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXOFP7XhkX_9TQ0x_$ 4-11-8 9-7-8 14-9-8 21-11-8 23-8-12 4-11-8 4-8-0 5-2-0 7-2-0 Scale = 1:70.8 4x8 = 2x4 || 4x8 =



	1	4-11-8	9-7-8	14-9-8	21-11-8	23-8-12
		4-11-8	4-8-0	5-2-0	7-2-0	1-9-4
Plate Offsets (X.Y)	[3:0-5-12 0-2-0] [5:0	)-5-12 0-2-01 [10·0-2	2-4 0-2-01			

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.02	14	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	` ′					Weight: 241 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

1 Row at midpt

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 \*Except\* BOT CHORD

10-14: 2x6 SP No.2, 4-9: 2x4 SP No.3

2x4 SP No.3 \*Except\* WFRS

1-13: 2x6 SP No.2

REACTIONS. (size) 14=0-3-0, 7=Mechanical

Max Horz 7=183(LC 9)

Max Uplift 14=-143(LC 12), 7=-203(LC 9) Max Grav 14=926(LC 2), 7=948(LC 2)

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

1-2=-780/136, 2-3=-771/188, 3-4=-573/154, 4-5=-573/154, 1-13=-921/167, TOP CHORD

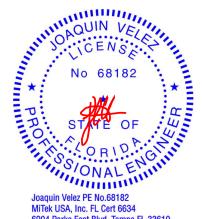
6-7=-978/189

BOT CHORD 11-12=-103/611. 10-11=-102/592. 4-10=-392/191

**WEBS** 3-11=-58/323, 5-10=-181/726, 5-8=-701/204, 1-12=-82/682, 6-8=-203/886

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-8-4 to 3-8-4, Interior(1) 3-8-4 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 7=203,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

4-10

3-10, 5-8, 6-7

6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468901 2714379 T26 Piggyback Base Job Reference (optional)

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:02 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-4a9dD23X7DEdOREs?zLuDVXTQP68hpo\_9Elw69zTUvd

Structural wood sheathing directly applied or 6-0-0 oc purlins,

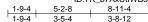
4-5, 2-6, 3-6, 3-5, 1-7

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.

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

1 Row at midpt

Scale = 1:72.7



8.00 12 4x4 = 2x4 || 3x4 =2 4 3x6 / 3 8 5 10 6 П 2x4 3x4 =

1-9-4	8-11-4
1-9-4	7-2-0

3x8 =

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) -0.12 5-6 >838 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.19 5-6 >539 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 126 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

WFBS 2x4 SP No.3

REACTIONS. (size) 7=Mechanical, 5=0-3-8

Max Horz 7=38(LC 12)

Max Uplift 7=-37(LC 9), 5=-112(LC 9) Max Grav 7=367(LC 2), 5=379(LC 2)

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

TOP CHORD 1-7=-447/44 WEBS 1-6=-34/376

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-9-4, Exterior(2R) 1-9-4 to 6-0-2, Interior(1) 6-0-2 to 8-9-8 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
					T23468902
2714379	TG01	Flat Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:03 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-Ymi?QO49uWNU?bo3Zhs7mi4d3pYCQIH7OuVTfczTUvc

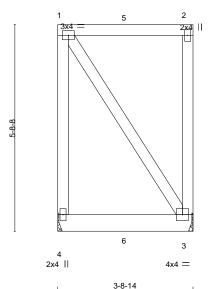
Structural wood sheathing directly applied or 3-8-14 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

3-8-14 3-8-14

Scale: 3/8"=1'



LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20	014	Matri	x-MP						Weight: 38 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

3-8-14

LUMBER-**BOT CHORD** 

REACTIONS.

TOP CHORD 2x4 SP No.2 2x6 SP No.2

WFBS 2x4 SP No.3

(size) 4=Mechanical, 3=Mechanical

Max Uplift 4=-93(LC 4), 3=-97(LC 4) Max Grav 4=164(LC 1), 3=167(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=20ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 89 lb up at 1-11-4 on top chord, and 65 lb down and 56 lb up at 1-11-4 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: 1-2=-54, 3-4=-20 Concentrated Loads (lb) Vert: 5=-50(B) 6=-25(B)



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468903 GABLE 2714379 V01 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:04 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-0yGOej5nfqVLdINF7ONMJwdswDvi9iEHdYE0B2zTUvb$ 

14-9-12 20-0-4 14-9-12 5-2-8

4x4 =

Scale = 1:59.1

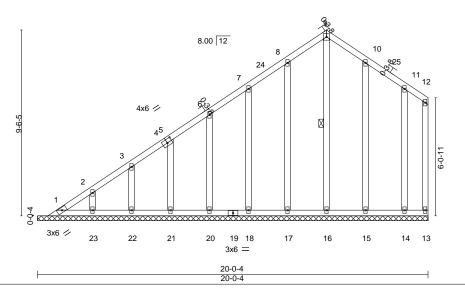


Plate Offsets (X,Y)-- [4:0-3-0,0-2-4]

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.05	<b>DEFL.</b> i Vert(LL) n/	in (loc)	l/defl n/a	L/d 999	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT) n/	'a -	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.0	0 13	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 144 lb FT = 20%

LUMBER-

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

**BRACING-**

**WEBS** 

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 9-16

REACTIONS. All bearings 20-0-4

(lb) - Max Horz 1=251(LC 12)

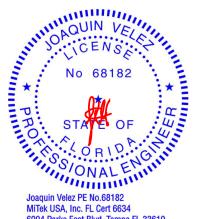
Max Uplift All uplift 100 lb or less at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14

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

TOP CHORD 1-2=-284/177

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-0-1 to 4-0-1, Interior(1) 4-0-1 to 14-9-12, Exterior(2R) 14-9-12 to 17-9-12, Interior(1) 17-9-12 to 19-10-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468904 2714379 V02 Valley Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:05 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-U8qmr36PQ8dCFvyRh6ubr79?vcDcu82QrC\_ajUzTUva 12-3-12 17-6-4 12-3-12 5-2-8 Scale = 1:50.3 4x4 = 15 16 8.00 12 5 2 3x6 / 12 11 10 9 8 7 3x6 =17-6-4 17-6-4 LOADING (psf) GRIP SPACING-CSI **DEFL PLATES** 2-0-0 in I/defl I/d 244/190 Plate Grip DOL **TCLL** 20.0 1.25 TC 0.17 Vert(LL) n/a n/a 999 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.18 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.24 Horz(CT) -0.00 n/a **BCDL** 10.0 Code FBC2020/TPI2014 Weight: 93 lb FT = 20% Matrix-S

LUMBER-

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

WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 17-5-14.

Max Horz 1=206(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 10=-150(LC 12), 12=-153(LC 12), 8=-142(LC 13) All reactions 250 lb or less at joint(s) 1, 7 except 9=412(LC 19), 10=406(LC 19), 12=400(LC 19), 8=388(LC 20)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 12-3-12, Exterior(2R) 12-3-12 to 15-3-12, Interior(1) 15-3-12 to 17-4-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1, 7, 9 except (jt=lb) 10=150, 12=153, 8=142.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



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



Job PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply Qty T23468905 2714379 V03 Valley 1 Job Reference (optional)

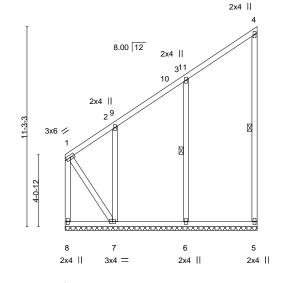
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:06 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-yLO83P61BRl3s3XeEpPqOLiAV0YXdd4a4sj7FxzTUvZ

10-9-10 10-9-10

Scale = 1:64.8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ii	( /	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.18	Vert(LL) n/a	٠ -	n/a	999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.20	Vert(CT) n/a	- ۱	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) -0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 83 lb FT = 20%

LUMBER-TOP CHORD

2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-5, 3-6

REACTIONS. All bearings 10-9-10.

Max Horz 8=209(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5 except 8=-132(LC 10), 6=-108(LC 12), 7=-431(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5 except 8=407(LC 12), 6=477(LC 19), 7=453(LC 19)

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

TOP CHORD 1-8=-470/215, 1-2=-267/143 3-6=-254/195, 1-7=-211/422 **WEBS** 

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 10-7-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=132, 6=108, 7=431.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468906 2714379 V04 Valley Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:07 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-QXyWGI7fyltwUD6qoWx3wYFLFQumM2?jJWTgoNzTUvY 10-9-10 10-9-10 PROFITE STATE OF STAT Scale = 1:54.7 2x4 || 8.00 12 2x4 || 311 10 2x4 || 2 9 X 3x6 2-4-12 Joaquin Velez PE No.68182 8 7 6 5 MiTek USA, Inc. FL Cert 6634 2x4 || 3x4 = 2x4 || 2x4 || 6904 Parke East Blvd. Tampa FL 33610

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	ix-S						Weight: 71 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

**BOT CHORD** WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt WEBS 4-5

REACTIONS. All bearings 10-9-10.

Max Horz 8=209(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 6=-108(LC 12), 7=-302(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 5 except 8=277(LC 12), 6=476(LC 19), 7=413(LC 19)

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

TOP CHORD 1-8=-319/141, 1-2=-267/142 **WEBS** 3-6=-253/194, 1-7=-157/310

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 10-7-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 6=108, 7=302.

Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468907 2714379 V05 Valley Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:08 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-vjWuT58lj3?n6Mh0MESITmnW7qFX5XjsXACEKpzTUvX 11-10-12 11-10-12 Scale = 1:45.0 2x4 JOAQUIN 2x4 || 8.00 12 10 X 2x4 || 8 ····· Joaquin Velez PE No.68182 3x6 // 6 MiTek USA, Inc. FL Cert 6634 2x4 || 2x4 || 2x4 || 6904 Parke East Blvd. Tampa FL 33610 LOADING (psf) SPACING-CSI DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI L/d Plate Grip DOL 244/190 **TCLL** 20.0 1.25 TC 0.17 Vert(LL) n/a n/a 999 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.16 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a **BCDL** 10.0 Code FBC2020/TPI2014 Weight: 59 lb FT = 20% Matrix-S

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

**BOT CHORD** WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-5

REACTIONS. All bearings 11-10-6.

Max Horz 1=219(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-141(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=432(LC 19), 7=370(LC 19)

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

TOP CHORD 1-2=-267/143

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-9-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=141.

Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468908 2714379 V06 Valley Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:09 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-Nw4HhR9wUM7djWGCwxzX?zKfNEawq\_c0mqynsFzTUvW 9-4-12

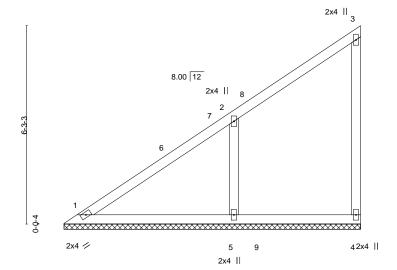
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

9-4-12





LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.26	<b>DEFL.</b> ir Vert(LL) n/a	( /	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT) n/a		n/a	999	WITZU	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.07 Matrix-S	Horz(CT) 0.00	4	n/a	n/a	Weight: 43 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

**BOT CHORD** WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

REACTIONS.

(size) 1=9-4-6, 4=9-4-6, 5=9-4-6

Max Horz 1=179(LC 12)

Max Uplift 4=-27(LC 14), 5=-170(LC 12)

Max Grav 1=162(LC 20), 4=148(LC 19), 5=527(LC 19)

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

**WEBS** 2-5=-308/237

### NOTES-

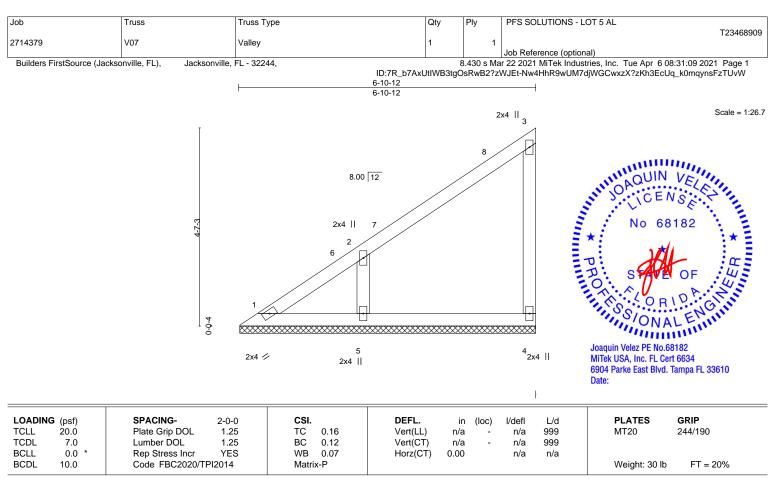
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=170.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021





LUMBER-

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 

REACTIONS.

(size) 1=6-10-6, 4=6-10-6, 5=6-10-6

Max Horz 1=139(LC 12)

Max Uplift 1=-2(LC 10), 4=-46(LC 12), 5=-142(LC 12) Max Grav 1=71(LC 21), 4=121(LC 19), 5=316(LC 19)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-9-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=142.

Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468910 2714379 V08 Valley Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:10 2021 Page 1  $ID: 7R\_b7AxUtIWB3tgOsRwB2?zWJEt-r6dfun9YFgFULgrPTfUmYBtrldwwZS09?UhLOizTUvV\\$ 

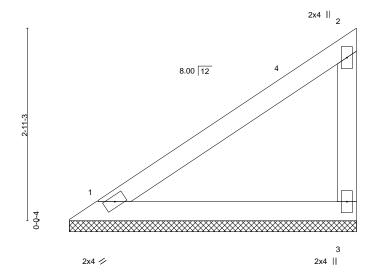
Structural wood sheathing directly applied or 4-4-12 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

4-4-12

Scale = 1:17.5



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2	2014	Matri	x-P						Weight: 17 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

2x4 SP No.2 **BOT CHORD** WFBS 2x4 SP No.3

(size) 1=4-4-6, 3=4-4-6 Max Horz 1=86(LC 12)

Max Uplift 1=-9(LC 12), 3=-67(LC 12)

Max Grav 1=139(LC 1), 3=146(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-3-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021



Job Qty PFS SOLUTIONS - LOT 5 AL Truss Truss Type Ply T23468911 2714379 V09 Valley Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Apr 6 08:31:11 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-JIB167AA0\_NLzqQb1M??5OP\_\_1F0IvGJE8Rux8zTUvU

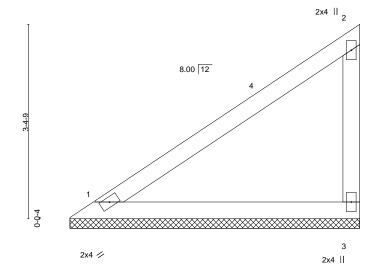
Structural wood sheathing directly applied or 5-0-14 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

5-0-14 5-0-14

Scale = 1:20.0



LOADING	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.25	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL 1	.25	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	'ES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	14	Matri	x-P						Weight: 20 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-**BOT CHORD** 

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

WFBS 2x4 SP No.3

REACTIONS. (size) 1=5-0-8, 3=5-0-8 Max Horz 1=102(LC 12)

Max Uplift 1=-10(LC 12), 3=-78(LC 12)

Max Grav 1=164(LC 1), 3=172(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-11-2 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 7,2021

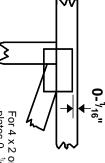


## Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-  $\frac{1}{16}$ " from outside edge of truss.

