



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

RE: 1459442 -

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

Site Information:

Customer Info: Lana Pavlyuchenko Project Name: Khomich Res Model: Custom
Lot/Block: Lot# _____ Subdivision: NA
Address: Khomich Res, Lot# _____
City: City _____ 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: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 55.0 psf Floor Load: 55.0 psf

This package includes 168 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	T24733539	A1	7/20/21	23	T24733561	B6	7/20/21
2	T24733540	A2	7/20/21	24	T24733562	B7	7/20/21
3	T24733541	A3	7/20/21	25	T24733563	B8	7/20/21
4	T24733542	A4	7/20/21	26	T24733564	B9	7/20/21
5	T24733543	A5	7/20/21	27	T24733565	B10	7/20/21
6	T24733544	A6	7/20/21	28	T24733566	C1	7/20/21
7	T24733545	A7	7/20/21	29	T24733567	C1C	7/20/21
8	T24733546	A8	7/20/21	30	T24733568	C1D	7/20/21
9	T24733547	A9G	7/20/21	31	T24733569	C1E	7/20/21
10	T24733548	A10	7/20/21	32	T24733570	C1P	7/20/21
11	T24733549	A11	7/20/21	33	T24733571	C1S	7/20/21
12	T24733550	A12	7/20/21	34	T24733572	C1W	7/20/21
13	T24733551	A13G	7/20/21	35	T24733573	C2S	7/20/21
14	T24733552	A14	7/20/21	36	T24733574	C3	7/20/21
15	T24733553	A15	7/20/21	37	T24733575	C3D	7/20/21
16	T24733554	A16	7/20/21	38	T24733576	C3M	7/20/21
17	T24733555	A17	7/20/21	39	T24733577	C5	7/20/21
18	T24733556	B1	7/20/21	40	T24733578	C14	7/20/21
19	T24733557	B2	7/20/21	41	T24733579	C34	7/20/21
20	T24733558	B3	7/20/21	42	T24733580	C54	7/20/21
21	T24733559	B4	7/20/21	43	T24733581	D1	7/20/21
22	T24733560	B5	7/20/21	44	T24733582	D2	7/20/21



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 (Lady Lake, FL).

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2023.



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

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

July 20,2021



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

RE: 1459442 -

Site Information:

Customer Info: Lana Pavlyuchenko Project Name: Khomich Res Model: Custom
 Lot/Block: Lot# _____ Subdivision: NA
 Address: Khomich Res, Lot# _____
 City: City _____ State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
45	T24733583	D3	7/20/21	102	T24733640	J6	7/20/21
46	T24733584	D4	7/20/21	103	T24733641	J7	7/20/21
47	T24733585	D5	7/20/21	104	T24733642	J7G	7/20/21
48	T24733586	D6	7/20/21	105	T24733643	J7H	7/20/21
49	T24733587	D7	7/20/21	106	T24733644	J8X	7/20/21
50	T24733588	D8	7/20/21	107	T24733645	J24	7/20/21
51	T24733589	D9	7/20/21	108	T24733646	J31	7/20/21
52	T24733590	D10	7/20/21	109	T24733647	J74	7/20/21
53	T24733591	D11	7/20/21	110	T24733648	J82	7/20/21
54	T24733592	D12	7/20/21	111	T24733649	J83	7/20/21
55	T24733593	D13	7/20/21	112	T24733650	J84	7/20/21
56	T24733594	D14	7/20/21	113	T24733651	K1	7/20/21
57	T24733595	D15	7/20/21	114	T24733652	K2	7/20/21
58	T24733596	D16	7/20/21	115	T24733653	K3G	7/20/21
59	T24733597	DG1	7/20/21	116	T24733654	L1G	7/20/21
60	T24733598	FG1	7/20/21	117	T24733655	L2	7/20/21
61	T24733599	FG2	7/20/21	118	T24733656	L3	7/20/21
62	T24733600	FG3	7/20/21	119	T24733657	L4	7/20/21
63	T24733601	FG4	7/20/21	120	T24733658	L5G	7/20/21
64	T24733602	FG5	7/20/21	121	T24733659	L6	7/20/21
65	T24733603	FL1	7/20/21	122	T24733660	L7	7/20/21
66	T24733604	FL2	7/20/21	123	T24733661	L8	7/20/21
67	T24733605	FL3	7/20/21	124	T24733662	L9	7/20/21
68	T24733606	FL4	7/20/21	125	T24733663	LG1	7/20/21
69	T24733607	FL5	7/20/21	126	T24733664	M1	7/20/21
70	T24733608	FL6	7/20/21	127	T24733665	M1G	7/20/21
71	T24733609	FL7	7/20/21	128	T24733666	M2	7/20/21
72	T24733610	FL8	7/20/21	129	T24733667	N1G	7/20/21
73	T24733611	FL9	7/20/21	130	T24733668	N2	7/20/21
74	T24733612	FL10	7/20/21	131	T24733669	P1	7/20/21
75	T24733613	FL11	7/20/21	132	T24733670	R1S	7/20/21
76	T24733614	FL12	7/20/21	133	T24733671	R1W	7/20/21
77	T24733615	FL13	7/20/21	134	T24733672	R2C	7/20/21
78	T24733616	FL14	7/20/21	135	T24733673	R2S	7/20/21
79	T24733617	FL15	7/20/21	136	T24733674	R2W	7/20/21
80	T24733618	FL16	7/20/21	137	T24733675	R3A	7/20/21
81	T24733619	FX1	7/20/21	138	T24733676	R3E	7/20/21
82	T24733620	G1G	7/20/21	139	T24733677	R5	7/20/21
83	T24733621	G2A	7/20/21	140	T24733678	R5D	7/20/21
84	T24733622	G3G	7/20/21	141	T24733679	R5M	7/20/21
85	T24733623	G4	7/20/21	142	T24733680	R5P	7/20/21
86	T24733624	G5X	7/20/21	143	T24733681	R7	7/20/21
87	T24733625	G6G	7/20/21	144	T24733682	R74	7/20/21
88	T24733626	J1H	7/20/21	145	T24733683	S1G	7/20/21
89	T24733627	J2C	7/20/21	146	T24733684	S2G	7/20/21
90	T24733628	J2E	7/20/21	147	T24733685	T1G	7/20/21
91	T24733629	J2W	7/20/21	148	T24733686	VA1	7/20/21
92	T24733630	J3	7/20/21	149	T24733687	VA2	7/20/21
93	T24733631	J3C	7/20/21	150	T24733688	VA3	7/20/21
94	T24733632	J3W	7/20/21	151	T24733689	VB1	7/20/21
95	T24733633	J3X	7/20/21	152	T24733690	VB2	7/20/21
96	T24733634	J4C	7/20/21	153	T24733691	VB3	7/20/21
97	T24733635	J5	7/20/21	154	T24733692	VB4	7/20/21
98	T24733636	J5D	7/20/21	155	T24733693	VC1	7/20/21
99	T24733637	J5G	7/20/21	156	T24733694	VC2	7/20/21
100	T24733638	J5M	7/20/21	157	T24733695	VK1	7/20/21
101	T24733639	J5W	7/20/21	158	T24733696	VK2	7/20/21



RE: 1459442 -

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

Site Information:

Customer Info: Lana Pavlyuchenko Project Name: Khomich Res Model: Custom
Lot/Block: Lot# _____ Subdivision: NA
Address: Khomich Res, Lot# _____
City: City _____ State: FL

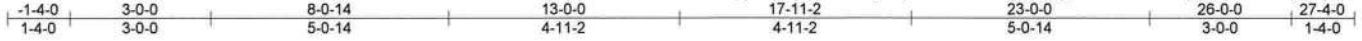
No.	Seal#	Truss Name	Date
159	T24733697	VL1	7/20/21
160	T24733698	VL2	7/20/21
161	T24733699	VL3	7/20/21
162	T24733700	VM1	7/20/21
163	T24733701	VM2	7/20/21
164	T24733702	W1G	7/20/21
165	T24733703	W2	7/20/21
166	T24733704	W3G	7/20/21
167	T24733705	Z1G	7/20/21
168	T24733706	Z2G	7/20/21

Job 1459442	Truss A1	Truss Type HIP GIRDER	Qty 1	Ply 2	Job Reference (optional)	T24733539
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:49 2021 Page 1