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

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 × 4

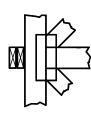
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

# LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

### **BEARING**



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

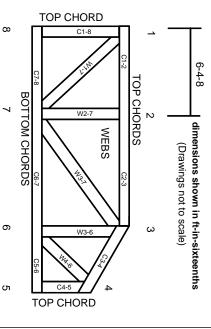
Min size shown is for crushing only

## Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

# **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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

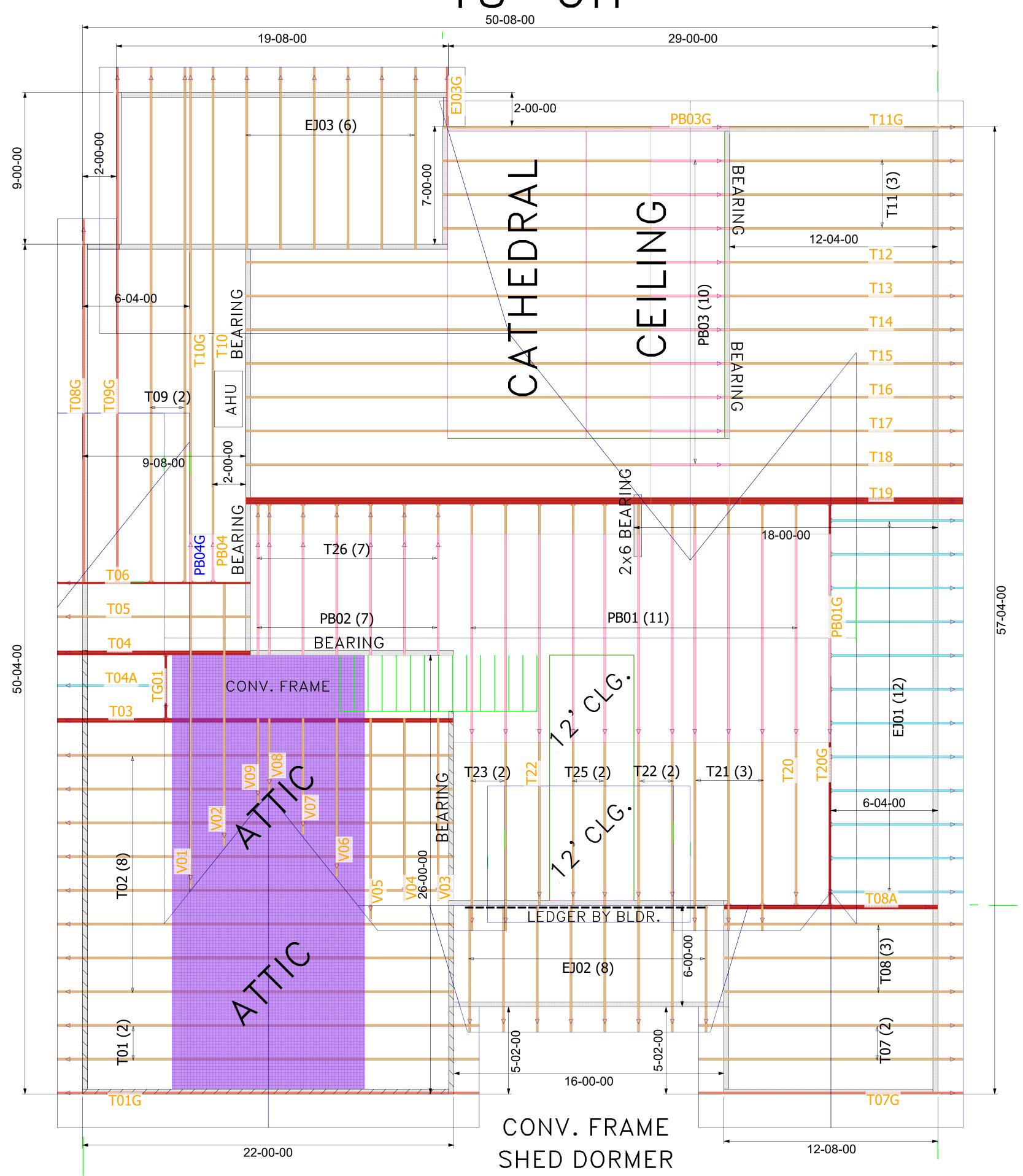
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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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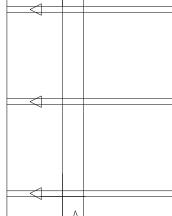
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.

## 3/12 - 8/12 - 10/12 PITCH 18" OH



Hatch Legend
8' 1-1/8"
9' 1-1/8"

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Cruss Manufacturer.

- Use Manufacturer's specifications for all hanger connections unless noted otherwise.

Trusses are to be 24" o.c. U.N.O.All hangers are to be Simpson or equivalent U.N.O.

Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.

Trusses are not designed to support brick U.N.O.Dimensions are Feet-Inches Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the

structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

Tallahassee PHONE: 850-576-5177

Builder: PFS SOLUTIONS

Legal Address

Lot 5 Amelia Landing

Model: 1775
Date:

Date: Drawn By: KLH

21 KLH 2714379

# Floor 2 Job#: Roof Job #: 2714379

Original Ref#:

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2

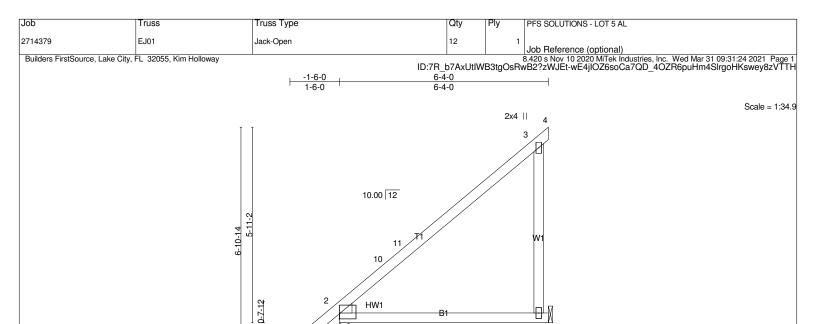


Plate Offsets	(X,X)	[2:Edge,0-2-2]

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.53	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) 0.10 6-9 >708 240	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(CT) -0.13 6-9 >563 180	141120 211/100
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.09 Matrix-MP	Horz(CT) 0.02 2 n/a n/a	Weight: 33 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

**BRACING-**

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

6 5

2x4 ||

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. (lb/size) 2=314/0-3-8, 6=224/Mechanical

Max Horz 2=215(LC 12)

Max Uplift2=-13(LC 12), 6=-141(LC 12)

Max Grav 2=314(LC 1), 6=247(LC 19)

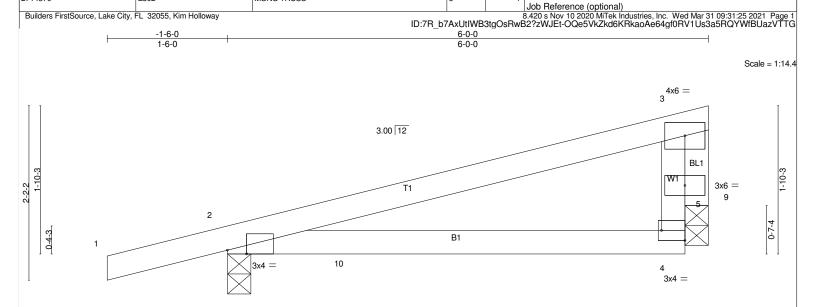
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5x6 =

- 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=141.



Qty

8

Ply

PFS SOLUTIONS - LOT 5 AL

Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-2-14,Edge], [4:Edge,0-1-8]											
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.37 BC 0.23 WB 0.26 Matrix-MR	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         0.04         4-8         >999         240           Vert(CT)         -0.04         4-8         >999         180           Horz(CT)         -0.00         2         n/a         n/a	PLATES GRIP MT20 244/190 Weight: 23 lb FT = 20%								

LUMBER-

Job

2714379

Truss

F.102

Truss Type

MONO TRUSS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD R

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=307/0-3-8, 9=185/0-3-8

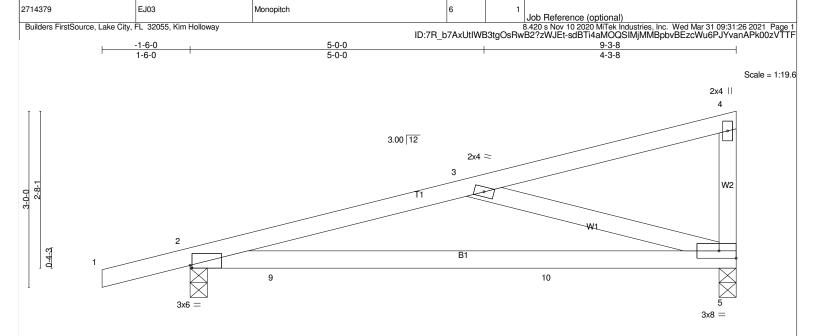
Max Horz 2=65(LC 8)

Max Uplift2=-164(LC 8), 9=-95(LC 8)

**FORCES.** (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. BOT CHORD 2-10=-257/194, 4-10=-257/194

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-6-12 zone; porch left and right exposed; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Bearing at joint(s) 9 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) 9 except (jt=lb) 2=164.



Qty

LOADING (psf) SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0 Plate Grip DOL	. 1.25	TC 0.58	Vert(LL)	0.22	5-8	>499	240	MT20	244/190
TCDL 7.0 Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.30	5-8	>371	180		
BCLL 0.0 * Rep Stress Inc	r YES	WB 0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0 Code FBC2020	)/TPI2014	Matrix-MS						Weight: 40 lb	FT = 20%

LUMBER-

Job

Truss

Truss Type

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

Plate Offsets (X,Y)-- [2:0-0-6,Edge]

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

end verticals

**BOT CHORD** 

Rigid ceiling directly applied or 6-4-11 oc bracing.

PFS SOLUTIONS - LOT 5 AL

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=426/0-3-8, 5=332/0-3-8

Max Horz 2=96(LC 8)

Max Uplift2=-217(LC 8), 5=-172(LC 8)

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

TOP CHORD 2-3=-648/540

BOT CHORD 2-9=-621/625, 9-10=-621/625, 5-10=-621/625

WFBS 3-5=-605/586

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-1-12 zone; porch left and right exposed; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=217, 5 = 172.

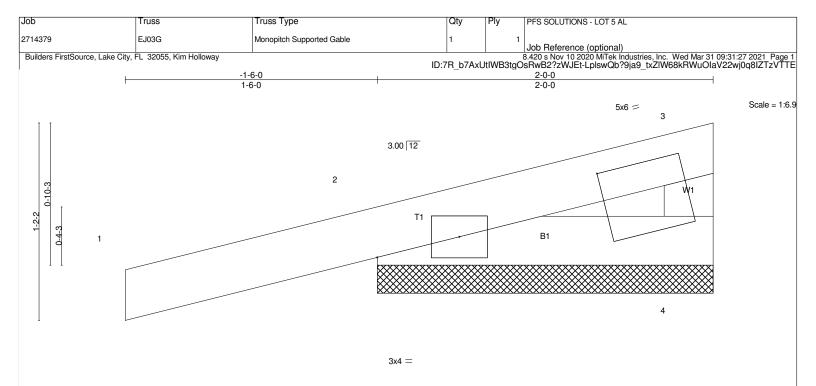


Plate Offsets	Plate Offsets (X,Y) [3:1-4-11,0-2-0]												
LOADING (psi TCLL 20.0 TCDL 7.0	ı	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.19 0.04	<b>DEFL.</b> Vert(LL) Vert(CT)	in 0.00 -0.00	(loc) 1 1	l/defl n/r n/r	L/d 120 120		PLATES MT20	<b>GRIP</b> 244/190

**BCLL** 0.0 \* Rep Stress Incr YES WB 0.00 Horz(CT) n/a n/a BCDL Code FBC2020/TPI2014 Weight: 9 lb FT = 20% Matrix-P

LUMBER-

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

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except

end verticals

**BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=36/2-0-0, 2=182/2-0-0

Max Horz 2=33(LC 8)

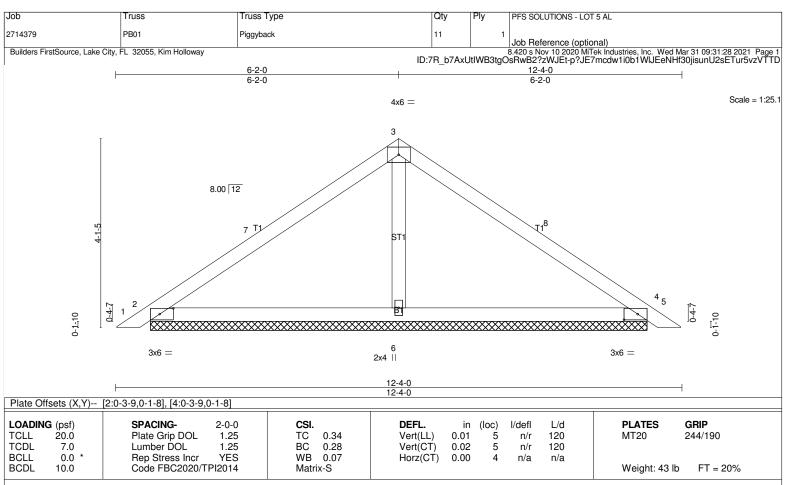
Max Uplift4=-7(LC 12), 2=-96(LC 8) Max Grav 4=42(LC 3), 2=182(LC 1)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 1-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.

  8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



LUMBER-

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=222/10-9-12, 4=222/10-9-12, 6=408/10-9-12

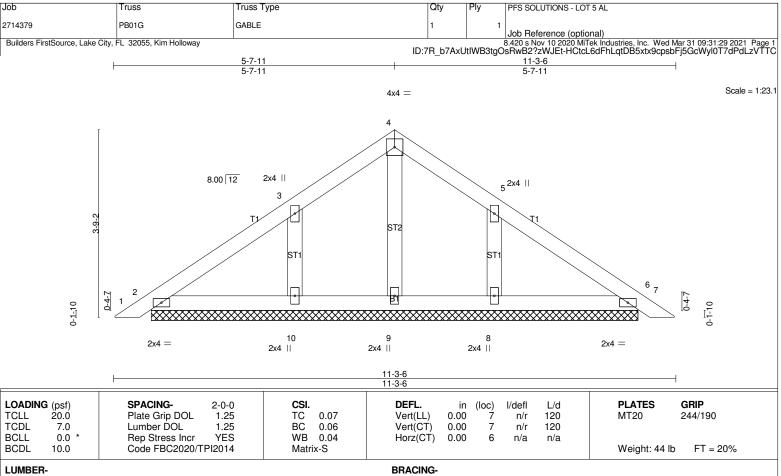
Max Horz 2=-86(LC 10)

Max Uplift2=-62(LC 12), 4=-73(LC 13), 6=-55(LC 12)

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

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 12-0-11 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) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-9-2.

(lb) - Max Horz 2=-79(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-108(LC 12), 8=-108(LC 13)

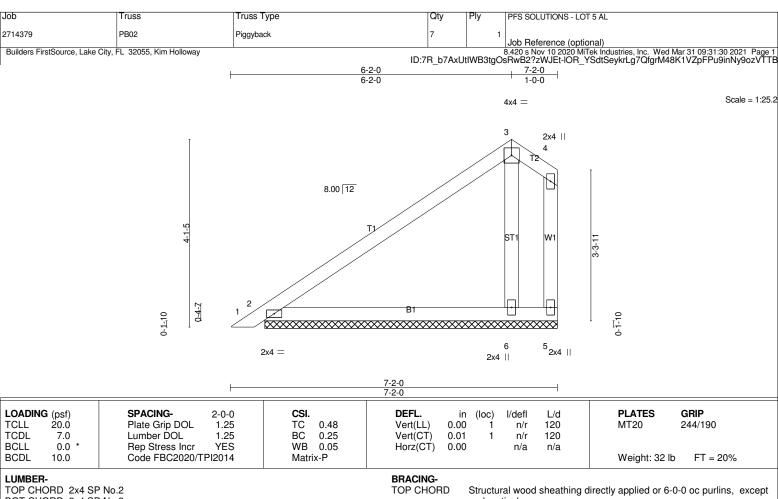
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-7-11, Exterior(2R) 5-7-11 to 8-7-11, Interior(1) 8-7-11 to 11-0-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

  9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=108, 8=108,
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

2x4 SP No.3 **OTHERS** 

end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=-42/6-4-14, 2=215/6-4-14, 6=316/6-4-14

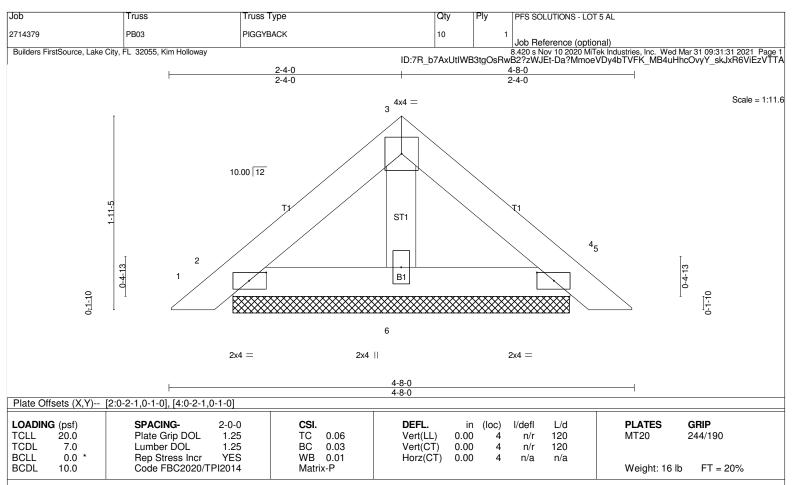
Max Horz 2=123(LC 12)

Max Uplift5=-125(LC 3), 2=-33(LC 12), 6=-61(LC 12)

Max Grav 2=215(LC 1), 6=340(LC 3)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-2-0, Exterior(2E) 6-2-0 to 7-0-4 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) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 5 = 125
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



LUMBER-

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

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=95/3-4-8, 4=95/3-4-8, 6=104/3-4-8

Max Horz 2=-38(LC 10)

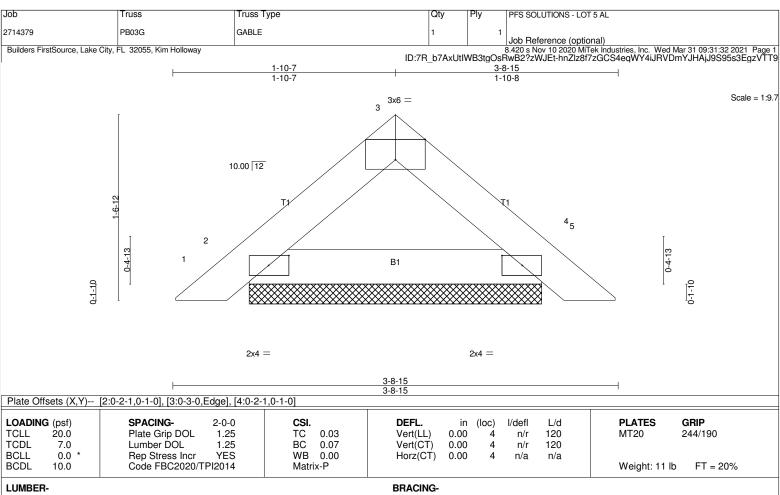
Max Uplift2=-30(LC 12), 4=-35(LC 13), 6=-3(LC 12)

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

### 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=20ft; 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
  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) 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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) Non Standard bearing condition. Review required.

  9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-8-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=113/2-5-8, 4=113/2-5-8

Max Horz 2=-30(LC 10)

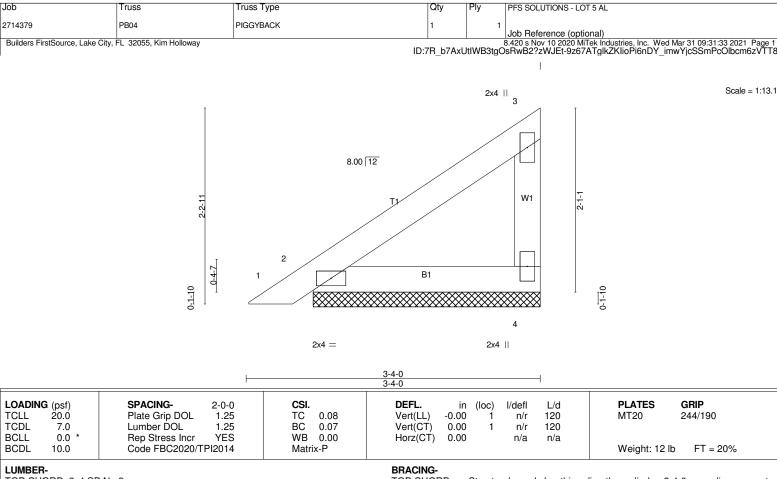
Max Uplift2=-26(LC 12), 4=-26(LC 13)

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

## 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=20ft; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

  9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except

end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=87/2-6-14, 2=118/2-6-14

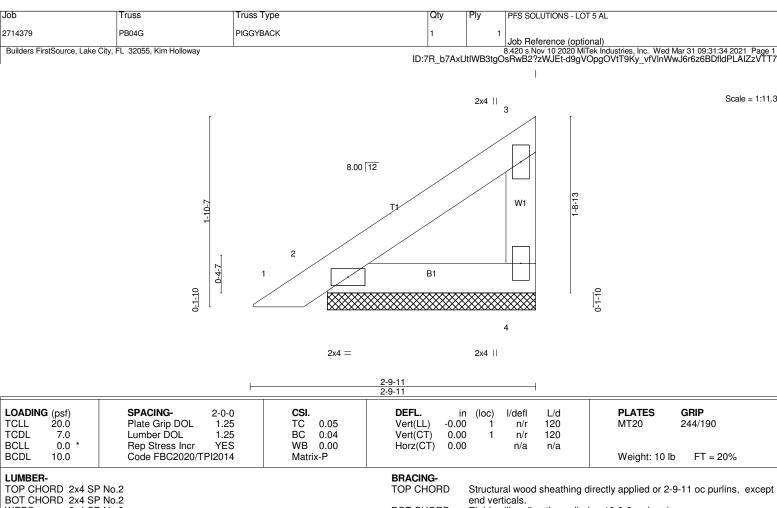
Max Horz 2=65(LC 12)

Max Uplift4=-43(LC 12), 2=-16(LC 12) Max Grav 4=92(LC 19), 2=118(LC 1)

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=20ft; 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
   Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to
- 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WFBS 2x4 SP No.3

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=67/2-0-9, 2=100/2-0-9

Max Horz 2=53(LC 12)

Max Uplift4=-33(LC 12), 2=-15(LC 12) Max Grav 4=71(LC 19), 2=100(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL 2714379 T01 Attic 2 Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:35 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-6LEtb9h0GBb0x6Y5DCG037r9OWClwZ8ur34jr?zVTT6 7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 13-9-11 14-5-6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 3-7-0 Scale: 3/16"=1 5x6 = 7 10.00 12 2x4 = W 2x4 = 17 3x10 || 3x10 || 2x4 || 10-9-12 7x8 // 11-0-3 7x8 × 10 7-1-2 4x4 // 4x4 💉 11-5-0 1-8-3 B2 · 15 16 14 6x8 = 7x14 MT20HS || 8x10 = 8x10 = 7x14 MT20HS II 5-1-4 11-8-8 5-1-4 Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-3-8,0-5-12], [16:0-3-8,0-5-12]

DEFL.

Attic

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

**JOINTS** 

TOP CHORD

**BOT CHORD** 

in (loc)

-0.27 14-16

-0.44 14-16

-0.18 14-16

0.02

I/defl

>977

>600

n/a

785

1 Brace at Jt(s): 17

Installation guide.

I/d

240

180

n/a

**PLATES** 

MT20HS

Weight: 195 lb

MT20

Structural wood sheathing directly applied or 4-9-2 oc purlins.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 10-0-0 oc bracing.

GRIP

244/190

187/143

FT = 20%

BCLL BCDL

**TCLL** 

TCDL

LOADING (psf)

20.0

7.0

0.0

**LUMBER-**TOP CHORD 2x6 SP M 26 \*Except\*

T1: 2x6 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E -p 1-11-8, Right 2x8 SP 2400F 2.0E -p 1-11-8

**REACTIONS.** (lb/size) 2=1123/0-3-0, 12=1123/0-3-0

Max Horz 2=-229(LC 10)

Max Uplift2=-18(LC 12), 12=-18(LC 13) Max Grav 2=1376(LC 20), 12=1376(LC 21)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 3-4=-1680/0, 4-5=-1625/2, 5-6=-1022/103, 8-9=-1021/103, 9-10=-1624/1, 10-11=-1680/0

2-0-0

1.25

1.25

YES

BOT CHORD 2-16=-6/1205, 15-16=0/1105, 14-15=0/1105, 12-14=0/1131

WEBS 6-17=-1217/65, 8-17=-1217/65, 9-14=0/1043, 10-14=-256/176, 5-16=0/1043, 4-16=-255/175

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 14-1-9, Interior(1) 14-1-9 to 23-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB

Matrix-MS

0.57

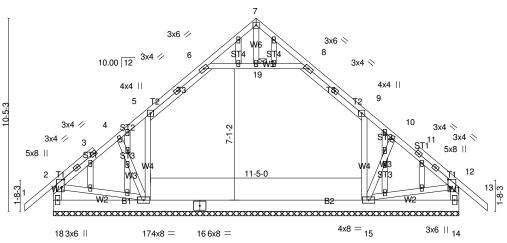
0.46

0.50

- 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- s) \* 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) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).9-14, 5-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 11) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty PFS SOLUTIONS - LOT 5 AL 2714379 T01G GABLE Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:37 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-2kMe0rjGoorkBQiULdIV8YwaeKzDOZVBJNZqvuzVTT4 13-7-5 14-5-6 16-9-12 18-4-0 2-7-13 0-10-1 2-4-6 1-6-4 21-11-0 2-4-6 0-10-1 2-7-13 3-7-0

> Scale = 1:62.3 4x4 =



5-1-4 11-8-8 5-1-4

Plate Offsets	(X,Y)		[2:0-5-0,0-1-8]	١,	[12:0-5-0,0-1-8]
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LOADI	ING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) -0.01 13 n/r 120	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.14	Vert(CT) -0.02 13 n/r 120	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 14 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 209 lb FT = 20%

LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 \*Except\* **WEBS** 

W1: 2x6 SP No.2

**OTHERS** 2x4 SP No.3

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

end verticals

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

JOINTS 1 Brace at Jt(s): 19

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. All bearings 21-11-0.

(lb) - Max Horz 18=-259(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 18, 14 except 15=-129(LC 13), 17=-130(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 18=577(LC 1), 15=791(LC 21), 17=792(LC 20), 14=577(LC 1)

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

TOP CHORD 2-3=-520/65, 3-4=-462/80, 4-5=-454/112, 5-6=-493/126, 8-9=-493/126, 9-10=-453/111,

10-11=-461/79, 11-12=-520/64, 2-18=-569/107, 12-14=-569/107

**BOT CHORD** 16-17=-31/371, 15-16=-31/37 **WEBS** 

9-15=-292/141, 5-17=-292/142, 2-17=-34/371, 12-15=-41/378

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 13-10-1, Interior(1) 13-10-1 to 23-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown:
- Lumber DOL=1.60 plate grip DOL=1.60

  3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19; Wall dead load (5.0 psf) on member(s).9-15, 5-17
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 14 except (jt=lb) 15=129, 17=130.
- 13) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL 2714379 T02 Attic 8 Job Reference (optional) 8.420 s Nov 10 2020 MTek Industries, Inc. Wed Mar 31 09:31:38 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-Www0EBjuZ6zboaHguKpkhmTgdkEU7wgLY1JNRKzVTT3 Builders FirstSource, Lake City, FL 32055, Kim Holloway 10-11-8 7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 13-9-11 14-5-6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 Scale: 3/16"=1 5x6 = 8 10.00 12 2x4 = 2x4 = 17 3x10 || 3x10 || 2x4 || 10 6x8 // 10-9-12 11-0-3 2x4 // 5 11 4x4 // 4x4 < 12 ⊞ 15 16 14 6x8 = 7x14 MT20HS || 8x10 = 6x8 = 7x14 MT20HS II

5-1-4 5-1-4 Plate Offsets (X,Y)-- [5:0-4-0,0-4-4], [6:0-6-14,0-0-5], [14:0-3-8,0-4-8], [16:0-3-8,0-5-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) -0.27 14-16 >986 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.43 14-16 >607 180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.02 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.18 14-16 790 360	Weight: 191 lb FT = 20%

16-9-12

11-8-8

**BRACING-**

**JOINTS** 

TOP CHORD

**BOT CHORD** 

5-1-4

Structural wood sheathing directly applied or 4-8-15 oc purlins.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): 17

Installation guide.

LUMBER-

TOP CHORD 2x6 SP M 26 \*Except\*

T1: 2x6 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

**WEBS** 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E -p 1-11-8, Right 2x8 SP 2400F 2.0E -p 1-11-8

REACTIONS. (lb/size) 13=1037/0-3-0, 2=1126/0-3-0

Max Horz 2=220(LC 11) Max Uplift2=-18(LC 12)

Max Grav 13=1297(LC 21), 2=1378(LC 20)

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

TOP CHORD 3-4=-1688/0, 4-5=-1638/0, 5-6=-1602/2, 6-7=-1027/103, 9-10=-1023/103, 10-11=-1647/0,

11-12=-1698/0 BOT CHORD

2-16=-22/1197, 15-16=0/1095, 14-15=0/1095, 13-14=0/1126

7-17=-1222/67, 9-17=-1222/67, 10-14=0/1073, 11-14=-286/186, 6-16=0/1060, **WEBS** 

4-16=-274/176

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 14-1-9, Interior(1) 14-1-9 to 21-11-0 zone; end vertical left and right 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) All plates are MT20 plates unless otherwise indicated.
- 5) 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.
- 7) Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-17, 9-17; Wall dead load (5.0psf) on member(s).10-14, 6-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL 2714379 T03 ATTIC GIRDER Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:40 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-SJ2metl85jDJ2tR20lrCmBY1OXxAbsBd?LoUWCzVTT1 7-5-10 8-1-5 10-11-8 2-4-6 0-7-11 2-10-3 13-9-11 14-5<sub>7</sub>6 16-9-12 18-4-0 2-10-3 0-7-11 2-4-6 1-6-4 21-11-0 Scale: 3/16"=1 5x6 = 7 10.00 12 2x4 = 2x4 = 16 2x4 || 2x4 || 2x4 || 9 10-9-12 7x8 // 11-0-3 2x4 // 10 7-1-2 5x6 // 5x6 <> 11-5-0 B2 ⊞

Plate Offsets	(X.Y)	[4:0-4-0.0-4-8]

LOADING (psf)	SPACING- 3-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) -0.20 13-15 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.33 13-15 >790 180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.38	Horz(CT) 0.01 12 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.13 13-15 1047 360	Weight: 381 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

JOINTS

13

5-10-4

4x6 =

2-0-0 oc purlins (6-0-0 max.)

1 Brace at Jt(s): 7, 16

(Switched from sheeted: Spacing > 2-0-0).

Rigid ceiling directly applied or 10-0-0 oc bracing.

7x14 MT20HS ||

14

6x8 =

5-10-4

15

4x6 =

LUMBER-

TOP CHORD 2x6 SP M 26 \*Except\*

T1: 2x6 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

**WEBS** 2v4 SP No 3

**SLIDER** Left 2x8 SP 2400F 2.0E -p 1-11-8, Right 2x8 SP 2400F 2.0E -p 1-11-8

7x14 MT20HS II

REACTIONS. (lb/size) 12=1587/0-3-0, 2=1792/0-3-0

Max Horz 2=330(LC 5)

Max Uplift12=-1(LC 9), 2=-105(LC 8) Max Grav 12=1970(LC 35), 2=2149(LC 34)

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

3-4=-2597/59, 4-5=-2514/88, 5-6=-1565/179, 6-7=-124/289, 7-8=-132/288, 8-9=-1569/188, TOP CHORD

9-10=-2503/46, 10-11=-2593/35

**BOT CHORD** 2-15=-90/1829, 14-15=0/1680, 13-14=0/1680, 12-13=0/1711

6-16=-1888/145, 8-16=-1888/145, 9-13=0/1600, 10-13=-413/294, 5-15=-17/1584, WEBS

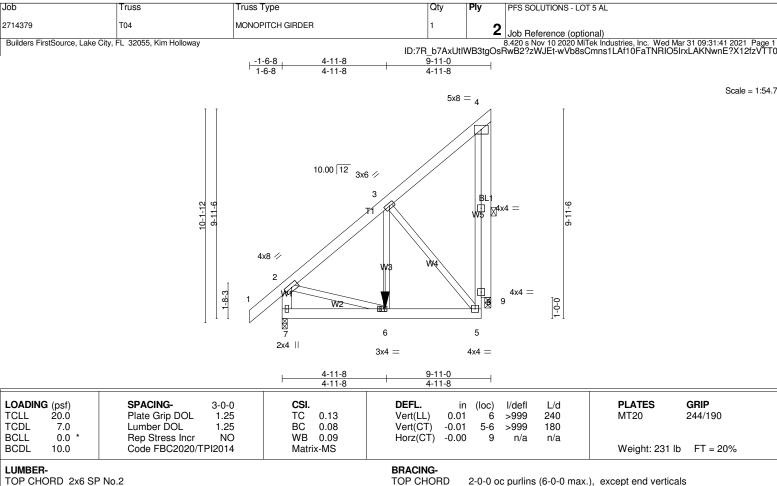
4-15=-378/301

## NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
  - Bottom chords connected as follows: 2x8 2 rows staggered at 0-9-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) 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.
- 9) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-16, 8-16; Wall dead load (5.0psf) on member(s).9-13, 5-15 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb)
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 123 lb up at 4-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

lob	Truss	Truss Type	17	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T03	ATTIC GIRDER				
	City, FL 32055, Kim Holloway	ATTIO GITTELL	'		2	Job Reference (optional) 3.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:40 2021 Page 2 wB2?zWJEt-SJ2metl85jDJ2tR20lrCmBY1OXxAbsBd?LoUWCzVTT1
NOTES- 15) Attic room checked			ID:7R_I	7AxUtIV	VB3tgOsF	wB2?zWJEt-SJ2metl85jDJ2tR20lrCmBY1OXxAbsBd?LoUWCzVTT1
Uniform Loads (plf) Vert: 1-5=-8	palanced): Lumber Increas 11, 5-6=-96, 6-7=-81, 7-8= 15, 5-15=-15 10b	se=1.25, Plate Increase=1.25 -81, 8-9=-96, 9-12=-81, 15-21=-30	, 13-15=-60, 13-1	7=-30, 6	3-8=-15	



**BOT CHORD** 

WFBS

(Switched from sheeted: Spacing > 2-0-0).

1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing.

4-9

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 \*Except\*

W1: 2x6 SP No.2 OTHERS 2x6 SP No.2

**REACTIONS.** (lb/size) 7=754/0-3-0, 9=534/0-3-8

Max Horz 7=432(LC 8)

Max Uplift7=-45(LC 8), 9=-390(LC 8) Max Grav 7=754(LC 1), 9=578(LC 29)

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

TOP CHORD 2-3=-543/13, 5-8=-276/443, 4-8=-276/443, 2-7=-683/63

BOT CHORD 6-7=-436/216, 5-6=-260/350

WEBS 3-6=-102/324, 3-5=-493/369, 2-6=-44/331, 4-9=-579/391

## NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Bearing at joint(s) 9 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) 7 except (jt=lb) 9=390.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 127 lb up at 4-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

## LOAD CASE(S) Standard

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

Continued on page 2

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Builders FirstSource, Lake City, FL 32055, Kim Holloway  Builders FirstSource, Lake City, FL 32055, Kim Holloway  ID:7R_b7AxUtIWB3tgOsRwB2?zWJEt-wVb8sCmns1LAf10FaTNRIO5IrxL  LOAD CASE(S) Standard  Uniform Loads (plf)  Vert: 1-2=81, 2-4=-81, 5-7=-30	
LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-2=-81 2-4=-81 5-7=-30	31 09:31:41 2021 Page 2
Concentrated Loads (lb)  Vert: 6=-137(F)	LAKNwnE?X12fzVTT0

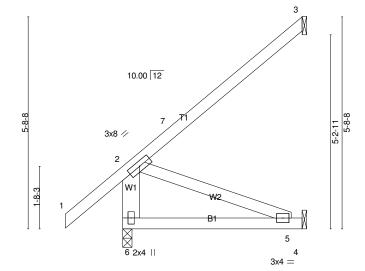
Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T04A	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:42 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-Oi9W3YnPdKT1HBbR7AugrceO5Lfg3p5wSfHba5zVTT?