ID:XJKHpyKrMOKGaZufSxtpWyxY11-UJTHDAqeXgU_wSGO4bnMxRV_p74pSaHV3ZjJs6ywQT8



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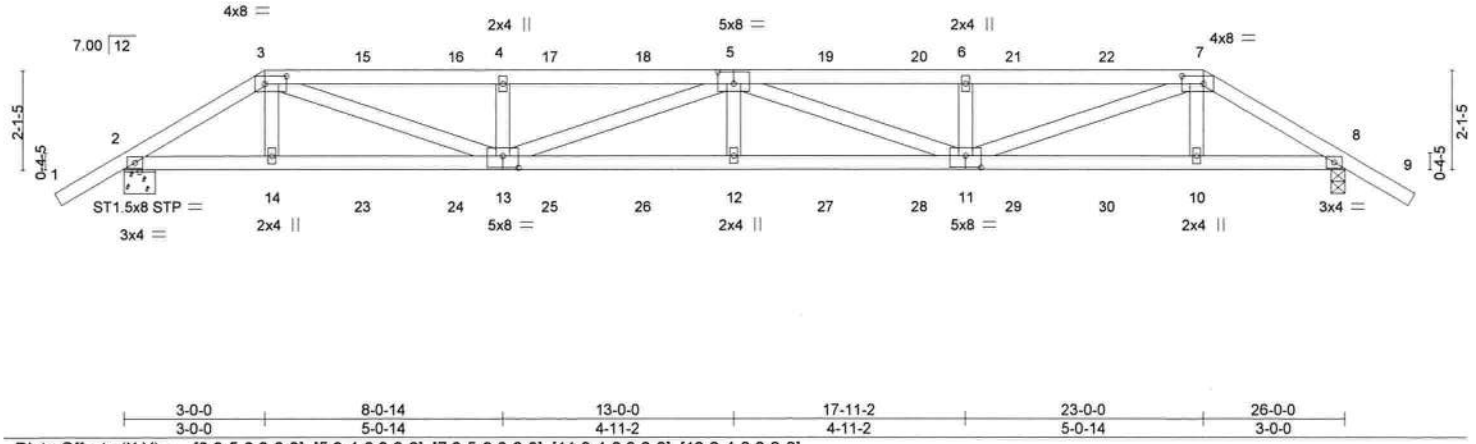


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0], [5:0-4-0,0-3-0], [7:0-5-8,0-2-0], [11:0-4-0,0-3-0], [13:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.13	12	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.37	12	>833		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.06	8	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 248 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 8=0-3-8
Max Horz 2=-52(LC 6)
Max Uplift 2=-251(LC 8), 8=-243(LC 8)
Max Grav 2=1541(LC 1), 8=1522(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2255/303, 3-4=-4245/567, 4-5=-4245/567, 5-6=-4302/576, 6-7=-4302/576, 7-8=-2359/316
BOT CHORD 2-14=-209/1817, 13-14=-205/1826, 12-13=-563/5010, 11-12=-563/5010, 10-11=-227/1945, 8-10=-231/1936
WEBS 3-13=-333/2569, 4-13=-469/151, 5-13=-817/116, 5-11=-754/109, 6-11=-469/151, 7-11=-325/2504

NOTES-

- 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: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 243 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb up at 3-0-0, 34 lb up at 5-0-12, 34 lb up at 7-0-12, 34 lb up at 9-0-12, 34 lb up at 11-0-12, 34 lb up at 13-0-12, 34 lb up at 14-11-4, 34 lb up at 16-11-4, 34 lb up at 18-11-4, and 34 lb up at 20-11-4, and 164 lb up at 23-0-0 on top chord, and 34 lb down at 3-0-0, 16 lb down at 5-0-12, 16 lb down at 7-0-12, 16 lb down at 9-0-12, 16 lb down at 11-0-12, 16 lb down at 13-0-12, 16 lb down at 14-11-4, 16 lb down at 16-11-4, 16 lb down at 18-11-4, and 16 lb down at 20-11-4, and 34 lb down at 22-11-4 on bottom chord. The design/selection of connection device(s) is the responsibility of others.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

Job 1459442	Truss A1	Truss Type HIP GIRDER	Qty 1	Ply 2	Job Reference (optional) T24733539
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:50 2021 Page 2
ID:XJKHpyKrMOkGaZufSxqtPWyxY11-zV1fQWrGl_crXcqbeJlbUf29ZXQ2B1XfIDTsOZywQT7

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-7=-90, 7-9=-90, 2-8=-20

Concentrated Loads (lb)

Vert: 3=73(B) 7=73(B) 14=-17(B) 12=-8(B) 10=-17(B) 23=-8(B) 24=-8(B) 25=-8(B) 26=-8(B) 27=-8(B) 28=-8(B) 29=-8(B) 30=-8(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 38610

Job	Truss	Truss Type	Qty	Ply	T24733540
1459442	A2	Hip	1	1	

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:02 2021 Page 1

ID:XJKHpyKrMokGaZufSxqtpWyxYI1-cplByd_oTg78zSluLqWQzBY8VMVV?RAQ24NVosywQSx

Job Reference (optional)



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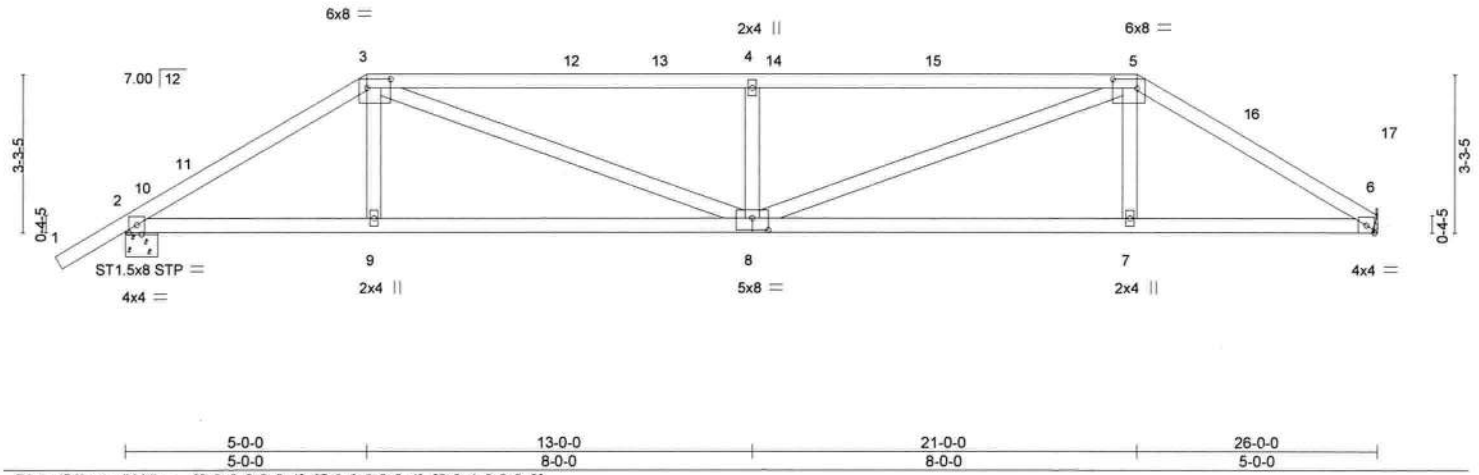


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-6-0,0-2-4], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.11	8	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.32	8-9	>955	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.08	6	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH							
								Weight: 118 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-8-0
Max Horz 2=71(LC 11)
Max Uplift 6=-152(LC 12), 2=-218(LC 12)
Max Grav 6=1403(LC 1), 2=1570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2303/232, 3-4=-3223/390, 4-5=-3223/390, 5-6=-2402/256
BOT CHORD 2-9=-141/1850, 8-9=-138/1857, 7-8=-165/1976, 6-7=-167/1968
WEBS 3-9=0/278, 3-8=-184/1509, 4-8=-821/190, 5-8=-157/1402, 5-7=0/294

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior(1) 9-2-15 to 21-0-0, Exterior(2R) 21-0-0 to 25-2-15, Interior(1) 25-2-15 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 6 and 218 lb uplift at joint 2.