-1-6-8 1-6-8 4-10-0

Scale = 1:31.0



LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	Vert(LL) -0.03 5-6 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.05 5-6 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.01 3 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 30 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x6 SP No.2 \*Except\* WFBS

W2: 2x4 SP No.3

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=282/0-3-0, 3=104/Mechanical, 4=45/Mechanical

Max Horz 6=156(LC 12) Max Uplift3=-99(LC 12), 4=-42(LC 12)

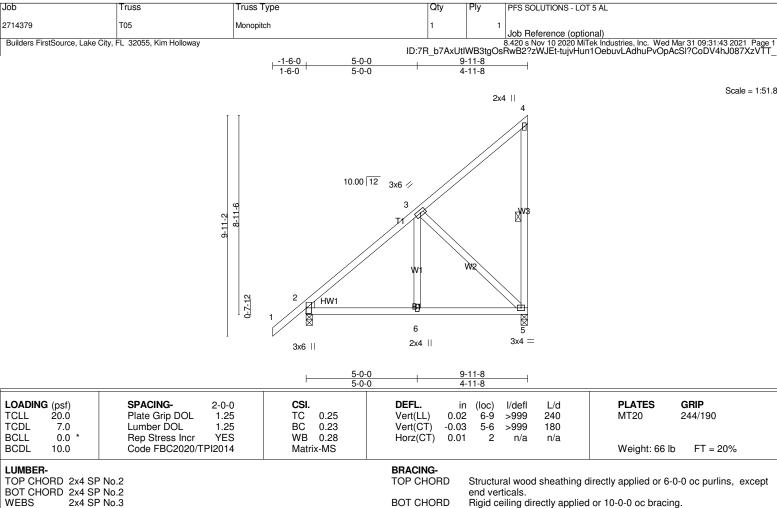
Max Grav 6=282(LC 1), 3=117(LC 19), 4=91(LC 3)

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

BOT CHORD 5-6=-311/139 **WEBS** 2-5=-148/330

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 4-9-4 zone; end vertical left exposed; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.



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

WFDGF

Left: 2x4 SP No.3

**BOT CHORD** 

WFBS

Rigid ceiling directly applied or 10-0-0 oc bracing.

4-5 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=450/0-3-8, 5=357/0-3-8

Max Horz 2=318(LC 12)

Max Uplift2=-7(LC 12), 5=-221(LC 12) Max Grav 2=450(LC 1), 5=388(LC 19)

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

TOP CHORD 2-3=-372/0

BOT CHORD 2-6=-186/257, 5-6=-186/257

3-5=-346/250 WEBS

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-9-12 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=221.

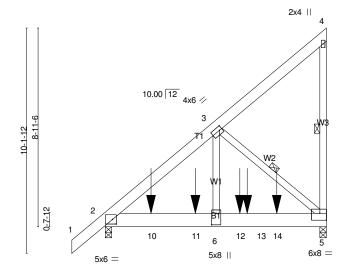
Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL 2714379 T06 Monopitch Girder Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:44 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-L4HHUEof9yjlWVkqFbw8w1joD8JDXVuDwzmhe\_zVTSz

-1-6-0 5-0-0 1-6-0 5-0-0 4-11-8

Scale = 1:51.9



5-0-0 4-11-8

Plate Offsets (X,Y)-- [2:0-2-0,0-2-8], [3:0-1-8,0-2-0], [5:Edge,0-3-12], [6:0-6-4,0-2-8]

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 0.18	Vert(LL) -0.04 5-6 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.07 5-6 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.98	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	, ,	Weight: 92 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E WFBS 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 4-9-7 oc purlins, except

end verticals

**BOT CHORD** WFBS

Rigid ceiling directly applied or 10-0-0 oc bracing.

4-5, 3-5 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1997/0-3-8, 5=2153/0-3-8

Max Horz 2=318(LC 8)

Max Uplift2=-413(LC 8), 5=-741(LC 8)

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

TOP CHORD 2-3=-2228/464

**BOT CHORD** 2-10=-543/1688, 10-11=-543/1688, 6-11=-543/1688, 6-12=-543/1688, 12-13=-543/1688,

> 13-14=-543/1688, 5-14=-543/1688 3-6=-652/2561, 3-5=-2235/718

# WEBS NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=413, 5=741.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 656 lb down and 163 lb up at 2-0-12 , 677 lb down and 164 lb up at 4-0-12, 677 lb down and 164 lb up at 6-0-12, and 733 lb down and 256 lb up at 6-4-12, and 741 lb down and 249 lb up at 7-8-12 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).

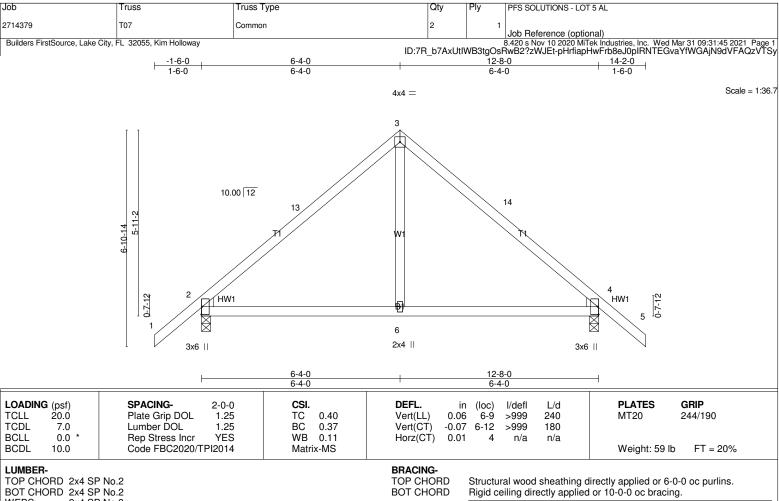
## LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-54, 5-7=-20

Concentrated Loads (lb)

Vert: 10=-656(B) 11=-677(B) 12=-677(B) 13=-664(B) 14=-669(B)



**BOT CHORD** 

Installation guide.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

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

WFDGF

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=550/0-3-8, 4=550/0-3-8

Max Horz 2=144(LC 11)

Max Uplift2=-118(LC 12), 4=-118(LC 13)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-13=-488/146, 3-13=-383/162, 3-14=-383/162, 4-14=-488/146

BOT CHORD 2-6=-12/316, 4-6=-12/316

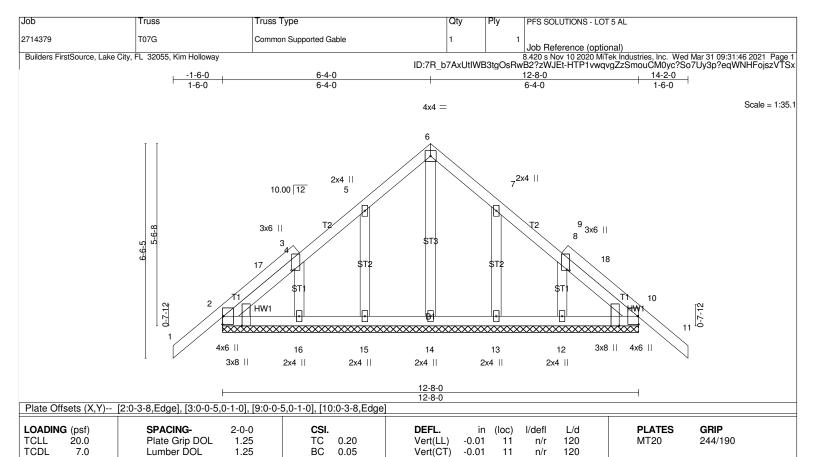
WFBS 3-6=-14/281

# 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 14-2-0 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) 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.

  6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 4=118.



Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.00

10

n/a

Installation guide.

n/a

Weight: 81 lb

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

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

FT = 20%

LUMBER-

**BCLL** 

BCDL

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

0.0

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**REACTIONS.** All bearings 12-8-0.

(lb) - Max Horz 2=-135(LC 10)

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

YES

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

## NOTES-

1) Unbalanced roof live loads have been considered for this design.

Rep Stress Incr

Code FBC2020/TPI2014

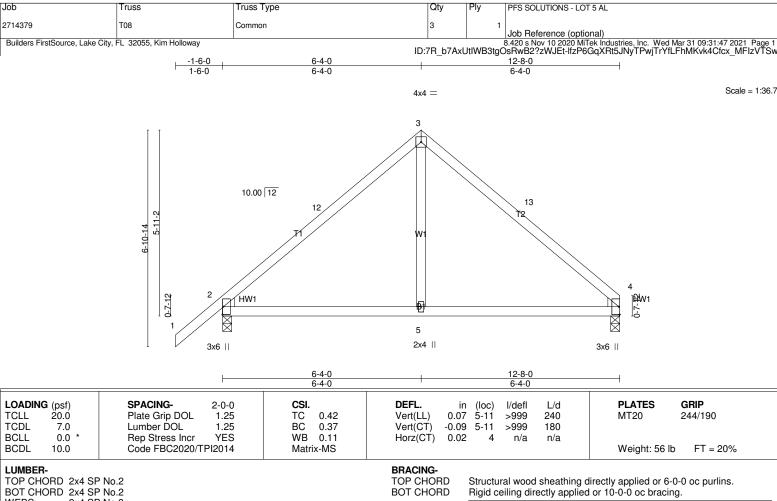
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0,

WB

Matrix-S

0.05

- Exterior(2N) 9-4-0 to 14-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) 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.



**BOT CHORD** 

Installation guide.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

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

WFDGF

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=554/0-3-8, 4=464/0-3-8

Max Horz 2=134(LC 11)

Max Uplift2=-119(LC 12), 4=-84(LC 13)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-12=-498/151, 3-12=-393/167, 3-13=-393/170, 4-13=-495/154

BOT CHORD 2-5=-32/307, 4-5=-32/307

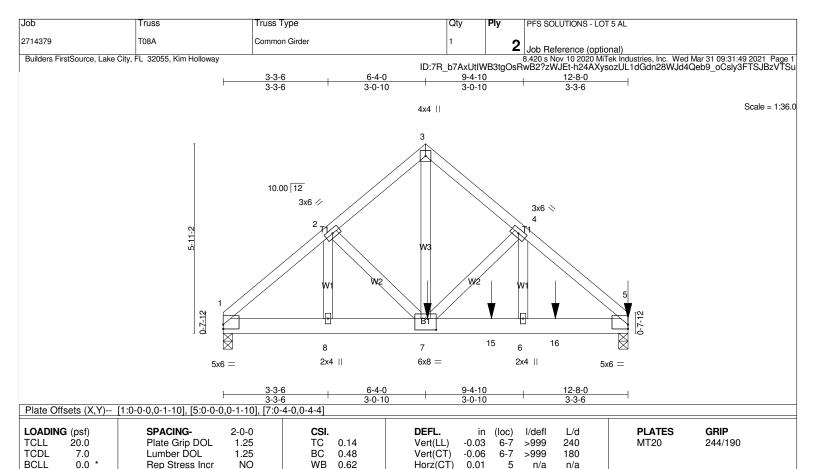
WFBS 3-5=-23/283

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 12-8-0 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) 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.

  6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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=119.



BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

10.0

## **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.

Weight: 163 lb

FT = 20%

**REACTIONS.** (lb/size) 1=1983/0-3-8, 5=3780/0-3-8

Max Horz 1=116(LC 5)

Max Uplift1=-701(LC 8), 5=-1056(LC 9) Max Grav 1=1983(LC 1), 5=3972(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2676/973, 2-3=-2686/1051, 3-4=-2686/1051, 4-5=-3858/1179

Code FBC2020/TPI2014

BOT CHORD 1-8=-761/1995, 7-8=-761/1995, 7-15=-866/2918, 6-15=-866/2918, 6-16=-866/2918,

5-16=-866/2918

WEBS 3-7=-1260/3232, 4-7=-1220/271, 4-6=-207/1490

## NOTES-

- 1) 2-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.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) 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.

Matrix-MS

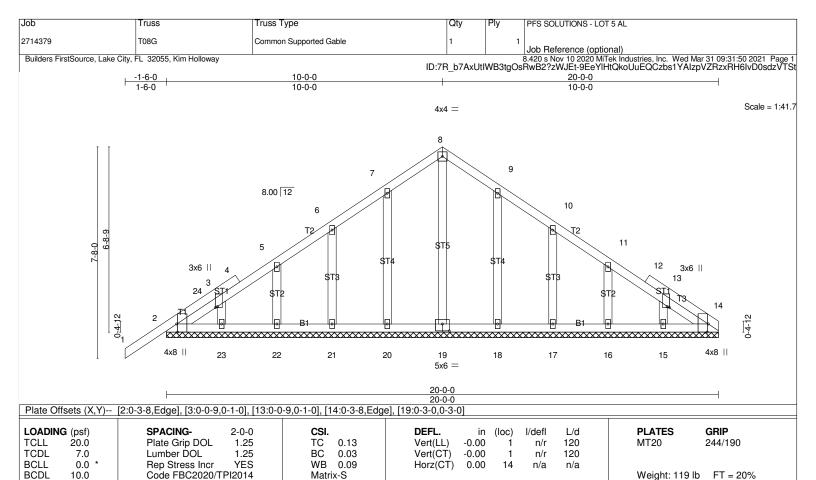
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=701, 5=1056.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2084 lb down and 1066 lb up at 6-4-12, 974 lb down and 167 lb up at 8-4-12, and 1051 lb down and 205 lb up at 10-4-12, and 1059 lb down and 198 lb up at 12-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

## LOAD CASE(S) Standard

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

Continued on page 2

Job	Truss	Truss Type		Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T08A	Common Girder		1	2	Joh Reference (ontional)
Builders FirstSource,	Lake City, FL 32055, Kim Holloway		ID-7R	h7Δ×I I+I\Λ/I	B3taOeB	3000 helerence (optional) 3.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:49 2021 Page 2 wB222W IEt-b244 Yveget II 14Cdb28W Id4Cob9, oCsb2ETS IB2VTSu
LOAD CASE(S) S Uniform Loads Vert: 1	Standard	7(F) 16=-943(B)	ID:7R_	b7AxUtiWl	B3tgOsAv	Job Reference (optional) 3.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:31:49 2021 Page 2 wB2?zWJEt-h24AXysozUL1dGdn28WJd4Qeb9_oCsly3FTSJBzVTSu



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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 20-0-0.

(lb) - Max Horz 2=154(LC 9)

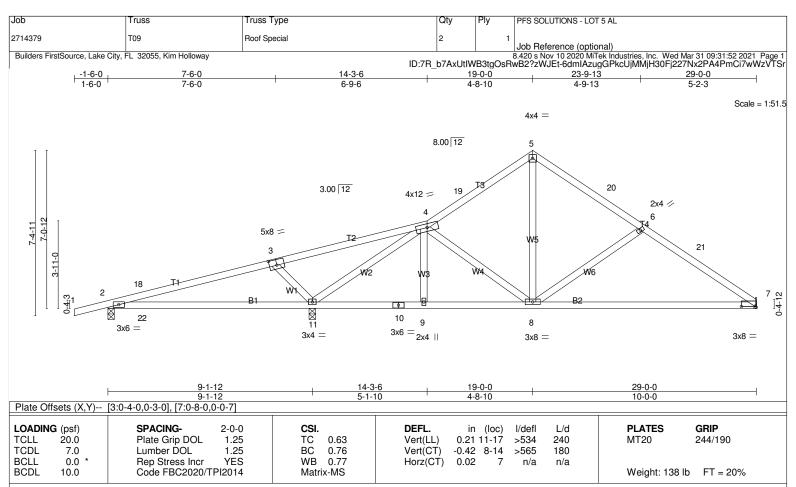
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) All bearings are assumed to be ŚP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 15.



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

## BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-11.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=697/Mechanical, 2=345/0-3-8, 11=1184/0-3-8

Max Horz 2=163(LC 9)

Max Uplift7=-144(LC 13), 2=-209(LC 8), 11=-285(LC 12) Max Grav 7=697(LC 1), 2=358(LC 23), 11=1184(LC 1)

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

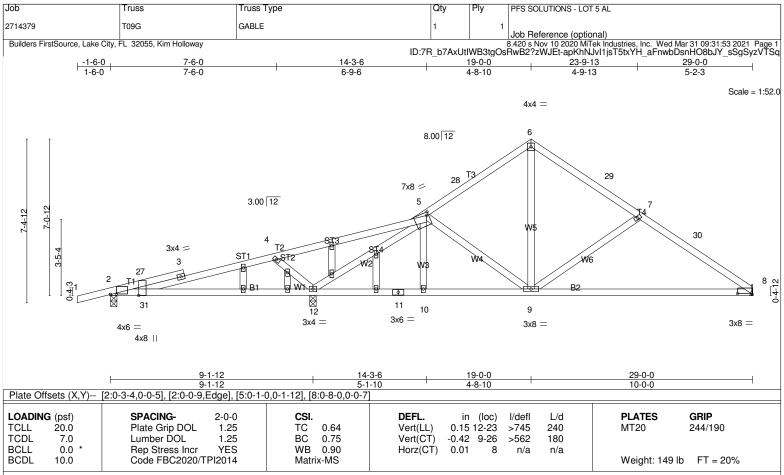
TOP CHORD 3-4=-95/270, 4-19=-692/230, 5-19=-620/244, 5-20=-621/246, 6-20=-707/225,

6-21=-876/289, 7-21=-941/277

BOT CHORD 10-11=-116/633, 9-10=-116/633, 8-9=-117/633, 7-8=-171/759 WEBS 3-11=-487/259, 4-11=-1053/243, 5-8=-122/485, 6-8=-318/198

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-0-0 zone; porch 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=144, 2=209, 11=285.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-7-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-12.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=300/0-3-8, 8=676/Mechanical, 12=1248/0-3-8

Max Horz 2=162(LC 11)

Max Uplift2=-187(LC 8), 8=-143(LC 13), 12=-295(LC 12) Max Grav 2=310(LC 23), 8=676(LC 1), 12=1248(LC 1)

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

TOP CHORD 4-5=-248/554. 5-28=-672/197. 6-28=-592/212. 6-29=-583/212. 7-29=-668/192.

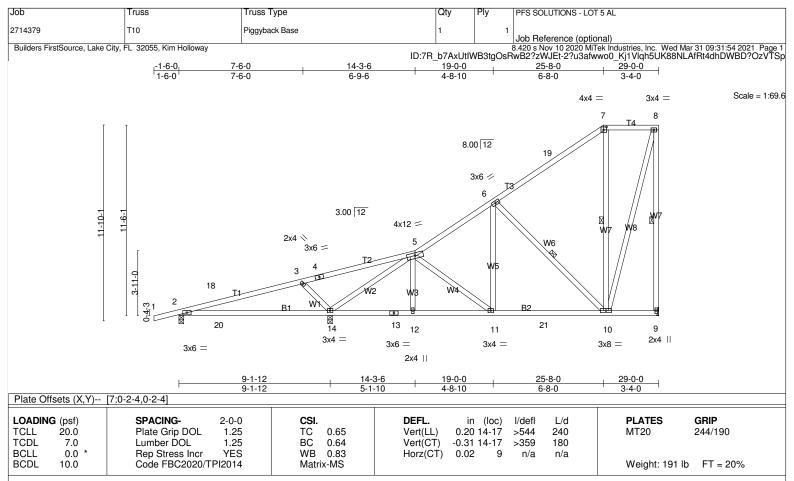
7-30=-837/255, 8-30=-902/243

**BOT CHORD** 11-12=-112/578, 10-11=-112/578, 9-10=-111/580, 8-9=-145/727 **WEBS** 4-12=-513/277, 5-12=-1295/388, 6-9=-103/456, 7-9=-318/198

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

  4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to
- the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 8=143, 12=295.



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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD WEBS Rigid ceiling directly applied or 9-10-2 oc bracing.

1 Row at midpt 8-9, 6-10, 7-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 9=689/Mechanical, 2=339/0-3-8, 14=1188/0-3-8

Max Horz 2=395(LC 12)

Max Uplift9=-229(LC 12), 2=-200(LC 8), 14=-281(LC 12)

Max Grav 9=779(LC 19), 2=340(LC 2), 14=1289(LC 2)

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

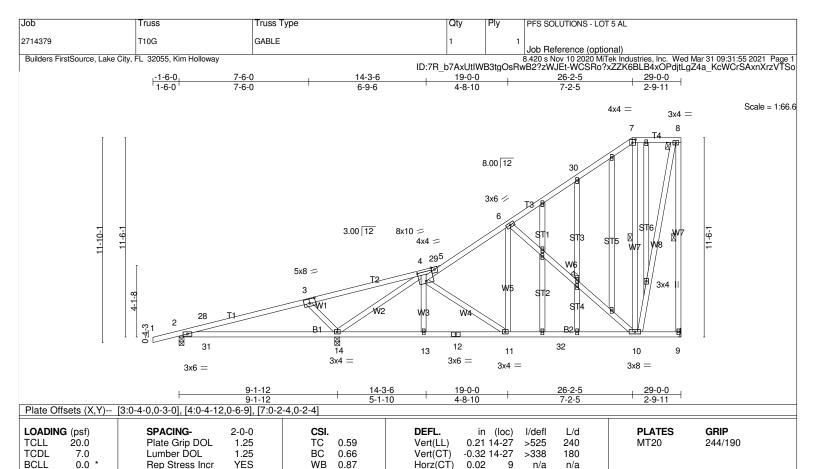
TOP CHORD 3-4=-255/231, 4-5=-247/309, 5-6=-738/10, 6-19=-318/0, 8-9=-761/279 BOT CHORD 2-20=-283/86, 14-20=-283/86, 13-14=-238/727, 12-13=-238/727, 11-12

2-20=-283/86, 14-20=-283/86, 13-14=-238/727, 12-13=-238/727, 11-12=-239/723, 11-21=-218/641, 10-21=-218/641

WEBS 3-14=-507/269, 5-14=-1139/233, 6-11=0/366, 6-10=-615/216, 8-10=-268/774

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 25-8-0, Exterior(2E) 25-8-0 to 28-10-4 zone; porch 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.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=229, 2=200, 14=281.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



**BCLL** 

BCDL

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

0.0

10.0

**BRACING-**

Horz(CT)

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

Weight: 242 lb

FT = 20%

**BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-14.

WFBS

0.02

1 Row at midpt

n/a

n/a

8-9, 6-10, 7-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=684/Mechanical, 2=328/0-3-8, 14=1205/0-3-8

Rep Stress Incr

Code FBC2020/TPI2014

Max Horz 2=395(LC 12)

Max Uplift9=-238(LC 12), 2=-208(LC 8), 14=-274(LC 12) Max Grav 9=774(LC 19), 2=328(LC 1), 14=1314(LC 2)

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

TOP CHORD 3-4=-227/370, 4-29=-700/0, 5-29=-691/0, 5-6=-732/9, 6-30=-298/0, 8-9=-781/275 **BOT CHORD** 2-31=-288/41, 14-31=-288/41, 13-14=-253/686, 12-13=-254/684, 11-12=-254/684,

YES

11-32=-229/661, 10-32=-229/661

**WEBS** 3-14=-456/257, 4-14=-1194/220, 6-11=-9/355, 6-10=-641/227, 8-10=-279/804

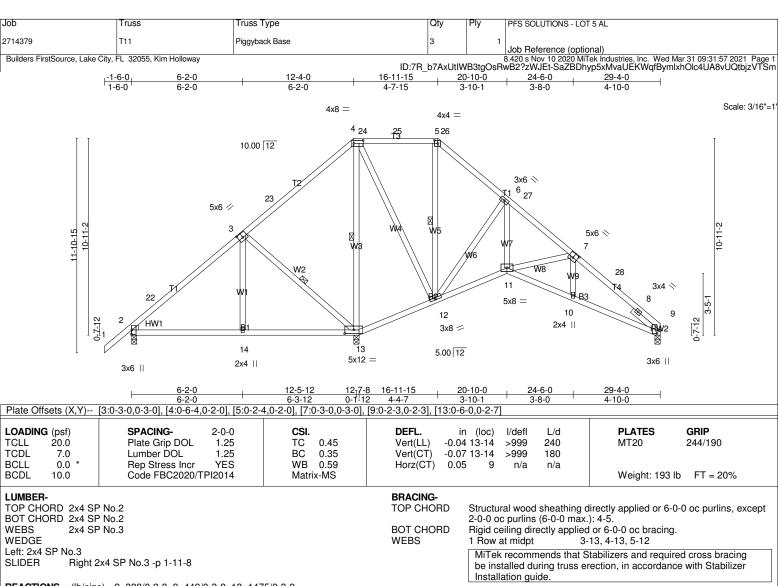
## NOTES-

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 26-2-5, Exterior(2E) 26-2-5 to 28-10-4 zone;

Matrix-MS

- porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

  3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=238, 2=208 14=274
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



**REACTIONS.** (lb/size) 2=328/0-3-8, 9=449/0-3-8, 13=1475/0-3-8

Max Horz 2=246(LC 11)

Max Uplift2=-114(LC 12), 9=-138(LC 13), 13=-226(LC 12) Max Grav 2=433(LC 23), 9=457(LC 24), 13=1475(LC 1)

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

TOP CHORD 2-22=-325/110, 3-23=0/289, 4-23=0/416, 6-27=-368/141, 7-27=-485/123, 7-28=-759/236,

8-28=-762/224. 8-9=-382/95

**BOT CHORD**  $12\text{-}13\text{=-}364/239,\ 11\text{-}12\text{=-}22/365,\ 10\text{-}11\text{=-}109/650,\ 9\text{-}10\text{=-}117/650}$ 

**WEBS** 3-14=0/290, 3-13=-451/249, 4-13=-1000/86, 4-12=-63/581, 6-12=-555/168, 6-11=-20/508,

7-11=-309/194

## NOTES-

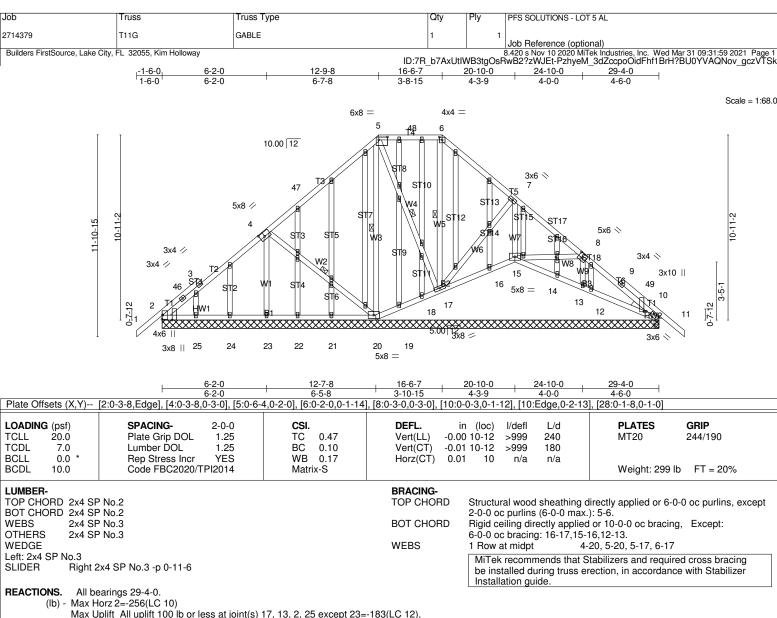
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-15, Interior(1) 16-6-15 to 16-11-15, Exterior(2R) 16-11-15 to 21-2-14, Interior(1) 21-2-14 to 29-4-0 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 8) Bearing at joint(s) 9 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=114, 9=138 13=226
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



20=-159(LC 12), 10=-145(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 15, 13, 12, 14, 16, 18, 25, 24, 22, 21, 19 except 23=395(LC 19), 17=415(LC 1), 2=264(LC 23), 10=285(LC 24),

10=283(LC 1)

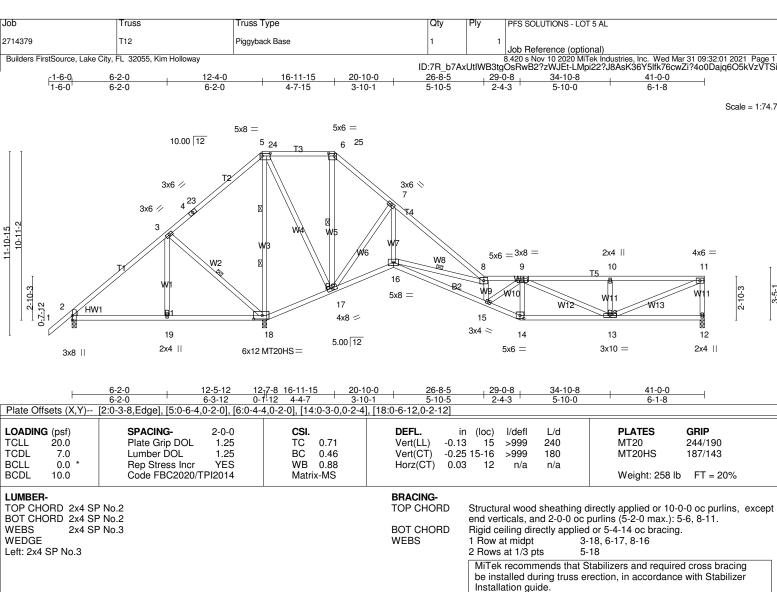
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 19-20=-132/270, 18-19=-132/269, 17-18=-124/270

**WEBS** 4-23=-351/194

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-9-8, Exterior(2E) 12-9-8 to 16-6-7, Exterior(2R) 16-6-7 to 20-10-0, Interior(1) 20-10-0 to 30-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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.

  10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13, 2, 25 except (jt=lb) 23=183, 20=159, 10=145.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Installation guide.

10-11-2

**REACTIONS.** (lb/size) 12=646/0-3-8, 2=-337/0-3-8, 18=2795/0-3-8

Max Horz 2=240(LC 9)

Max Uplift12=-169(LC 13), 2=-648(LC 24), 18=-546(LC 13) Max Grav 12=649(LC 24), 2=141(LC 13), 18=2795(LC 1)

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

 $2 - 3 = -239/1137, \ 3 - 4 = -217/1304, \ 4 - 23 = -206/1313, \ 5 - 23 = -197/1422, \ 5 - 24 = -41/652,$ TOP CHORD

24-25=-41/652, 6-25=-41/652, 6-7=-111/882, 7-8=-206/666, 8-9=-1158/264,

9-10=-1091/280, 10-11=-1091/280, 11-12=-593/183

**BOT CHORD** 2-19=-837/296, 18-19=-837/296, 17-18=-1181/434, 16-17=-474/245, 15-16=-300/1286,

14-15=-267/1105, 13-14=-254/1031

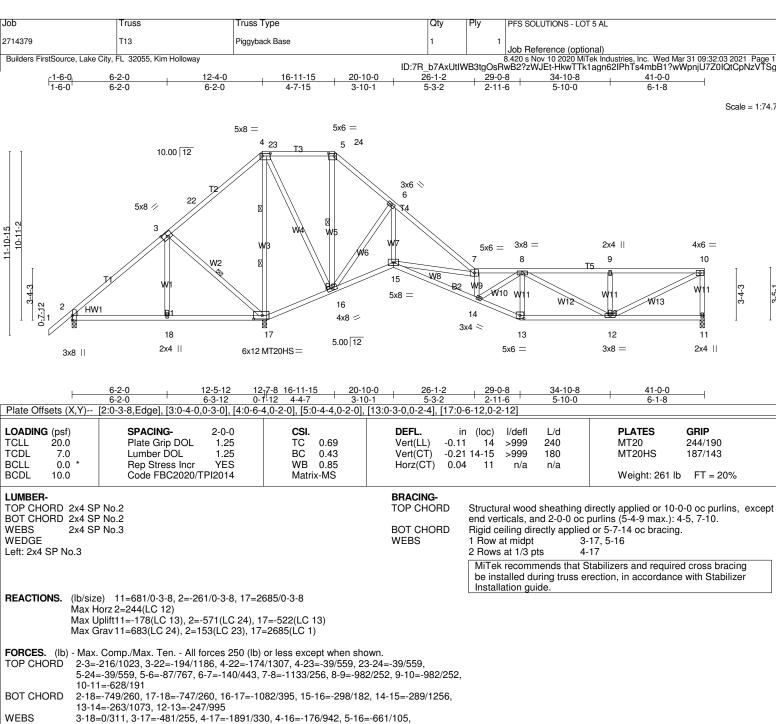
3-19=0/315, 3-18=-482/256, 5-18=-1959/336, 5-17=-168/937, 6-17=-730/116, 7-17=-389/165, 8-16=-1596/497, 9-14=-352/113, 10-13=-348/171, 11-13=-292/1142

## NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=169, 2=648, 18=546.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



10-11-2

6-16=-503/197, 6-15=0/371, 7-15=-1392/425, 8-13=-332/117, 9-12=-349/171,

10-12=-273/1068

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=178,
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty PFS SOLUTIONS - LOT 5 AL 2714379 T14 Piggyback Base Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:04 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-lxUrh42CR5EvwZGgQoHqkEY4fC7?DbCAW4clLpzVTSi 34-10-8 41-0-0 6-2-0 12-4-0 20-10-0 29-0-8 6-2-0 6-2-0 4-7-15 3-10-1 3-6-10 5-10-0 6-1-8 Scale = 1:74.7 5x6 = 5x8 = 4 23 5 24 Т3 10.00 12 3x6 \ 6 5x8 / 10-11-2 3 11 - 10 - 152x4 || 4x6 = 5x6 = 3x8 =8 9 10 W8 15 3-10-3 3-10-3 WH1 ₩10 5x8 = W12 WH1 ₩13 16 14 4x8 = 3x4 < 18 17 13 12 5.00 12 2x4 || 5x6 = 3x8 = 2x4 || 6x12 MT20HS = 3x8 || 12<sub>1</sub>7-8 16-11-15 0-1-12 4-4-7 41-0-0 34-10-8 6-2-0 6-3-12 3-10-1 3-6-10 5-10-0 6-1-8 [2:0-3-8,Edge], [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0], [13:0-3-0,0-2-4], [17:0-6-12,0-2-12] Plate Offsets (X,Y)--LOADING (psf) SPACING-I/d **PLATES GRIP** 2-0-0 CSI. DEFL in (loc) I/defl **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) -0.0914 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.43 Vert(CT) -0.18 14-15 >999 180 MT20HS 187/143 **BCLL** 0.0 WB 0.82 Rep Stress Incr YES Horz(CT) 0.05 11 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 264 lb FT = 20% 10.0 Matrix-MS LUMBER-**BRACING-**Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-4 max.): 4-5, 7-10. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 5-10-10 oc bracing. WFBS WEDGE WFBS 1 Row at midpt 3-17. 5-16 Left: 2x4 SP No.3 2 Rows at 1/3 pts 4-17 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. (lb/size) 11=708/0-3-8, 2=-199/0-3-8, 17=2595/0-3-8 Max Horz 2=254(LC 12) Max Uplift11=-185(LC 13), 2=-508(LC 24), 17=-504(LC 13) Max Grav 11=711(LC 24), 2=182(LC 23), 17=2595(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-199/931, 3-22=-177/1092, 4-22=-158/1213, 4-23=-37/483, 23-24=-37/483, TOP CHORD