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

July 20,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss A3	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T24733541
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:03 2021 Page 1

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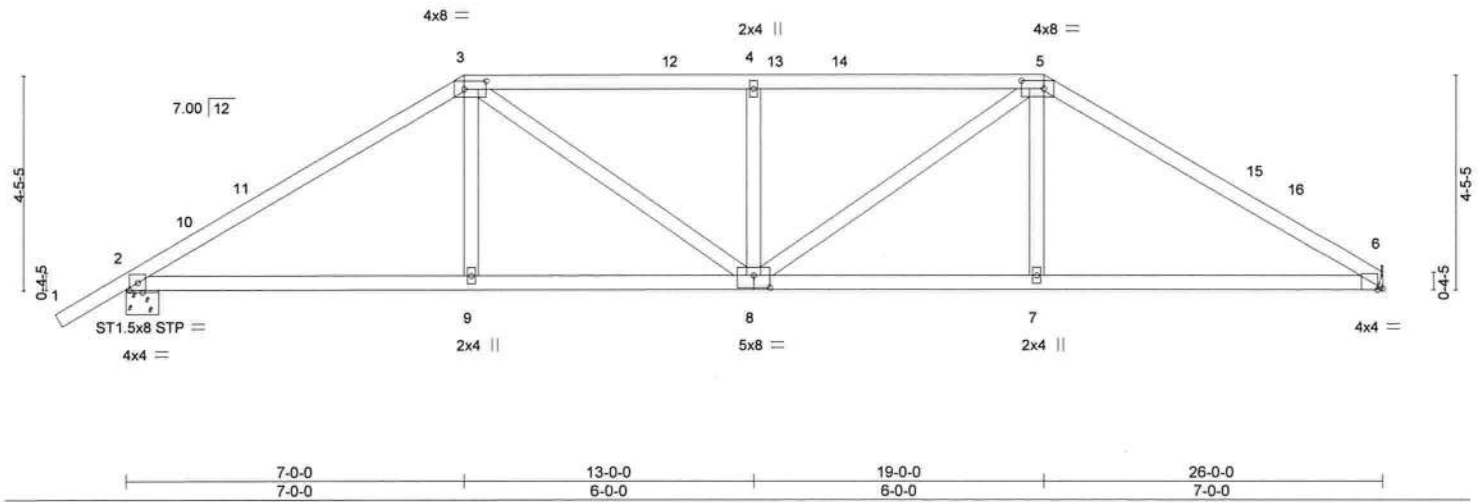


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0], [5:0-5-8,0-2-0], [6:0-1-4,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.87	Vert(LL) -0.08 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.26	Vert(CT) -0.24 6-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.07 6 n/a n/a	Weight: 121 lb	FT = 20%
	Code FBC2020/TPI2014				

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 3-5: 2x4 SP No.2, 5-6: 2x4 SP M 31
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 6=Mechanical, 2=0-8-0
 Max Horz 2=94(LC 11)
 Max Uplift 6=-152(LC 12), 2=-218(LC 12)
 Max Grav 6=1403(LC 1), 2=1570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2189/232, 3-4=-2227/297, 4-5=-2227/297, 5-6=-2241/245
 BOT CHORD 2-9=-120/1721, 8-9=-118/1727, 7-8=-134/1796, 6-7=-135/1789
 WEBS 3-9=0/299, 3-8=-80/690, 4-8=-581/136, 5-8=-81/621, 5-7=0/312

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.; GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 19-0-0, Exterior(2R) 19-0-0 to 23-2-15, Interior(1) 23-2-15 to 25-11-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 6 and 218 lb uplift at joint 2.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd, Tampa FL 33610
 Date: July 20,2021

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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 Tampa, FL 33610

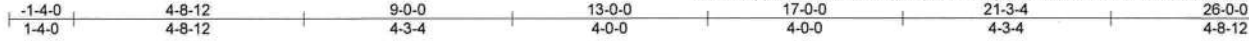
Job 1459442	Truss A4	Truss Type Hip	Qty 1	Ply 1	T24733542
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

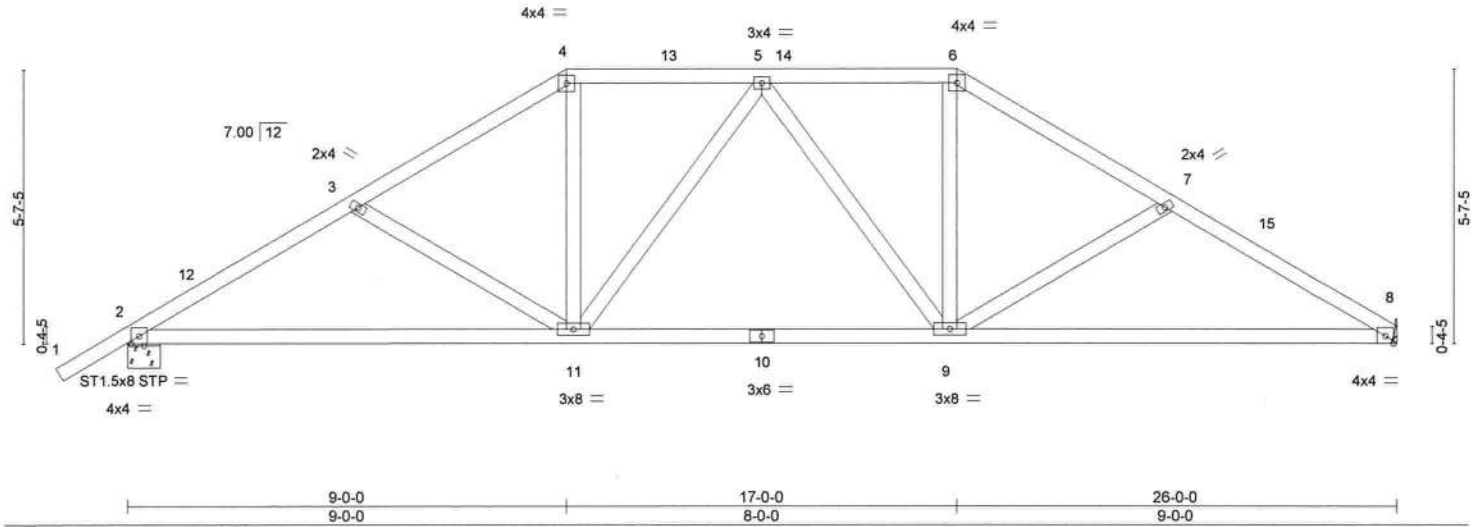
8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:04 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-YCtyMI027HnrDmvHTFYu2cdVwA8STPbjwOsclywQSV

Job Reference (optional)



Scale = 1:45.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.16	8-9	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.40	8-9	>778		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.08	8	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 133 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-8-0
Max Horz 2=118(LC 11)
Max Uplift 8=152(LC 12), 2=218(LC 12)
Max Grav 8=1403(LC 1), 2=1570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2245/266, 3-4=1885/233, 4-5=1547/230, 5-6=1581/237, 6-7=1927/242, 7-8=2326/288
BOT CHORD 2-11=183/1816, 9-11=110/1701, 8-9=199/1943
WEBS 3-11=344/116, 4-11=30/561, 5-11=342/68, 5-9=293/67, 6-9=38/582, 7-9=448/136

- 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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 9-0-0, Exterior(2R) 9-0-0 to 13-0-0, Interior(1) 13-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-4-15, Interior(1) 21-4-15 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 8 and 218 lb uplift at joint 2.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

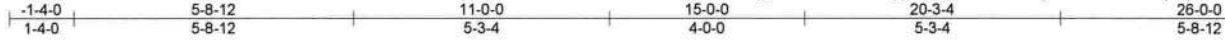
Job 1459442	Truss A5	Truss Type Hip	Qty 1	Ply 1	T24733543
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:05 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqpWyxYI1-0ORKae0gmbVirvUT0z47bpAglaWLCS2sk2b9PBywQSu

Job Reference (optional)