10-11-2

5-24=-37/483, 5-6=-70/674, 6-7=-87/261, 7-8=-1077/239, 8-9=-892/228, 9-10=-892/228,

10-11=-657/199

**BOT CHORD** 2-18=-680/230, 17-18=-677/230, 16-17=-1003/362, 14-15=-268/1190, 13-14=-254/1029,

12-13=-236/950

3-18=0/309, 3-17=-478/255, 4-17=-1835/327, 4-16=-183/947, 5-16=-606/98, 6-16=-602/223,

6-15=-39/524, 7-15=-1198/358, 8-13=-307/118, 9-12=-349/170, 10-12=-257/1009

## NOTES-

**WEBS** 

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=185, 2=508, 17=504.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL T15 2714379 Piggyback Base Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:06 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-iJcb6m3SziVd9tQ2XDJlpfdRy0ojhVPS\_05sQizVTSd 29-0-8 41-0-0 1-6-0 20-10-0 34-10-8 6-2-0 6-2-0 4-7-15 3-10-1 3-2-6 5-0-2 5-10-0 6-1-8 Scale = 1:76.0 5x8 = 5x6 = 10.00 12 5 25 26 6 Т3 3x6 / 3x6 <> 3x6 // 3x8 = 2x4 || 3x6 = 4x6 = 5x6 = 10-11-2 3 11-10-15 9 10 12 11 W8 5-0-12 5-0-12 ₩10 **W**13 5x8 = 16 18 HW1 3x4 > 4x8 = 20 19 15 14 13 5.00 12 6x8 =3x8 = 2x4 II 5x6 =2x4 II 3x6 || 12<sub>1</sub>7-8 16-11-15 0-1-12 4-4-7 34-10-8 41-0-0 3-10-1 5-10-0 6-1-8 Plate Offsets (X,Y)-- [5:0-6-4,0-2-0], [6:0-4-4,0-2-0], [15:0-3-0,0-2-4], [19:0-2-12,0-2-12] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.61 Vert(LL) -0.0716 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.41 Vert(CT) -0.14 15-16 >999 180 **BCLL** 0.0 YES WB 0.78 Rep Stress Incr Horz(CT) 0.06 13 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 272 lb 10.0 Matrix-MS FT = 20%LUMBER-**BRACING-**Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-0 max.): 5-6, 8-12. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS WEDGE WFBS 1 Row at midpt 3-19.6-18 Left: 2x4 SP No.3 2 Rows at 1/3 pts 5-19 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. (lb/size) 13=757/0-3-8, 2=-91/0-3-8, 19=2439/0-3-8 Max Horz 2=278(LC 12) Max Uplift13=-198(LC 13), 2=-399(LC 24), 19=-477(LC 13) Max Grav 13=760(LC 24), 2=233(LC 23), 19=2439(LC 1)

10-11-2

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

TOP CHORD 2-3=-182/772, 3-4=-155/927, 4-24=-144/936, 5-24=-135/1049, 5-25=-35/351,

25-26=-35/351, 6-26=-35/351, 6-7=-56/512, 8-9=-890/188, 9-10=-726/185, 10-11=-726/185,

11-12=-726/185, 12-13=-707/211

**BOT CHORD** 2-20=-560/192, 19-20=-560/192, 18-19=-863/299, 16-17=-209/973, 15-16=-230/918,

14-15=-211/837

3-20=0/305, 3-19=-469/255, 5-19=-1735/327, 5-18=-198/957, 6-18=-511/91, 7-18=-773/263,

7-17=-140/805, 8-17=-838/234, 10-14=-341/166, 12-14=-231/907

## NOTES-

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=198, 2=399 19=477
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL T16 2714379 Piggyback Base Job Reference (optional) 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:08 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-eikMXR5iVKILPBaRfeMmu4jnpqUm9OklRiazUbzVTSb Builders FirstSource, Lake City, FL 32055, Kim Holloway 34-10-8 1-6-0 20-10-0 41-0-0 6-2-0 6-2-0 4-7-15 3-10-1 5-10-0 6-1-8 Scale = 1:76.0 5x8 = 5x6 = 4 24 25 5 Т3 10.00 12

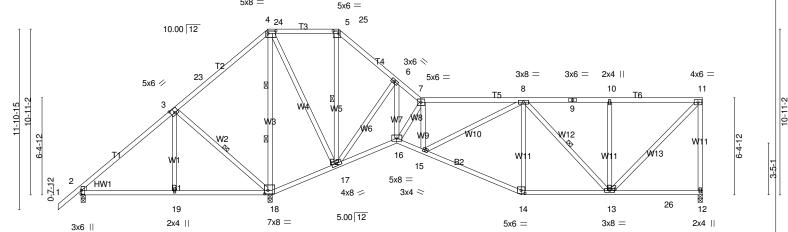


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0], [14:0-3-0,0-2-4], [18:0-2-12,0-2-12] LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.59 Vert(LL) -0.10 14-15 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.44 Vert(CT) -0.20 14-15 >999 180 **BCLL** 0.0 YES WB 0.85 Rep Stress Incr Horz(CT) 0.06 12 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 283 lb 10.0 Matrix-MS FT = 20%

3-10-1

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS WEDGE

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 7-11. Rigid ceiling directly applied or 6-0-0 oc bracing.

41-0-0

6-1-8

**BOT CHORD** WFBS

1 Row at midpt 3-18, 5-17, 8-13

4-18

34-10-8

5-10-0

2 Rows at 1/3 pts

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=791/0-3-8, 2=-13/0-3-8, 18=2326/0-3-8

Max Horz 2=304(LC 12)

Max Uplift12=-208(LC 13), 2=-320(LC 24), 18=-463(LC 13) Max Grav 12=878(LC 26), 2=270(LC 23), 18=2490(LC 2)

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

2-3=-190/655, 3-23=-167/870, 4-23=-148/976, 4-24=-34/280, 24-25=-34/280, 5-25=-34/280, TOP CHORD

5-6=-54/404, 6-7=-410/93, 7-8=-721/136, 8-9=-645/154, 9-10=-645/154, 10-11=-645/154,

11-12=-762/222

**BOT CHORD**  $2 - 19 = -471/172,\ 18 - 19 = -469/173,\ 17 - 18 = -828/246,\ 16 - 17 = -65/335,\ 15 - 16 = -153/752,$ 

14-15=-209/884, 13-14=-189/776

3-19=0/302, 3-18=-561/255, 4-18=-1713/335, 4-17=-210/1028, 5-17=-436/87, 6-17=-956/292, 6-16=-224/1133, 7-16=-808/182, 7-15=-10/285, 10-13=-326/158,

11-13=-215/902

## NOTES-

**WEBS** 

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2R) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=208, 2=320 18=463
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - LOT 5 AL 2714379 T17 Piggyback Base Job Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:09 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-6ulkkn5LGdtC0K9dCLt?RIFz9DlsupHvgMKW11zVTSa 20-10-0 41-0-0 1-6-0 16-11-15 29-0-8 34-10-8 6-2-0 6-2-0 4-7-15 3-10-0 4-1-4 5-10-0 6-1-8 Scale = 1:76.0 5x8 = 5x6 = 4 23 5 24 Т3 10.00 12 3x4 =3x6 = 2x4 | |4x6 =5x6 =3x4 = 8 10 11 T5 **T6** 5x6 // 10-11-2 3 11-10-15 W6 W9 *N*11 7-8-12 **W**10 φ, 15 5x12 = 16 HW1 4x8 = 25 26 18 17 14 13 12 5.00 12 5x8 =3x8 = 2x4 II 5x6 =2x4 || 3x6 || 12<sub>1</sub>7-8 16-11-15 0-1-12 4-4-7 41-0-0 34-10-8 5-10-0 6-1-8 Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0], [14:0-3-0,0-2-4], [17:0-2-12,0-2-12] LOADING (psf) SPACING-**DEFL PLATES GRIP** 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.55 Vert(LL) -0.20 14-15 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.71 Vert(CT) -0.41 14-15 >819 180 **BCLL** 0.0 YES WB 0.96 Rep Stress Incr Horz(CT) 0.06 12 n/a n/a BCDL Code FBC2020/TPI2014 Weight: 292 lb 10.0 Matrix-MS FT = 20%LUMBER-**BRACING-**Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-11. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing WFBS WEDGE 11-12, 3-17, 4-17, 5-16, 6-16, 7-14, 8-13 WFBS 1 Row at midpt Left: 2x4 SP No.3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. **REACTIONS.** (lb/size) 12=836/0-3-8, 2=87/0-3-8, 17=2181/0-3-8 Max Horz 2=330(LC 12) Max Uplift12=-226(LC 9), 2=-217(LC 24), 17=-438(LC 13) Max Grav 12=957(LC 26), 2=317(LC 23), 17=2371(LC 2)

10-11-2

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

2-3=-188/504, 3-22=-165/726, 4-22=-146/835, 5-6=-21/259, 6-7=-560/123, 7-8=-735/174, 8-9=-592/143, 9-10=-592/143, 10-11=-592/143, 11-12=-836/240 TOP CHORD

**BOT CHORD** 2-18=-357/149, 17-18=-354/149, 16-17=-711/183, 15-16=-136/639, 14-15=-224/857,

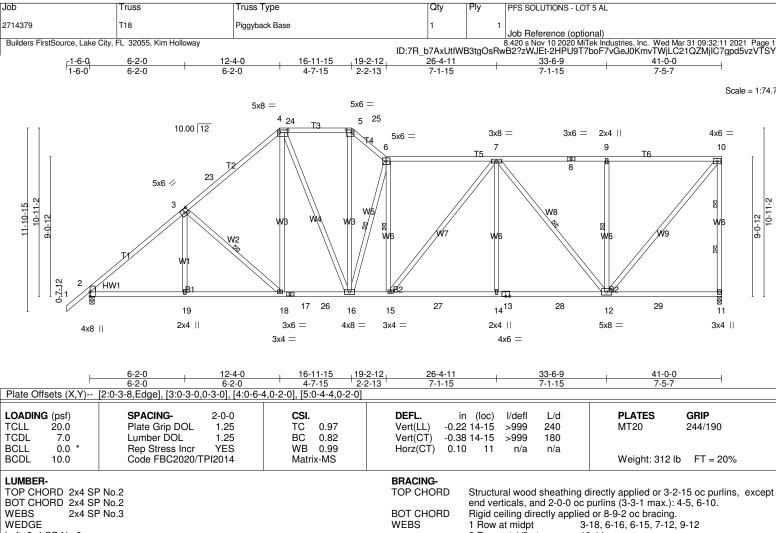
14-25=-176/736, 13-25=-176/736

 $3-18=0/298,\ 3-17=-555/255,\ 4-17=-1638/335,\ 4-16=-222/1045,\ 5-16=-335/85,\ 5-16=-335/85,\ 5-$ **WEBS** 

6-16=-1215/315, 6-15=-168/947, 7-15=-264/106, 10-13=-354/172, 11-13=-224/928

## 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2E) 16-11-15 to 20-10-0, Interior(1) 20-10-0 to 40-10-4 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.
- \* 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=226. 2=217, 17=438
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Left: 2x4 SP No.3

2 Rows at 1/3 pts 10-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 11=1510/0-3-8, 2=1594/0-3-8

Max Horz 2=356(LC 12)

Max Uplift11=-372(LC 9), 2=-254(LC 12) Max Grav 11=1761(LC 2), 2=1752(LC 2)

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

2-3=-2245/368, 3-23=-1921/373, 4-23=-1829/395, 4-24=-1607/383, 24-25=-1607/383, TOP CHORD

5-25=-1607/383, 5-6=-2103/471, 6-7=-2019/403, 7-8=-1238/260, 8-9=-1238/260,

9-10=-1238/260, 10-11=-1609/390

2-19=-452/1695, 18-19=-451/1698, 17-18=-317/1407, 17-26=-317/1407, 16-26=-317/1407, **BOT CHORD** 

15-16=-405/2018, 15-27=-387/1907, 14-27=-387/1907, 13-14=-387/1907, 13-28=-387/1907,

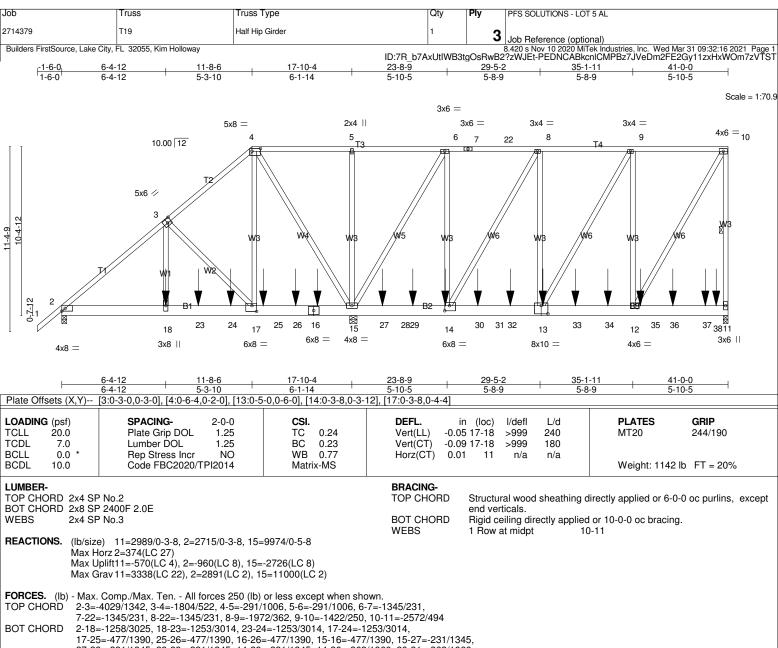
12-28=-387/1907

3-18=-431/242, 4-18=-118/524, 4-16=-131/581, 5-16=-234/1181, 6-16=-1631/365,

7-15=-94/269, 7-14=0/408, 7-12=-1059/211, 9-12=-420/203, 10-12=-402/1912

**WEBS** 

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 12-4-0, Exterior(2R) 12-4-0 to 16-5-4, Interior(1) 16-5-4 to 16-11-15, Exterior(2E) 16-11-15 to 19-2-12, Interior(1) 19-2-12 to 40-10-4 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.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=372, 2=254
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



27-28=-231/1345, 28-29=-231/1345, 14-29=-231/1345, 14-30=-362/1966, 30-31=-362/1966,

31-32=-362/1966, 13-32=-362/1966, 13-33=-250/1422, 33-34=-250/1422, 12-34=-250/1422

3-18=-1171/2882, 3-17=-2411/1134, 4-17=-1391/4761, 4-15=-4554/1405, 5-15=-371/178,

6-15=-4591/1028, 6-14=-752/3715, 8-14=-1262/276, 8-13=-107/851, 9-13=-228/1116,

9-12=-1243/362, 10-12=-497/2840

## NOTES-

**WEBS** 

1) 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: 2x8 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-8-0 oc, Except member 17-3 2x4 - 1 row at 0-9-0 oc, member 17-4 2x4 - 1 row at 0-9-0 oc, member 15-4 2x4 - 1 row at 0-9-0 oc, member 5-15 2x4 - 1 row at 0-9-0 oc, member 15-6 2x4 - 1 row at 0-9-0 oc, member 6-14 2x4 - 1 row at 0-9-0 oc, member 14-8 2x4 - 1 row at 0-9-0 oc, member 8-13 2x4 - 1 row at 0-9-0 oc, member 13-9 2x4 - 1 row at 0-9-0 oc, member 9-12 2x4 - 1 row at 0-9-0 oc, member 12-10 2x4 - 1 row at 0-9-0 oc.

2) 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.

3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

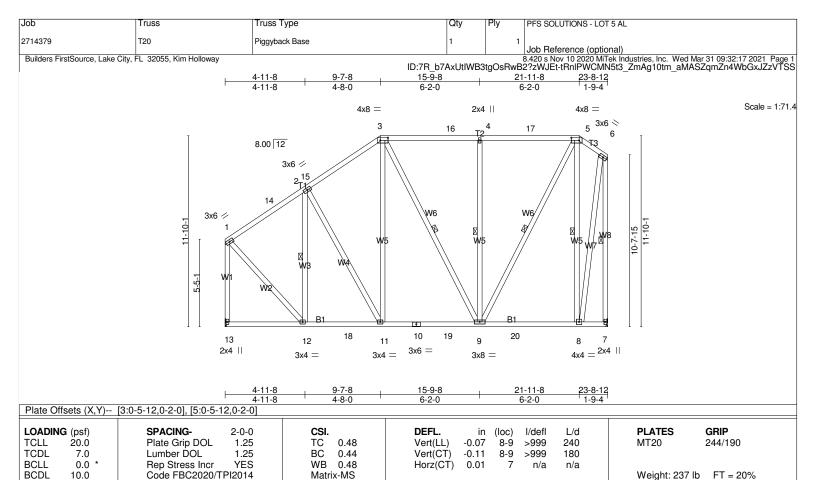
6) Provide adequate drainage to prevent water ponding.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=570 2=960, 15=2726.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T19	Half Hip Girder	1		Inh Deference (entings)
Builders FirstSource,	Lake City, FL 32055, Kim Holloway	,	ID:7R_b7AxUtIWB	3tgOsRwE	Job Reference (optional)  8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:16 2021 Page 2 32?zWJEt-PEDNCABkcnICMPBz7JVeDm2FE2Gy11zxHxWOm7zVTST
11) Hanger(s) or 8-4-12, 975 lb down and 223 at 27-7-4, 32	o down and 227 lb up at `10 3 lb up at 19-8-12, 898 lb d 7 lb down and 57 lb up at 2 7-7-4, and 317 lb down and	4-12, 965 lb down and 227 lb up a own and 223 lb up at 21-7-4, 962 l 9-7-4, 326 lb down and 57 lb up at	t 12-4-12, 960 lb down a b down and 221 lb up at : 31-7-4, 317 lb down and	nd 227 lb 23-7-4, 8   57 lb up	own and 1092 lb up at 6-4-12, 982 lb down and 226 lb up at up at 14-4-12, 964 lb down and 221 lb up at 15-8-12, 909 lb 90 lb down and 227 lb up at 25-7-4, 879 lb down and 227 lb up at 33-7-4, 329 lb down and 57 lb up at 35-7-4, 329 lb down and m chord. The design/selection of such connection device(s) is
Uniform Loads	ive (balanced): Lumber Incr	ease=1.25, Plate Increase=1.25			
			H=-840(B) 25=-840(B) 26=	-840(B) 2	27=-848(B) 29=-848(B) 30=-840(B) 32=-840(B) 33=-300(B)



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

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

**BOT CHORD** WFBS

Rigid ceiling directly applied or 10-0-0 oc bracing 2-12, 3-9, 4-9, 5-9, 5-8, 6-7 1 Row at midpt

Installation guide.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

REACTIONS. (lb/size) 13=867/Mechanical, 7=867/Mechanical

Max Horz 13=197(LC 12)

Max Uplift13=-147(LC 12), 7=-206(LC 12) Max Grav 13=994(LC 2), 7=1017(LC 2)

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

TOP CHORD 1-14=-629/110, 2-14=-555/123, 2-15=-678/175, 3-15=-667/197, 3-16=-485/151,

4-16=-485/151, 4-17=-485/151, 5-17=-485/151, 1-13=-921/159, 6-7=-1035/197

BOT CHORD 12-18=-243/517, 11-18=-243/517, 10-11=-182/513, 10-19=-182/513, 9-19=-182/513 **WEBS** 

2-12=-337/77, 3-11=-76/270, 4-9=-389/189, 5-9=-218/724, 5-8=-703/226, 1-12=-61/693,

6-8=-192/927

## 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=20ft; 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 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

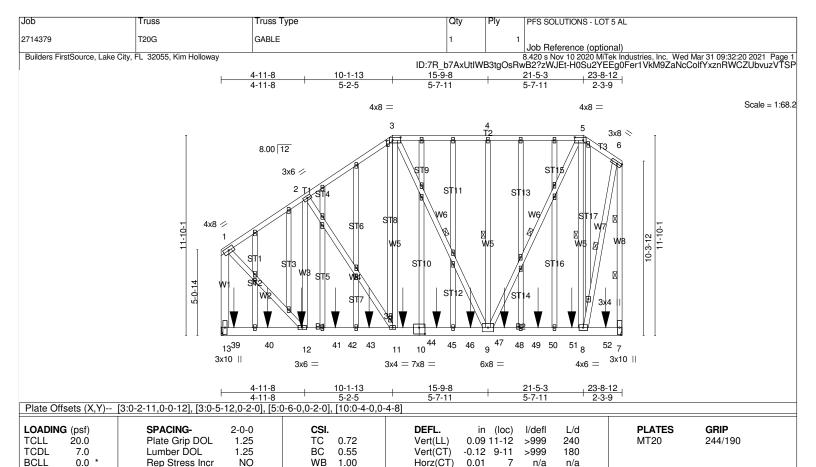
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

8) Refer to girder(s) for truss to truss connections.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=147.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 \*Except\* **WEBS** 

W6,W8: 2x4 SP No.2, W1: 2x6 SP No.2

2x4 SP No.3

OTHERS

**BRACING-**

WFBS

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 3-5. Rigid ceiling directly applied or 8-10-12 oc bracing.

1 Row at midpt 3-9, 4-9, 5-9, 5-8, 6-8

2 Rows at 1/3 pts 6-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Weight: 396 lb

FT = 20%

REACTIONS. (lb/size) 13=2104/Mechanical, 7=2074/Mechanical

Code FBC2020/TPI2014

Max Horz 13=221(LC 5)

Max Uplift13=-1046(LC 8), 7=-1072(LC 8) Max Grav 13=2226(LC 33), 7=2148(LC 33)

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

TOP CHORD 1-2=-1383/623, 2-3=-1432/726, 3-4=-1012/561, 4-5=-1012/561, 5-6=-486/255,

1-13=-1893/871. 6-7=-2058/1021

**BOT CHORD** 12-41=-661/1167, 41-42=-661/1167, 42-43=-661/1167, 11-43=-661/1167, 11-44=-620/1156,

10-44=-620/1156, 10-45=-620/1156, 45-46=-620/1156, 46-47=-620/1156, 9-47=-620/1156,

9-48=-194/383, 48-49=-194/383, 49-50=-194/383, 50-51=-194/383, 8-51=-194/383 2-12=-364/129, 11-38=-371/793, 3-38=-441/836, 3-9=-303/198, 4-9=-354/175,

5-9=-778/1450, 5-8=-1186/611, 1-12=-671/1482, 6-8=-911/1797

## NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

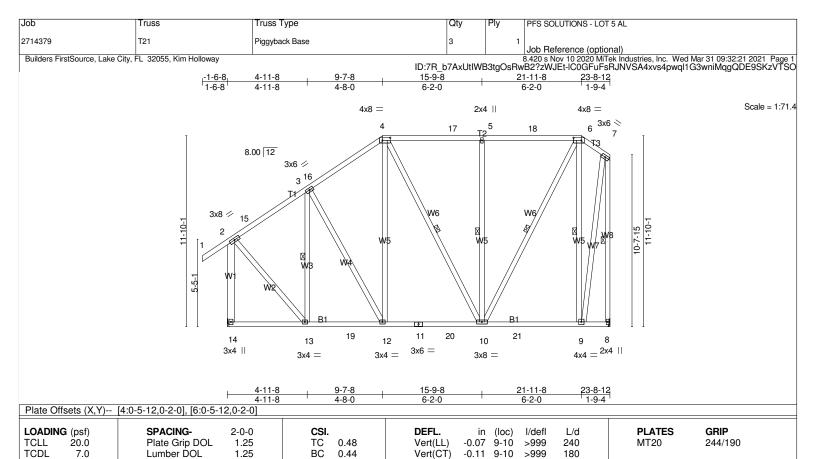
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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. 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=1046, 7=1072.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T20G	GABLE	1	1	
Builders FirstSource, Lake C	ity, FL 32055, Kim Holloway				Job Reference (optional) 8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:20 2021 Page 2 vB2?2WJEt-H0Su2YEEg0Fer1VkM9ZaNcColfYxznRWCZUbvuzVTSP
209 lb down and 10 up at 12-9-2, 209 l 210 lb down and 10	61 lb up at 4-9-2, 209 lb d b down and 161 lb up at 1 60 lb up at 22-9-2 on botto (S) section, loads applied	own and 161 lb up at 6-9-2, 209 lb dov	entrated load(s) 21: vn and 161 lb up at 6-9-2, 209 lb down n connection device	3 lb dowr 8-9-2, 2 and 161	n and 157 lb up at 0-9-2, 209 lb down and 161 lb up at 2-9-2, 209 lb down and 161 lb up at 10-9-2, 209 lb down and 161 lb lb up at 18-9-2, and 209 lb down and 161 lb up at 20-9-2, and
1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-3=-5 Concentrated Loads	alanced): Lumber Increase 4, 3-5=-54, 5-6=-54, 7-13= 5 (lb)		15=-204(F) 47=-204	4(F) 48=-	204(F) 50=-204(F) 51=-204(F) 52=-205(F)



**BCLL** 

BCDL

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

0.0

2x4 SP No.3 \*Except\* WFBS

W6: 2x4 SP No.2, W1: 2x6 SP No.2

**BRACING-**

Horz(CT)

TOP CHORD

0.01

8

n/a

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Weight: 244 lb

FT = 20%

**BOT CHORD** WFBS

Rigid ceiling directly applied or 10-0-0 oc bracing. 3-13, 4-10, 5-10, 6-10, 6-9, 7-8 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=963/Mechanical, 8=860/Mechanical

Rep Stress Incr

Code FBC2020/TPI2014

Max Horz 14=239(LC 9)

Max Uplift14=-185(LC 12), 8=-207(LC 9) Max Grav 14=1071(LC 2), 8=1010(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-15=-626/111, 3-15=-558/131, 3-16=-667/170, 4-16=-656/192, 4-17=-481/149,

5-17=-481/149, 5-18=-481/149, 6-18=-481/149, 2-14=-998/196, 7-8=-1028/198

YES

BOT CHORD 13-19=-236/525, 12-19=-236/525, 11-12=-179/508, 11-20=-179/508, 10-20=-179/508

**WEBS** 3-13=-335/72, 4-12=-75/273, 5-10=-388/189, 6-10=-216/716, 6-9=-697/238, 2-13=-53/680,

7-9=-203/921

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7 Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical left exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.48

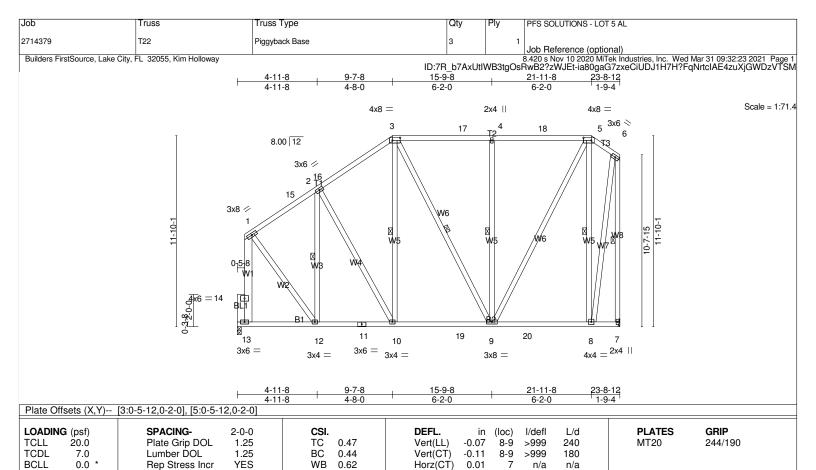
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

8) Refer to girder(s) for truss to truss connections.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=185, 8=207
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



BCDL

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

2x4 SP No.3 \*Except\* **WEBS** W6: 2x4 SP No.2, W1: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

**BOT CHORD** WFBS

Rigid ceiling directly applied or 10-0-0 oc bracing 1 Row at midpt

2-12, 3-10, 3-9, 4-9, 5-8, 6-7

Weight: 245 lb

FT = 20%

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=843/0-3-0, 7=856/Mechanical

Max Horz 13=204(LC 9) Max Uplift13=-143(LC 12), 7=-201(LC 9)

Max Grav 13=974(LC 2), 7=1004(LC 2)

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

Code FBC2020/TPI2014

TOP CHORD 1-15=-593/116, 2-15=-499/122, 2-16=-658/161, 3-16=-648/183, 3-17=-477/145,

4-17=-477/145, 4-18=-477/145, 5-18=-477/145, 13-14=-906/156, 1-14=-907/155,

6-7=-1023/195

 $11 - 12 = -221/507, \ 10 - 11 = -221/507, \ 10 - 19 = -171/499, \ 9 - 19 = -171/499$ 

2-12=-348/87, 3-10=-70/260, 4-9=-388/189, 5-9=-208/709, 5-8=-692/233, 1-12=-72/658, **WEBS** 

6-8=-198/916

### NOTES-

**BOT CHORD** 

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-8-4 to 3-8-4, Interior(1) 3-8-4 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

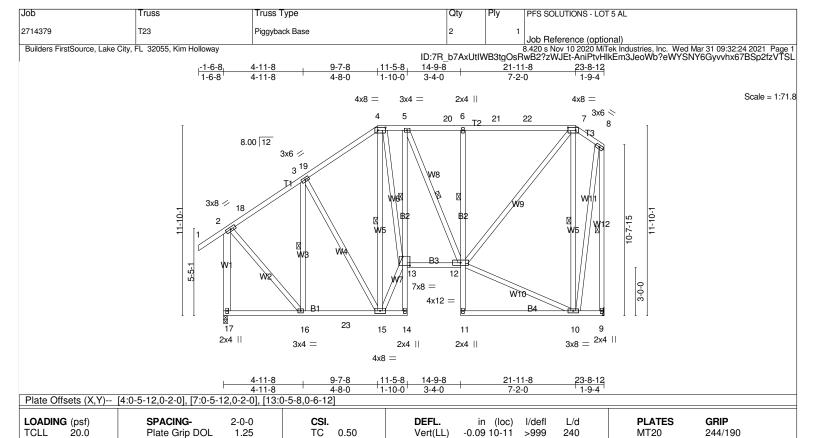
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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.
- \* 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.

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

- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=143,
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2

7.0

0.0

BOT CHORD 2x4 SP No.2 \*Except\*

B2: 2x4 SP No.3 **WEBS** 2x4 SP No.3 \*Except\*

W1: 2x6 SP No.2

**BRACING-**

**WEBS** 

Vert(CT)

Horz(CT)

-0.18 10-11

0.10

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Weight: 281 lb

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14.

>999

n/a

1 Row at midpt 5-13, 6-12

1 Row at midpt 3-16, 4-15, 5-12, 7-10, 8-9

180

n/a

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. (lb/size) 17=963/0-3-0, 9=860/Mechanical

Max Horz 17=239(LC 9)

Max Uplift17=-185(LC 12), 9=-207(LC 9) Max Grav 17=1032(LC 2), 9=929(LC 2)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-18=-600/110, 3-18=-496/130, 3-19=-627/173, 4-19=-617/195, 4-5=-631/247,

1.25

YES

5-20=-615/209, 6-20=-615/209, 6-21=-616/209, 21-22=-616/209, 7-22=-616/209,

2-17=-960/195, 8-9=-962/194

**BOT CHORD** 16-23=-236/504, 15-23=-236/504, 12-13=-227/635, 6-12=-369/176

WEBS 3-16=-340/77, 4-15=-732/243, 13-15=-365/986, 4-13=-261/893, 7-12=-255/751,

7-10=-714/268, 2-16=-54/651, 8-10=-207/873

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7 Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-MS

0.35

0.58

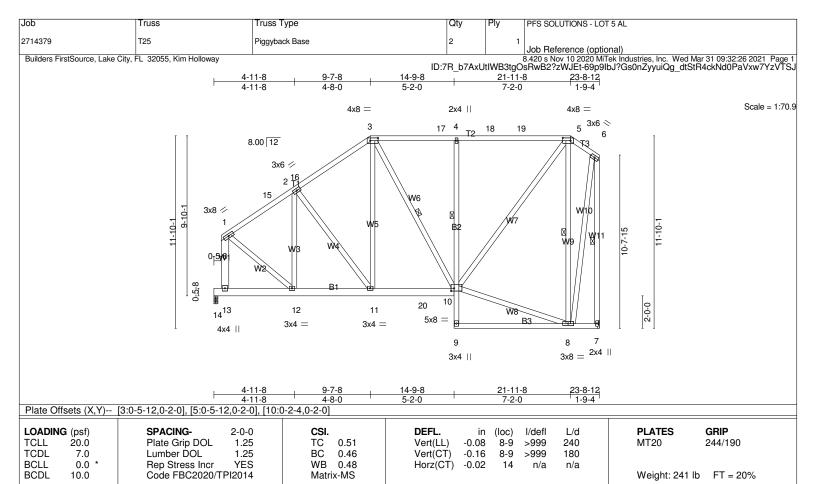
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

8) Refer to girder(s) for truss to truss connections.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=185, 9 = 207
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\* B1: 2x6 SP No.2, B2: 2x4 SP No.3

2x4 SP No.3 \*Except\* **WEBS** 

W1: 2x6 SP No.2

**BRACING-**

WFBS

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

1 Row at midpt 4-10

1 Row at midpt 3-10, 5-8, 6-7

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=838/0-3-0, 7=868/Mechanical

Max Horz 7=183(LC 9)

Max Uplift14=-143(LC 12), 7=-203(LC 9) Max Grav 14=926(LC 2), 7=948(LC 2)

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

1-15=-780/124, 2-15=-687/136, 2-16=-771/166, 3-16=-761/188, 3-17=-573/154. TOP CHORD

4-17=-573/154, 4-18=-573/154, 18-19=-573/154, 5-19=-573/154, 1-13=-921/167,

6-7=-978/189

BOT CHORD 11-12=-103/611, 11-20=-102/592, 10-20=-102/592, 4-10=-392/191 **WEBS** 

3-11=-58/323, 5-10=-181/726, 5-8=-701/204, 1-12=-82/682, 6-8=-203/886

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-8-4 to 3-8-4, Interior(1) 3-8-4 to 9-7-8, Exterior(2R) 9-7-8 to 13-10-7, Interior(1) 13-10-7 to 21-11-8, Exterior(2E) 21-11-8 to 23-7-0 zone; end vertical 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.