Scale = 1:45.5

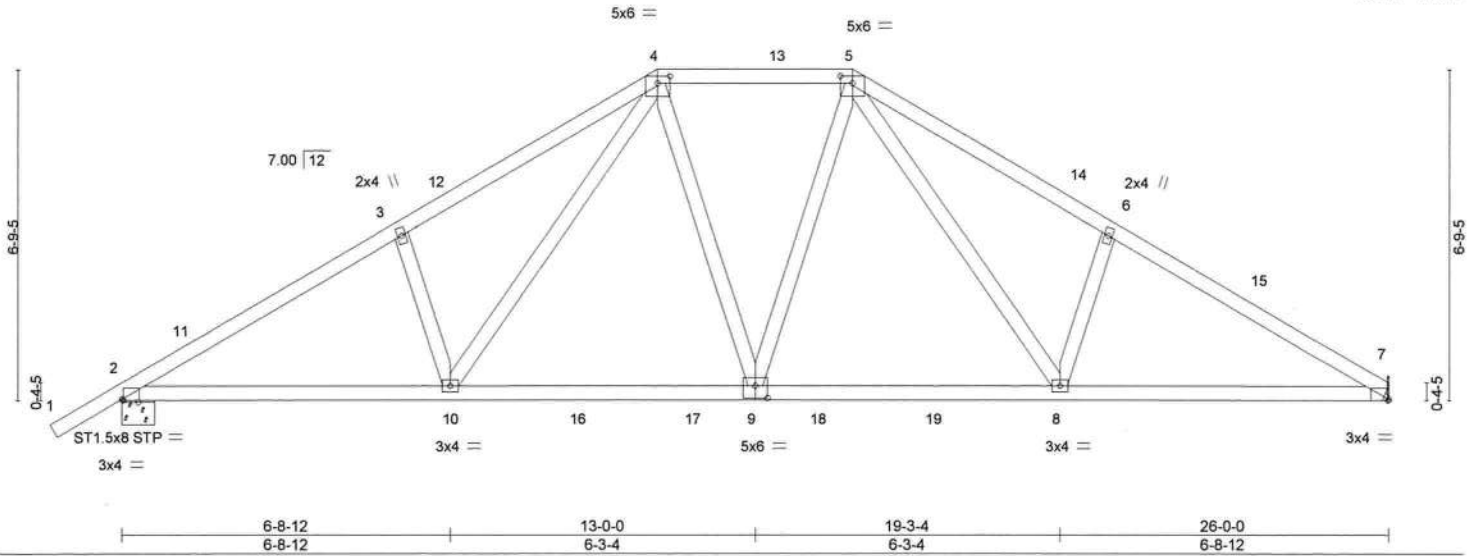


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [4:0-3-0,0-1-12], [5:0-3-0,0-1-12], [7:0-0-4,Edge], [9:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.22	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.07	7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH							
								Weight: 137 lb	FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-8-0
 Max Horz 2=141(LC 11)
 Max Uplift 7=-152(LC 12), 2=-218(LC 12)
 Max Grav 7=1543(LC 18), 2=1696(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2444/248, 3-4=-2313/306, 4-5=-1523/235, 5-6=-2412/327, 6-7=-2509/267
 BOT CHORD 2-10=-160/2069, 9-10=-82/1532, 8-9=-64/1514, 7-8=-173/2079
 WEBS 3-10=-403/145, 4-10=-97/759, 5-8=-124/879, 6-8=-482/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 11-0-0, Exterior(2E) 11-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 7 and 218 lb uplift at joint 2.



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

July 20,2021

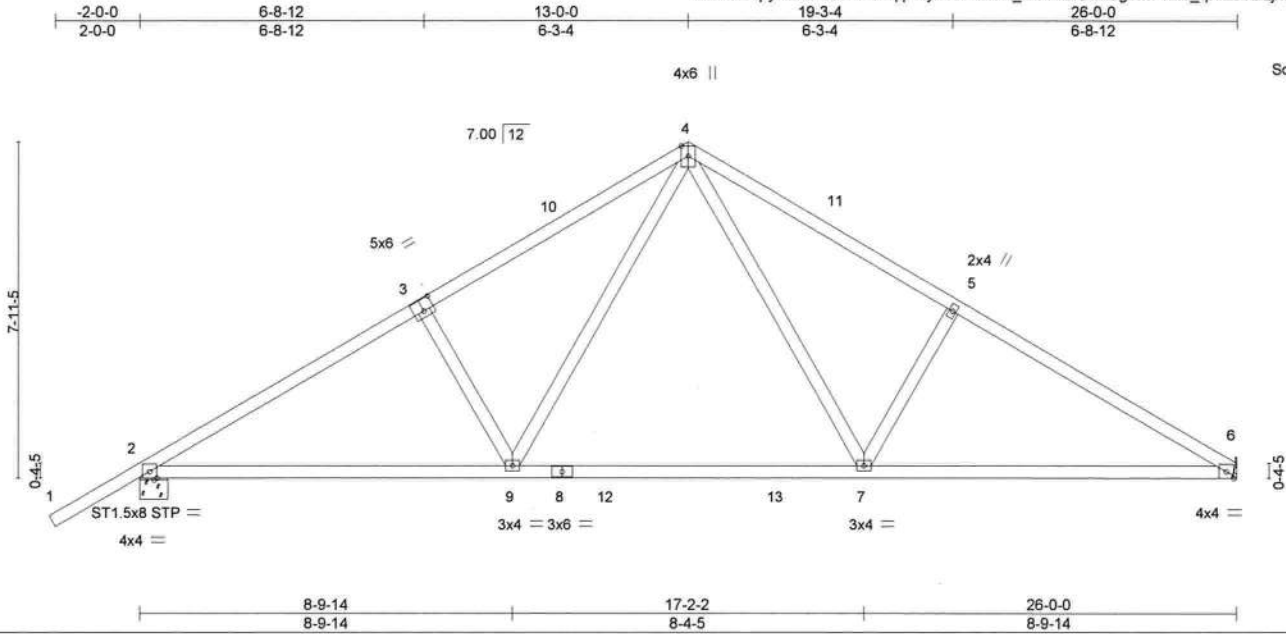
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII_7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 1459442	Truss A6	Truss Type Common	Qty 1	Ply 1	Job Reference (optional)	T24733544
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:06 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxY11-Va?in_1JXudZS33fagbM71ine_qHxla?ziLjxdywQSt



Scale = 1:52.6

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	25.0	Lumber DOL	1.25	BC	0.89	Vert(LL)	-0.16	7-9	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Vert(CT)	-0.37	6-7	>829		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH		Horz(CT)	0.07	6	n/a		
Weight: 125 lb											FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 6-8: 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-8-0
 Max Horz 2=170(LC 11)
 Max Uplift 6=-149(LC 12), 2=-244(LC 12)
 Max Grav 6=1530(LC 18), 2=1747(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2333/269, 3-4=-2085/303, 4-5=-2162/319, 5-6=-2389/287
 BOT CHORD 2-9=-172/1982, 7-9=-43/1324, 6-7=-180/1968
 WEBS 4-7=-113/998, 5-7=-567/187, 4-9=-92/875, 3-9=-495/175

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior(1) 0-11-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 6 and 244 lb uplift at joint 2.



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

July 20,2021

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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss A7	Truss Type Common	Qty 3	Ply 1	T24733545
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:07 2021 Page 1

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4x6 =

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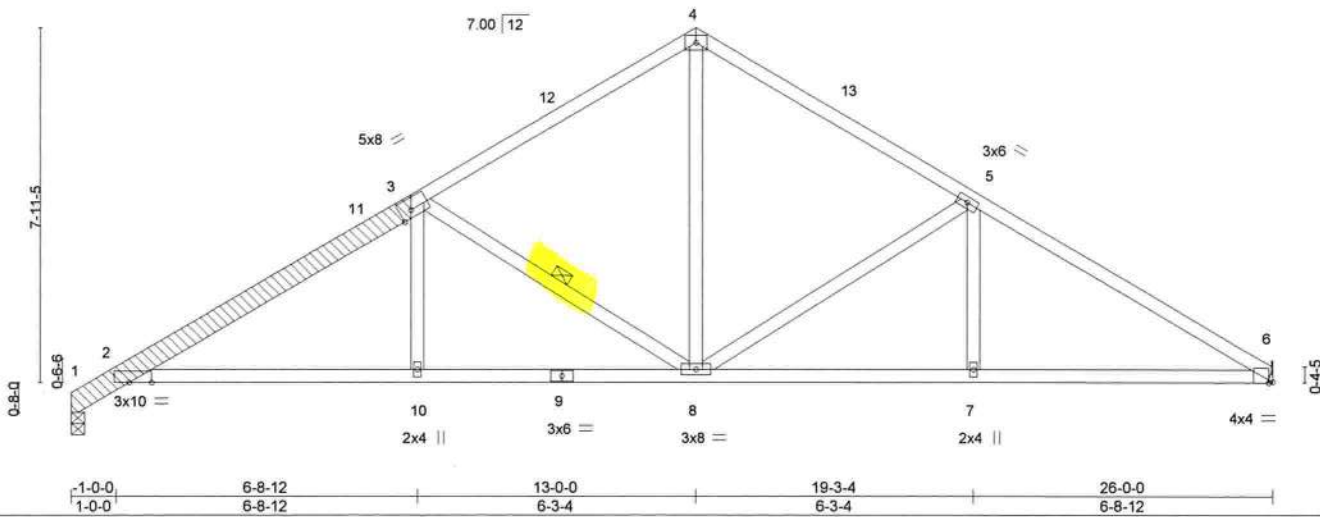


Plate Offsets (X,Y)-- [2:0-6-0,0-0-0], [3:0-3-0,Edge], [6:0-1-0,Edge]

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 0.83	Vert(LL)	-0.10	2-10	>999	240	244/180
TCDL 25.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.31	2-10	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	-0.15	1	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x6 SP M 26
LBR SCAB 1-3 2x6 SP M 26 one side

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-8

REACTIONS. (size) 6=Mechanical, 1=0-3-8
Max Horz 6=-158(LC 10)
Max Uplift 6=-161(LC 12), 1=-160(LC 12)
Max Grav 6=1474(LC 1), 1=1476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-632/82, 2-3=-2559/310, 3-4=-1698/272, 4-5=-1686/272, 5-6=-2441/297
BOT CHORD 2-10=-200/2194, 8-10=-199/2200, 7-8=-180/1982, 6-7=-180/1982
WEBS 4-8=-133/1055, 5-8=-798/170, 5-7=0/298, 3-8=-1029/198, 3-10=0/291

- NOTES-**
- Attached 9-0-1 scab 1 to 3, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-5-4 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -0-10-4 to 2-1-12, Interior(1) 2-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 6 and 160 lb uplift at joint 1.



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

July 20,2021

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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss A8	Truss Type Common	Qty 7	Ply 1	Job Reference (optional)	T24733546
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:08 2021 Page 1

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4x6 ||

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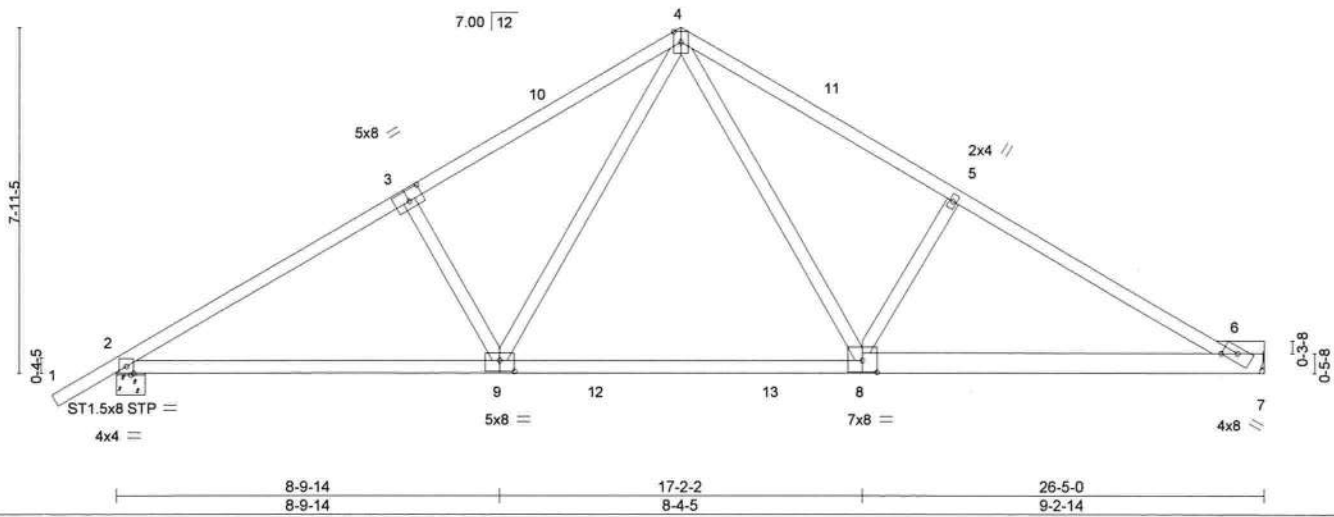


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [6:0-4-0,0-2-5], [8:0-4-0,0-3-4], [9:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.16	8-9	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.37	6-8	>847	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						Weight: 133 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 7-8: 2x6 SP M 26
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-8-0
 Max Horz 2=162(LC 11)
 Max Uplift 7=-141(LC 12), 2=-221(LC 12)
 Max Grav 7=1563(LC 18), 2=1714(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2408/280, 3-4=-2160/314, 4-5=-2299/333, 5-6=-2523/302
 BOT CHORD 2-9=-186/2051, 8-9=-54/1385, 6-8=-197/2090, 6-7=-59/567
 WEBS 4-8=-122/1115, 5-8=-567/187, 4-9=-96/884, 3-9=-507/178

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-9-15 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 7 and 221 lb uplift at joint 2.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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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Job 1459442	Truss A9G	Truss Type Roof Special Girder	Qty 1	Ply 2	Job Reference (optional)	T24733547
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:09 2021 Page 1

ID: XJKHpyKrMOkGaZufSxqlpWyxY11-v9grQ03Bqp?8JXnEFo83IfKJyBz28gaSfgZNYyywQSq



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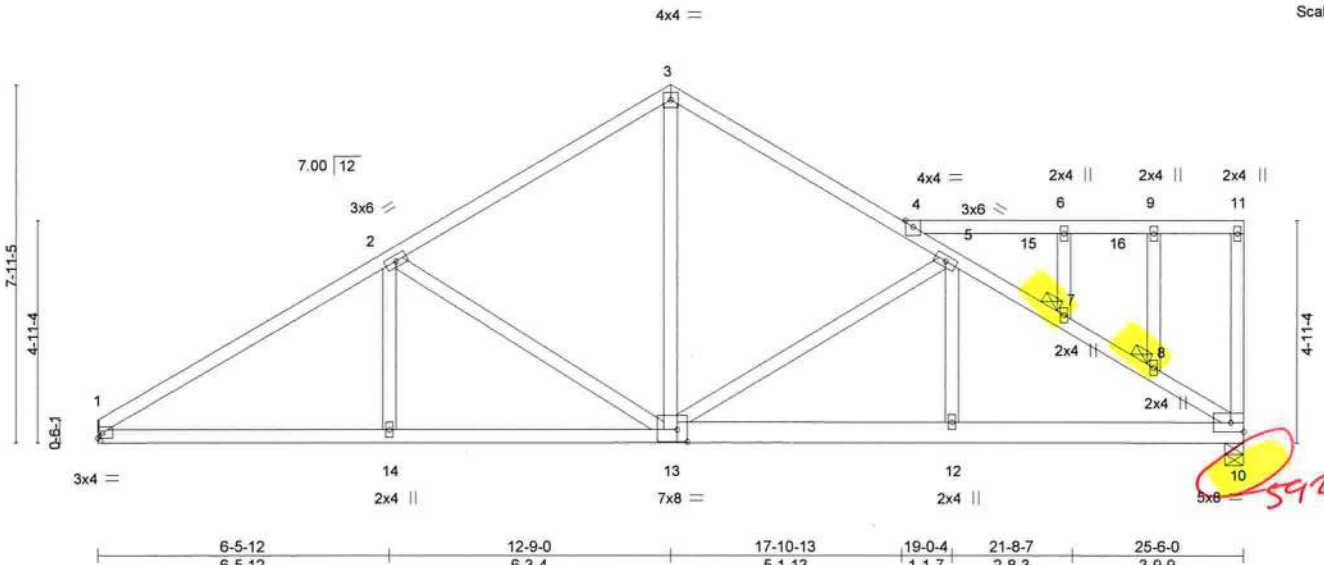


Plate Offsets (X,Y)-- [13:0-2-12,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.03	1-14	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.10	1-14	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.04	10	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 320 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 10-13: 2x6 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 8, 7

REACTIONS.

(size) 1=Mechanical, 10=5-0
 Max Horz 1=134(LC 8)
 Max Uplift 1=-179(LC 8), 10=-592(LC 8)
 Max Grav 1=1517(LC 1), 10=2384(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2480/306, 2-3=-1769/286, 3-4=-1686/284, 4-5=-1924/326, 5-7=-2551/418,
 7-8=-2796/486, 8-10=-2911/514
 BOT CHORD 1-14=-329/1996, 13-14=-329/1996, 12-13=-410/2389, 10-12=-410/2388
 WEBS 2-14=0/289, 2-13=-741/155, 3-13=-158/1104, 5-13=-1195/251, 5-12=0/285,
 6-7=-490/134

NOTES-

- 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: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 1 and 592 lb uplift at joint 10.
- 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) 251 lb down and 122 lb up at 17-10-6, 251 lb down and 118 lb up at 20-8-4, 251 lb down and 118 lb up at 22-8-4, and 254 lb down and 161 lb up at 25-4-4, and 266 lb down and 161 lb up at 25-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE IJ01-7473 rev 5/19/2020 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss A9G	Truss Type Roof Special Girder	Qty 1	Ply 2	T24733547 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:09 2021 Page 2
ID:XJKHpyKrMOkGaZufSxqtpWyxY11-v9grQ03Bqp?8JXnEFo83fKJyBz28gaSfgZNYyywQSq

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-11=-90, 1-10=-20

Concentrated Loads (lb)

Vert: 4=-215 10=-474(B=-234) 15=-215 16=-215

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

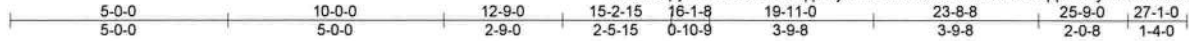
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 38610