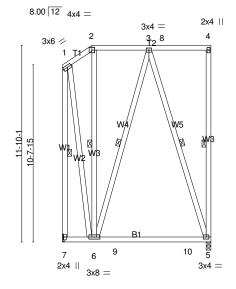
4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143,
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type			Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	T26	Piggyback Base			7	1	Job Reference (optional)
Builders FirstSource, Lake City,	FL 32055, Kim Holloway			ID:7R_b	7AxUtIWE	3tgOsRw	8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:27 2021 Page 1 B2?zWJEt-aMNXWxJd198eA5X5G7BDA5?7MUxa69XYp9hTf_zVTS
		1-9 1-9	9-4 5-2-8 9-4 3-5-4		3-11-4 3-8-12	+	



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) -0.12 5-6 >838 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.19 5-6 >539 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 126 lb FT = 20%

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **WFBS** 

### **BRACING-**

TOP CHORD

**BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4. Rigid ceiling directly applied or 6-0-0 oc bracing.

Scale = 1:69.4

1 Row at midpt 4-5, 2-6, 3-6, 3-5, 1-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=320/Mechanical, 5=320/0-3-8

Max Horz 7=38(LC 12)

Max Uplift7=-37(LC 9), 5=-112(LC 9) Max Grav 7=367(LC 2), 5=379(LC 2)

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

TOP CHORD 1-7=-447/44 WEBS 1-6=-34/376

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-9-4, Exterior(2R) 1-9-4 to 6-0-2, Interior(1) 6-0-2 to 8-9-8 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=112.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type		Qty	Ply	PFS SC	DLUTIONS - LOT 5	5 AL	
		''			'	_		<del>-</del>	
2714379	TG01	Flat Girder		1		Job Re	eference (option	al)	
Builders FirstSource, L	ake City, FL 32055, Kim Hollowa	у	ID-7I	) h7/v/li	-IVVD2+~O	8.420 s l	Vov 10 2020 MiTel	k Industries, Inc. Wed	Mar 31 09:32:28 2021 Page 1 H?uOere0i1pQ0CQzVTSH
			3-8-14	T_D/AXU	iwbsigO	SHWB2 !	ZVVJEL-ZYXVJHNI	riiiGvorbriqqjSiii	H?uOereuIIpQuCQZVISF
			3-8-14						
									Scale = 1:31.
			1 5	2					Ocaic = 1.01.0
			3x4 = T1	2x4	II				
			TT\						
		2-8-8 2-8	W1 \	W1					
		ΐ	W2\						
				$\setminus \mid \mid \mid$					
				$\langle \   \   \  $					
			<u> </u>	/71					
			В1						
			<u>.                                      </u>	&					
			6	3					
		2	4 	4x4 =					
		2.	• 11						
			3-8-14 3-8-14						
LOADING (psf)	SPACING-	2-0-0 <b>CSI</b> .	DEFL.	i	n (loc) 0 3-4	l/defl	L/d	PLATES MT20	GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL Lumber DOL	1.25 TC 1.25 BC	0.32 Vert(LI 0.11 Vert(C			>999 >999	240 180	IVI I ZU	244/190
BCLL 0.0 *	Rep Stress Incr	NO WB	0.00 Horz(C			n/a	n/a		
BCDL 10.0	Code FBC2020	TPI2014 Matri	-MP					Weight: 38 II	b FT = 20%

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WFBS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=164/Mechanical, 3=167/Mechanical Max Uplift4=-93(LC 4), 3=-97(LC 4)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 89 lb up at 1-11-4 on top chord, and 65 lb down and 56 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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: 1-2=-54, 3-4=-20 Concentrated Loads (lb)

Vert: 5=-50(B) 6=-25(B)

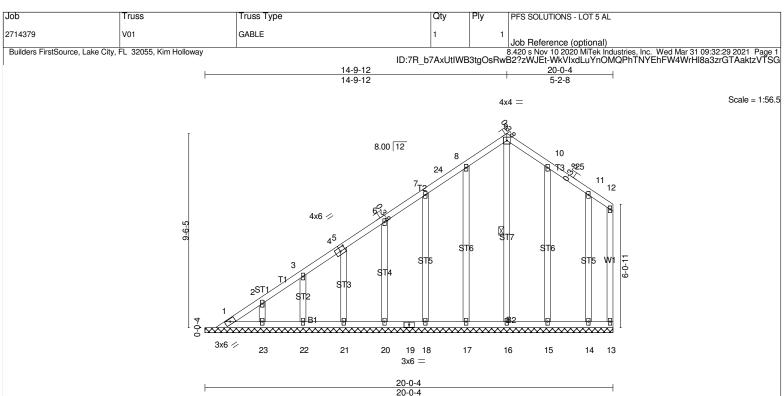


Plate Offsets (X,Y)-- [4:0-3-0,0-2-4]

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 0.05	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 13 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 144 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

BOT CHORD WEBS Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Bow at midpt 9-16

1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 20-0-4.

(lb) - Max Horz 1=251(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14

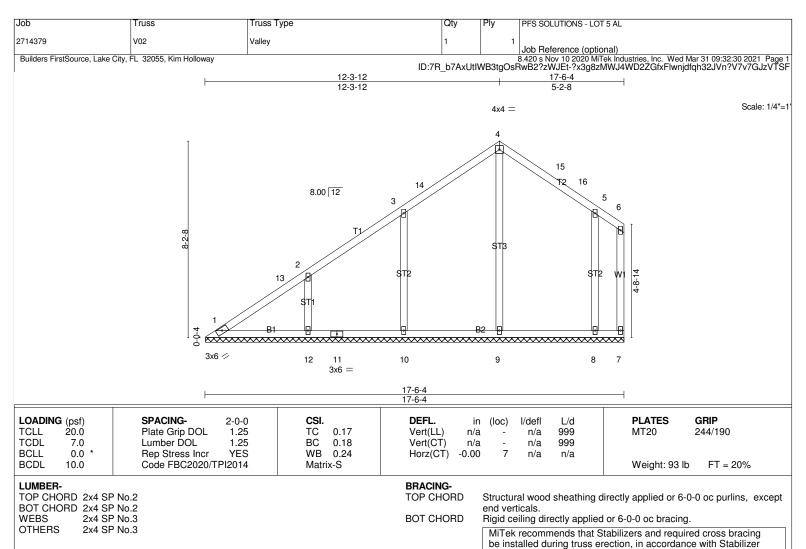
Max Grav All reactions 250 lb or less at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14

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

TOP CHORD 1-2=-284/177

#### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-0-1 to 4-0-1, Interior(1) 4-0-1 to 14-9-12, Exterior(2R) 14-9-12 to 17-9-12, Interior(1) 17-9-12 to 19-10-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 1, 16, 17, 18, 20, 21, 22, 23, 15, 14.



Installation guide.

REACTIONS. All bearings 17-5-14. (lb) - Max Horz 1=206(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 10=-150(LC 12), 12=-153(LC 12), 8=-142(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=412(LC 19), 10=406(LC 19), 12=400(LC 19), 8=388(LC

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

# 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 12-3-12, Exterior(2R) 12-3-12 to 15-3-12, interior(1) 3-5-12 to 12-3-12, Exterior(2R) 12-3-12 to 15-3-12, interior(1) 3-5-12 to 12-3-12, Exterior(2R) 12-3-12 to 15-3-12, interior(1) 3-5-12 to 12-3-12, interior(2R) 12-3-12 to 15-3-12 to 1 Interior(1) 15-3-12 to 17-4-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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. 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (jt=lb) 10=150, 12=153, 8=142.

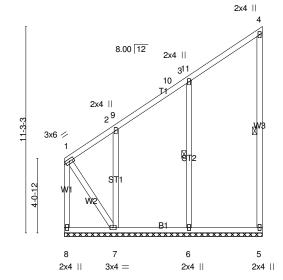
Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	V03	Valley	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

B.420 s Nov 10 2020 MTek Industries, Inc. Wed Mar 31 09:32:31 2021 Page 1 ID:7R\_b7AxUtlWB3tgOsRwB2?zWJEt-T7d2LJN84Oe4fjqsVzG9KxAqR5Nz2\_p8knfholzVTSE

10-9-10 10-9-10

Scale = 1:62.9



TCDL 7.0 Lumb	CING- 2-0-0 Grip DOL 1.25 per DOL 1.25 Stress Incr YES	CSI. TC 0.18 BC 0.20 WB 0.13	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 5	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/190
	FBC2020/TPI2014	Matrix-S	(01)			Weight: 83 lb FT = 20%

LUMBER-

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

### **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WFBS 1 Row at midpt 4-5, 3-6

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-9-10.

(lb) - Max Horz 8=209(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 8=-132(LC 10), 6=-108(LC 12), 7=-431(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5 except 8=407(LC 12), 6=477(LC 19), 7=453(LC 19)

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

1-8=-470/215, 1-2=-267/143 3-6=-254/195, 1-7=-211/422 TOP CHORD WEBS

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 10-7-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=132, 6=108, 7=431.

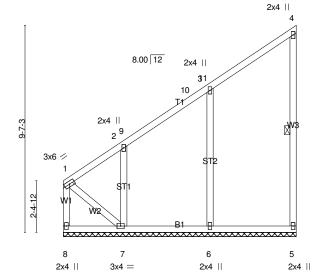
Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - LOT 5 AL
2714379	V04	Valley	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:32 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-xJBQZfNmrimxHtP23gnOt8i?BVjCnPkHyROELCzVTSD

10-9-10

Scale = 1:53.4



LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	CSI. TC 0.18 BC 0.20 WB 0.21	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         - n/a         999           Vert(CT)         n/a         - n/a         999           Horz(CT)         -0.00         5         n/a         n/a	<b>PLATES GRIP</b> MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 71 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS

4-5 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-9-10.

(lb) - Max Horz 8=209(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 6=-108(LC 12), 7=-302(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 5 except 8=277(LC 12), 6=476(LC 19), 7=413(LC 19)

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

TOP CHORD 1-8=-319/141, 1-2=-267/142 WEBS 3-6=-253/194, 1-7=-157/310

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 10-7-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (|t=|b|) 6=108, 7=302.

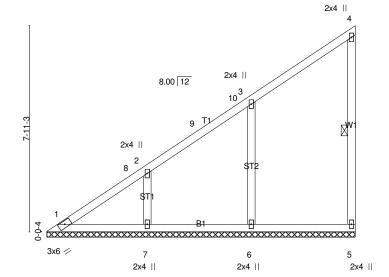


Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.420 s Nov 10 2020 MiTek Industries, Inc. Wed Mar 31 09:32:33 2021 Page 1 ID:7R\_b7AxUtIWB3tgOsRwB2?zWJEt-PWlom\_OOc?uov0\_EcOldPMFA3v4zWuSRB58ntezVTSC

11-10-12

Scale = 1:44.3



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 0.17	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.16	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 59 lb FT = 20%

## LUMBER-

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

**BRACING-**TOP CHORD

**BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 4-5 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-10-6.

(lb) - Max Horz 1=219(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-141(LC 12)

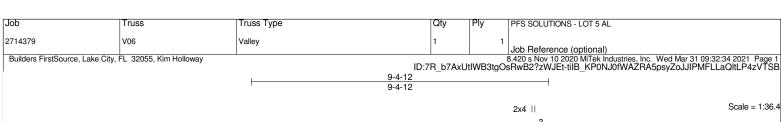
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=432(LC 19), 7=370(LC 19)

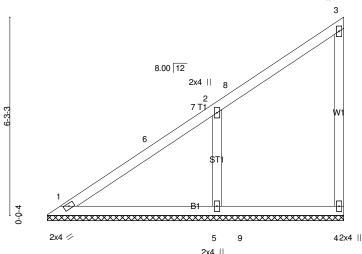
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-8=-267/128, 2-8=-253/143

# NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-9-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7 = 141.





LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.26	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) n/a - n/a 999	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	, ,	Weight: 43 lb FT = 20%

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=146/9-4-6, 4=97/9-4-6, 5=405/9-4-6

Max Horz 1=179(LC 12)

Max Uplift4=-27(LC 14), 5=-170(LC 12)

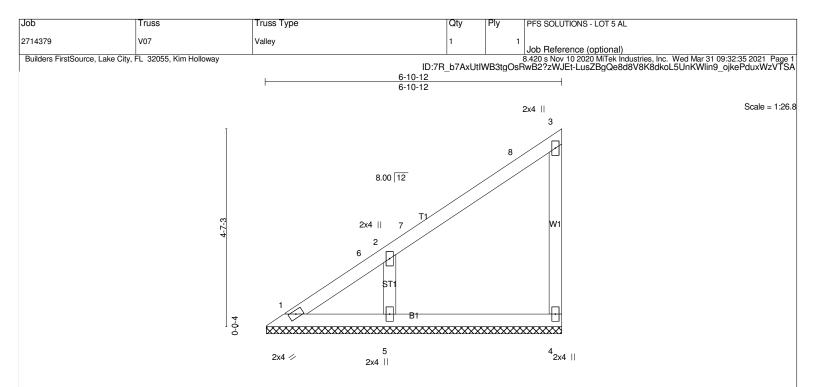
Max Grav 1=162(LC 20), 4=148(LC 19), 5=527(LC 19)

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

WEBS 2-5=-308/237

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-3-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=170.



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 0.16	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.12	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 30 lb FT = 20%

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=46/6-10-6, 4=115/6-10-6, 5=302/6-10-6

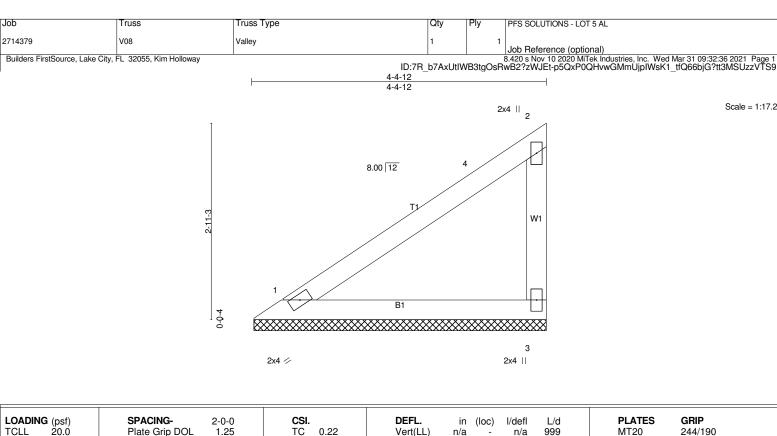
Max Horz 1=139(LC 12)

Max Uplift1=-2(LC 10), 4=-46(LC 12), 5=-142(LC 12) Max Grav 1=71(LC 21), 4=121(LC 19), 5=316(LC 19)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-9-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=142.



RIP
4/190
FT = 20%

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 4-4-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=139/4-4-6, 3=139/4-4-6

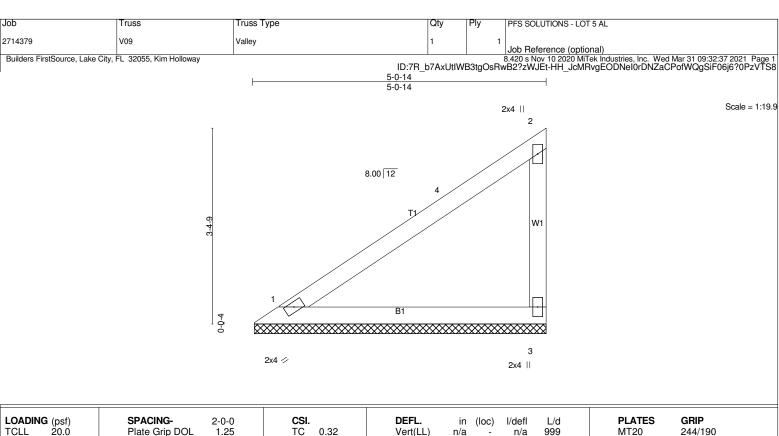
Max Horz 1=86(LC 12)

Max Uplift1=-9(LC 12), 3=-67(LC 12) Max Grav 1=139(LC 1), 3=146(LC 19)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-3-0 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) n/	'a -	n/a	999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.24	Vert(CT) n/	'a -	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	0	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P	, ,				Weight: 20 lb FT = 20%

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

### **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purlins, except

end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

**BOT CHORD** 

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=164/5-0-8, 3=164/5-0-8

Max Horz 1=102(LC 12)

Max Uplift1=-10(LC 12), 3=-78(LC 12) Max Grav 1=164(LC 1), 3=172(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-11-2 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.