Job 1459442	Truss A10	Truss Type Roof Special Girder	Qty 2	Ply 1	Job Reference (optional)	T24733548
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:51 2021 Page 1
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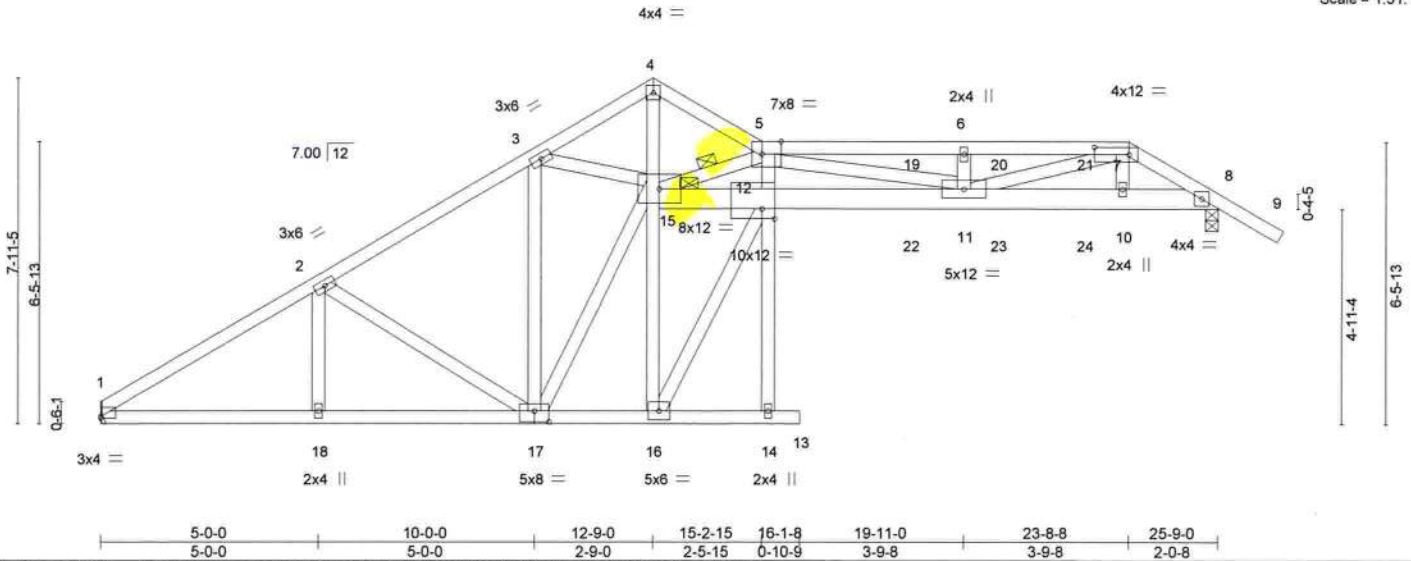


Plate Offsets (X,Y)-- [1:0-0-0,0-0-8], [5:0-5-4,Edge], [7:0-9-8,0-2-0], [12:0-3-8,0-2-12], [17:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.91	Vert(LL)	-0.26	13	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.70	13	>438		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.28	8	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-11-5 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 8-15: 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-11: 2x4 SP No.2	WEBS 1 Row at midpt 5-15
	JOINTS 1 Brace at Jt(s): 15

REACTIONS. (size) 1=Mechanical, 8=0-3-8
 Max Horz 1=-117(LC 30)
 Max Uplift 1=-150(LC 8), 8=-297(LC 8)
 Max Grav 1=1395(LC 1), 8=1424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2313/254, 2-3=-1769/242, 3-4=-2184/298, 4-5=-2273/310, 5-6=-4910/669,
 6-7=-4911/669, 7-8=-2373/401
 BOT CHORD 1-18=-271/1870, 17-18=-271/1870, 16-17=-97/803, 12-15=-669/5765, 11-12=-787/6782,
 10-11=-284/2016, 8-10=-286/1990
 WEBS 2-17=-536/119, 15-16=-1536/211, 4-15=-256/1960, 5-11=-1930/277, 6-11=-403/127,
 7-11=-333/3027, 7-10=0/251, 12-16=-220/1810, 3-17=-731/110, 15-17=-153/1240,
 3-15=-8/429, 5-12=-127/1414, 5-15=-5220/670

- 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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 1 and 297 lb uplift at joint 8.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 16 lb up at 18-8-4, 60 lb down and 16 lb up at 20-8-4, and 60 lb down and 16 lb up at 22-8-4, and 230 lb up at 23-8-8 on top chord, and 10 lb down at 18-8-4, 10 lb down at 20-8-4, and 10 lb down at 22-8-4, and 14 lb down at 23-8-8 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).



Joaquin Velez PE No.68182
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 Date: July 20,2021

LOAD CASE(S) Standard

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Job 1459442	Truss A10	Truss Type Roof Special Girder	Qty 2	Ply 1	T24733548 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:51 2021 Page 2
ID:XJKHpyKrMOKGaZufSxtpWyxYI1-Rib1esru3Hki9mPnC0qq1sbAyxmJwMDoWQCQx?ywQT6

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-90, 5-7=-90, 7-9=-90, 1-13=-20, 8-12=-20

Concentrated Loads (lb)

Vert: 7=145(B)

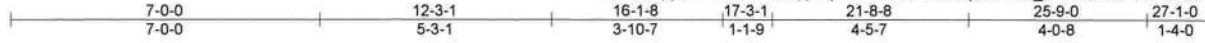
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply		T24733549
1459442	A11	Hip	2	1		

Job Reference (optional)
 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jul 20 09:55:28 2021 Page 1
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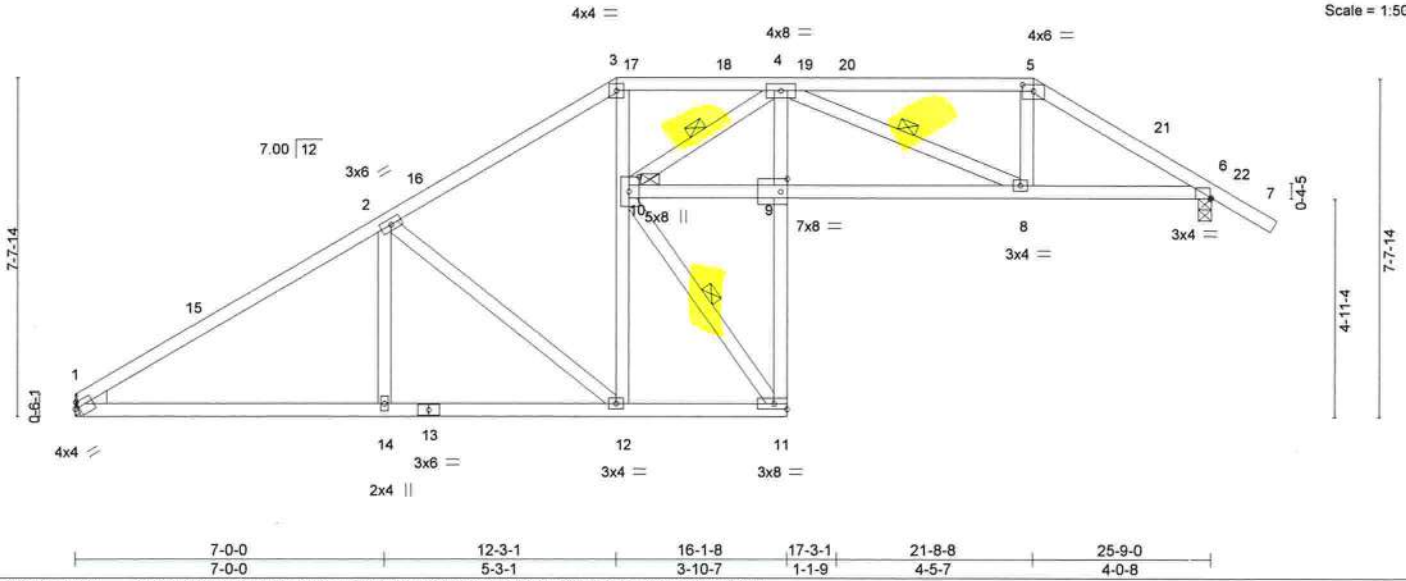


Plate Offsets (X,Y)--	[1:0-1-0,0-1-8], [5:0-3-0,0-1-12], [6:0-0-5,Edge], [9:0-1-12,0-3-8], [10:0-4-0,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.14	11	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.38	11	>800		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.22	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						
								Weight: 151 lb	FT = 20%

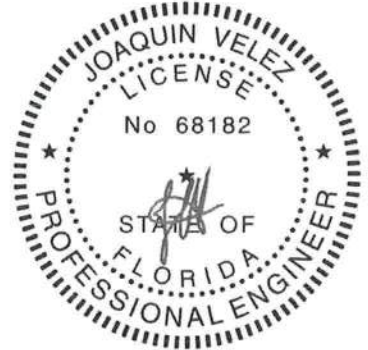
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except* 9-11: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	2-2-0 oc bracing: 8-9.
WEDGE	WEBS 1 Row at midpt 4-8, 10-11, 4-10
Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 10

REACTIONS. (lb/size) 1=1401/Mechanical, 6=1549/0-3-8
 Max Horz 1=111(LC 10)
 Max Uplift 1=144(LC 12), 6=218(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2226/220, 2-15=-2078/238, 2-16=-1552/207, 3-16=-1402/227, 3-17=-1250/226,
 17-18=-1249/226, 4-18=-1249/226, 4-19=-1997/244, 19-20=-1997/244, 5-20=-1998/243,
 5-21=-2294/255, 6-21=-2385/239
BOT CHORD 1-14=-238/1769, 13-14=-238/1769, 12-13=-238/1769, 11-12=-118/1203, 9-11=-151/1683,
 9-10=-334/3494, 8-9=-336/3506, 6-8=-138/1950
WEBS 2-14=0/302, 10-12=-50/523, 3-10=-39/408, 4-8=-1678/214, 5-8=-39/793, 10-11=-2030/198,
 2-12=-720/153, 4-9=-123/1718, 4-10=-2726/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 12-3-1, Exterior(2R) 12-3-1 to 16-5-15, Interior(1) 16-5-15 to 21-8-8, Exterior(2R) 21-8-8 to 25-11-7, Interior(1) 25-11-7 to 27-1-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 1 and 218 lb uplift at joint 6.

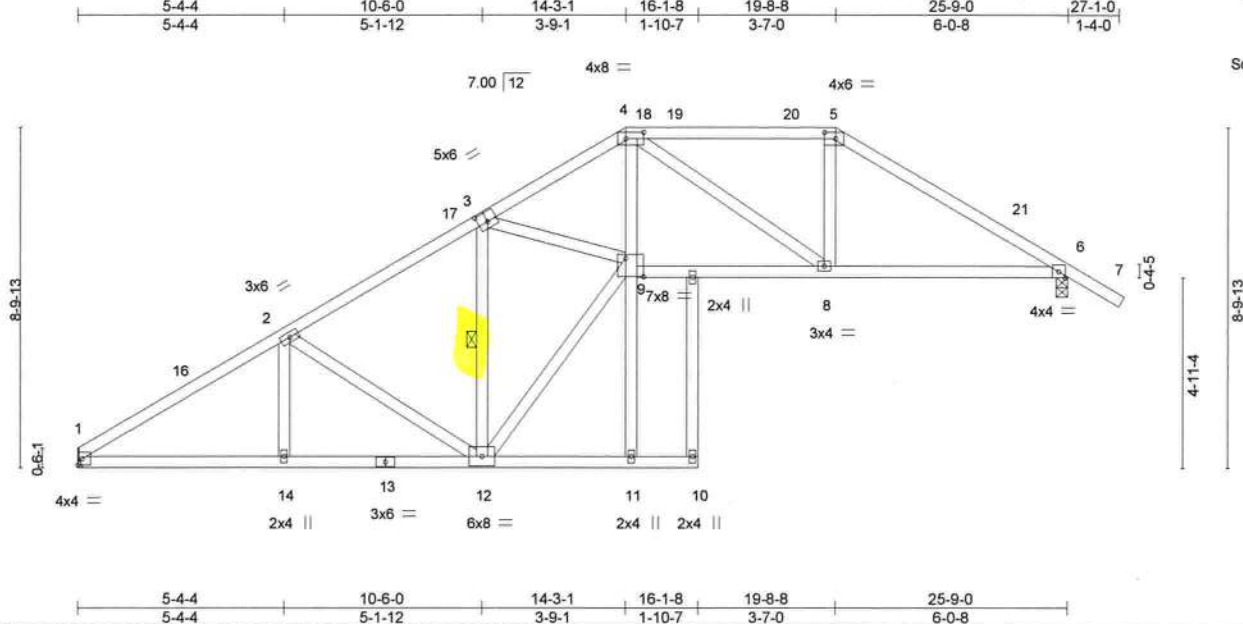
LOAD CASE(S) Standard



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

Job 1459442	Truss A12	Truss Type Hip	Qty 2	Ply 1	Job Reference (optional)	T24733550
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:55 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtpWyxY11-JTqYUDvP7WF7eNjYRsunBilv?Y5LsAFORVAd4mywQT2



Scale = 1:57.7

Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [4:0-5-8,0-2-0], [5:0-3-8,0-2-0], [9:0-5-8,0-5-12]
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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 0.72	Vert(LL)	-0.11	10	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.33	10	>930		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.18	6	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 156 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 10-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-12

REACTIONS. (size) 1=Mechanical, 6=0-3-8
 Max Horz 1=-134(LC 10)
 Max Uplift 1=-139(LC 12), 6=-209(LC 12)
 Max Grav 1=1415(LC 1), 6=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2334/233, 2-3=-1763/220, 3-4=-3216/351, 4-5=-1881/239, 5-6=-2312/237
 BOT CHORD 1-14=-251/1884, 12-14=-251/1884, 8-9=-197/2793, 6-8=-102/1856
 WEBS 2-12=-569/123, 3-12=-1522/180, 4-8=-1147/121, 5-8=-3/658, 4-9=-153/1809,
 9-12=-249/2380, 3-9=-56/1321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 14-3-1, Exterior(2R) 14-3-1 to 18-5-15, Interior(1) 18-5-15 to 19-8-8, Exterior(2R) 19-8-8 to 23-11-7, Interior(1) 23-11-7 to 27-1-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 1 and 209 lb uplift at joint 6.



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

July 20,2021

Job 1459442	Truss A13G	Truss Type Roof Special Girder	Qty 1	Ply 2	Job Reference (optional)	T24733551
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:56 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-nfOwhZv1tqN_FXIK7aP0kw14xyVsbk2Xg9wBcDywQT1



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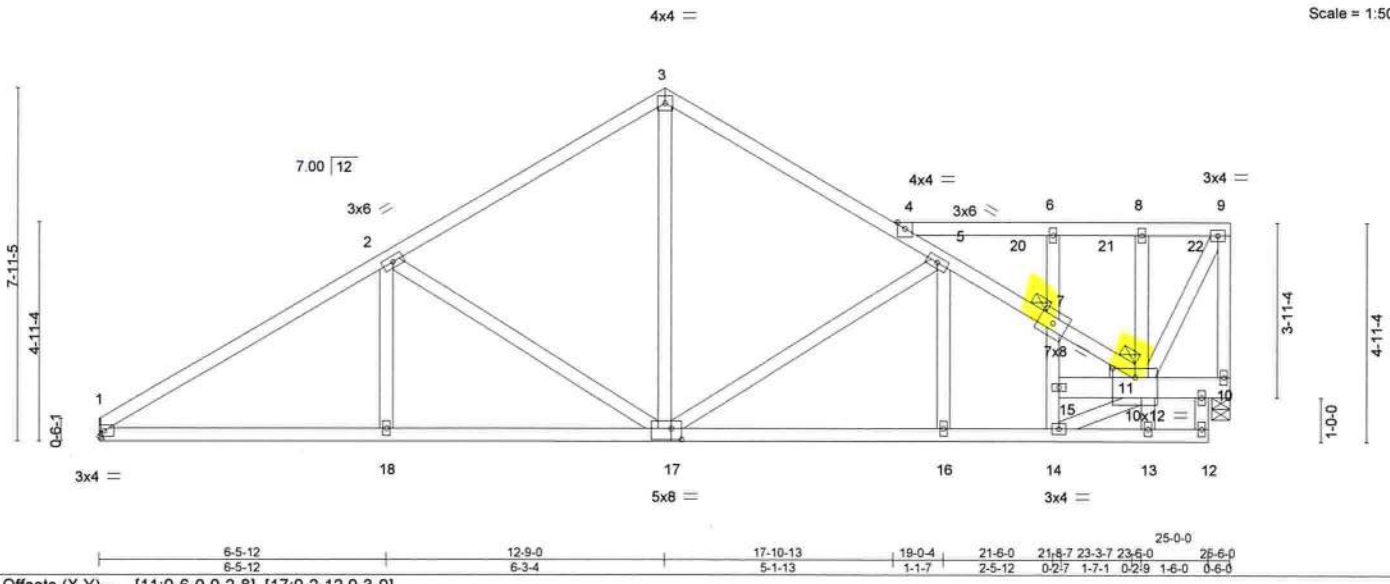


Plate Offsets (X,Y)--	[11:0-6-0,0-2-8], [17:0-2-12,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.06 16-17	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.17 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 336 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	10-15: 2x6 SP No.2		6-0-0 oc bracing: 13-14,
WEBS	2x4 SP No.3		10-0-0 oc bracing: 10-11
WEDGE		JOINTS	1 Brace at Jt(s): 7, 11
Right: 2x4 SP No.3			

REACTIONS.	(size) 1=Mechanical, 10=0-5-0
	Max Horz 1=134(LC 8)
	Max Uplift 1=181(LC 8), 10=569(LC 8)
	Max Grav 1=1524(LC 1), 10=2381(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2488/310, 2-3=-1782/291, 3-4=-1690/286, 4-5=-1269/213, 5-7=-1668/279, 7-11=-1864/340, 4-6=-719/123, 6-8=-719/123, 8-9=-716/128
BOT CHORD	1-18=-331/2002, 17-18=-331/2002, 16-17=-393/2240, 14-16=-393/2240
WEBS	2-18=0/284, 2-17=-734/151, 3-17=-149/1048, 5-17=-999/222, 6-7=-911/205, 14-15=-1037/195, 7-15=-557/94, 9-10=-1823/471, 11-14=-438/2560, 9-11=-258/1445

- NOTES-**
- 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: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 1 and 569 lb uplift at joint 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5-19-2020 BEFORE USE</p> <p>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</p>	<p>6904 Parke East Blvd. Tampa, FL 33610</p>
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Job 1459442	Truss A13G	Truss Type Roof Special Girder	Qty 1	Ply 2	T24733551 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:56 2021 Page 2
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NOTES-
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 251 lb down and 122 lb up at 17-10-6, 251 lb down and 118 lb up at 20-8-4, 251 lb down and 118 lb up at 22-8-4, and 237 lb down and 166 lb up at 24-8-4, and 266 lb down and 161 lb up at 25-4-4 on top 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=-90, 3-4=-90, 4-9=-90, 1-12=-20, 10-11=-20

Concentrated Loads (lb)

Vert: 4=-215 9=-240 20=-215 21=-215 22=-204(F)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

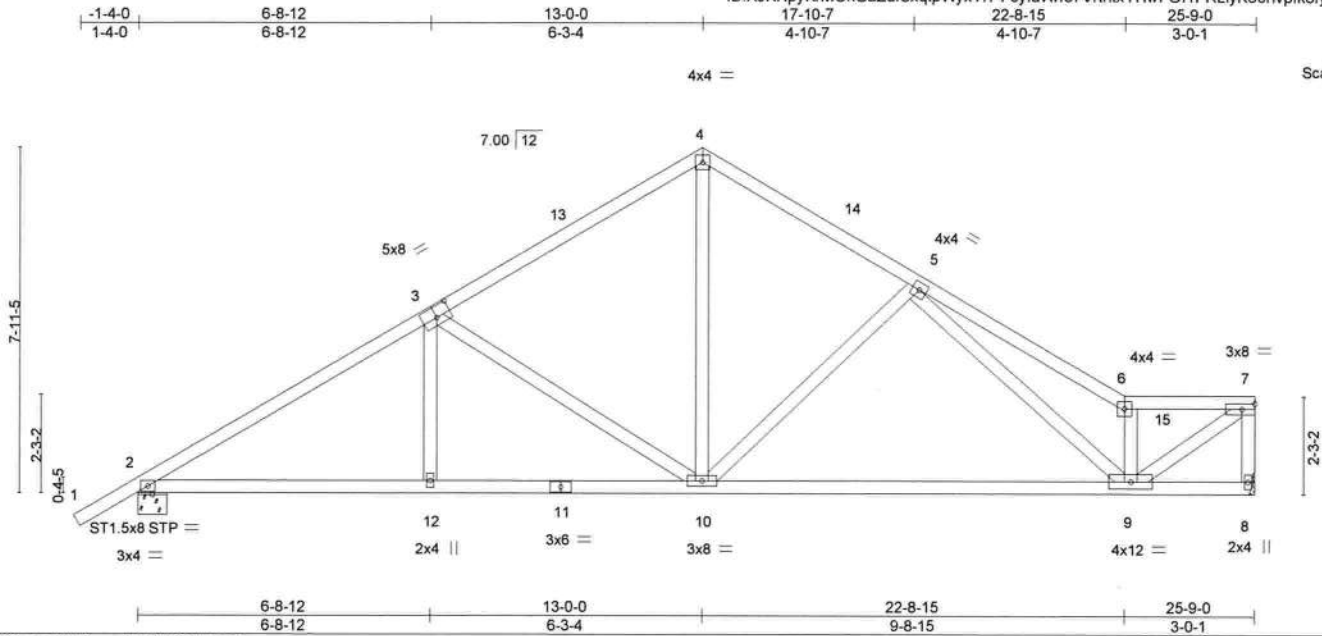


6904 Parke East Blvd.
Tampa, FL 38610

Job 1459442	Truss A14	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional)	T24733552
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:57 2021 Page 1
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Scale = 1:51.1

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	2-0-0	Plate Grip DOL	1.25	TC	0.72	in (loc)	l/defl	L/d	MT20	244/190
TCDL	25.0	Lumber DOL	1.25	BC	0.90	Vert(LL)	-0.22 9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Vert(CT)	-0.51 9-10	>590	180		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH		Horz(CT)	0.06 8	n/a	n/a		
										Weight: 140 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-8-0
Max Horz 2=144(LC 11)
Max Uplift 8=-152(LC 12), 2=-214(LC 12)
Max Grav 8=1385(LC 1), 2=1552(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2195/259, 3-4=-1522/239, 4-5=-1485/249, 5-6=-2266/273, 6-7=-1779/177, 7-8=-1393/146
BOT CHORD 2-12=-220/1746, 10-12=-220/1744, 9-10=-190/1579
WEBS 3-10=-689/164, 4-10=-118/926, 5-10=-570/157, 5-9=-6/503, 6-9=-1410/207, 7-9=-208/2166

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-7-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 8 and 214 lb uplift at joint 2.



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

July 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE (Mi-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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



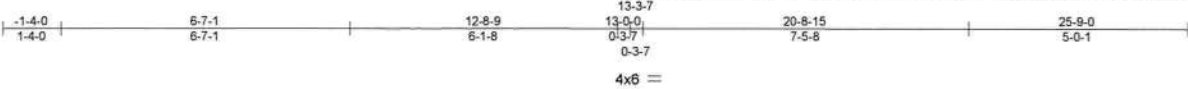
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss A15	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional)	T24733553
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:11:59 2021 Page 1

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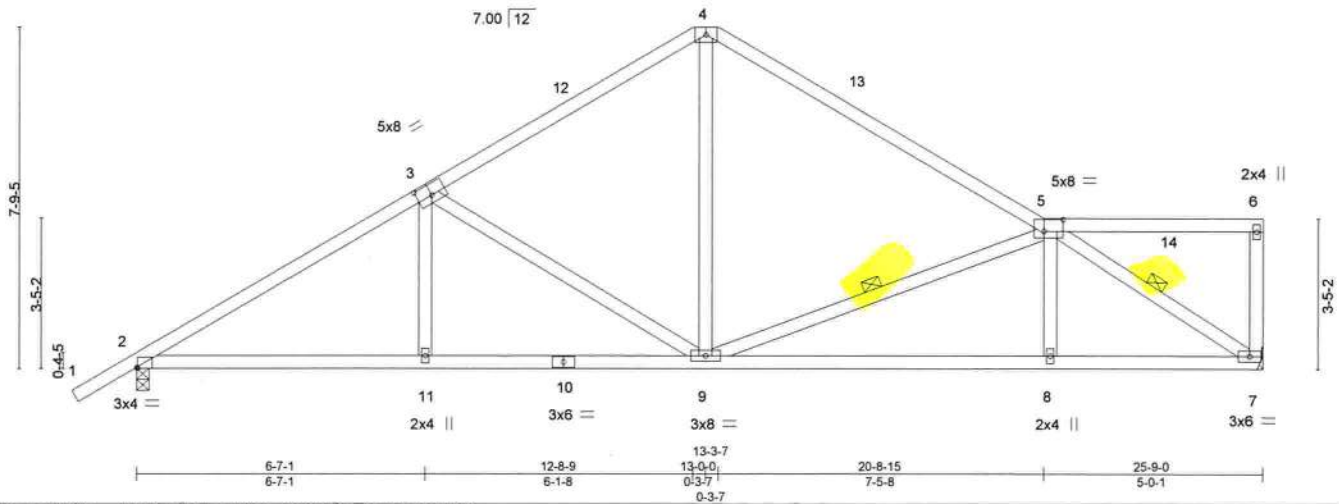


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [3:0-4-0,0-3-0], [5:0-5-4,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.10	8-9	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.28	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	-0.08	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 139 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 5-7

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
Max Horz 7=132(LC 11)
Max Uplift 7=-157(LC 12), 2=-204(LC 12)
Max Grav 7=1396(LC 1), 2=1544(LC 1)

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

TOP CHORD 2-3=-2258/257, 3-4=-1547/240, 4-5=-1568/229
BOT CHORD 2-11=-136/1815, 9-11=-137/1812, 8-9=-109/1844, 7-8=-106/1850
WEBS 3-11=0/270, 3-9=-736/159, 5-9=-710/123, 5-8=0/275, 5-7=-2166/263, 4-9=-64/814

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 25-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 7 and 204 lb uplift at joint 2.



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

July 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss A16	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T24733554
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:00 2021 Page 1

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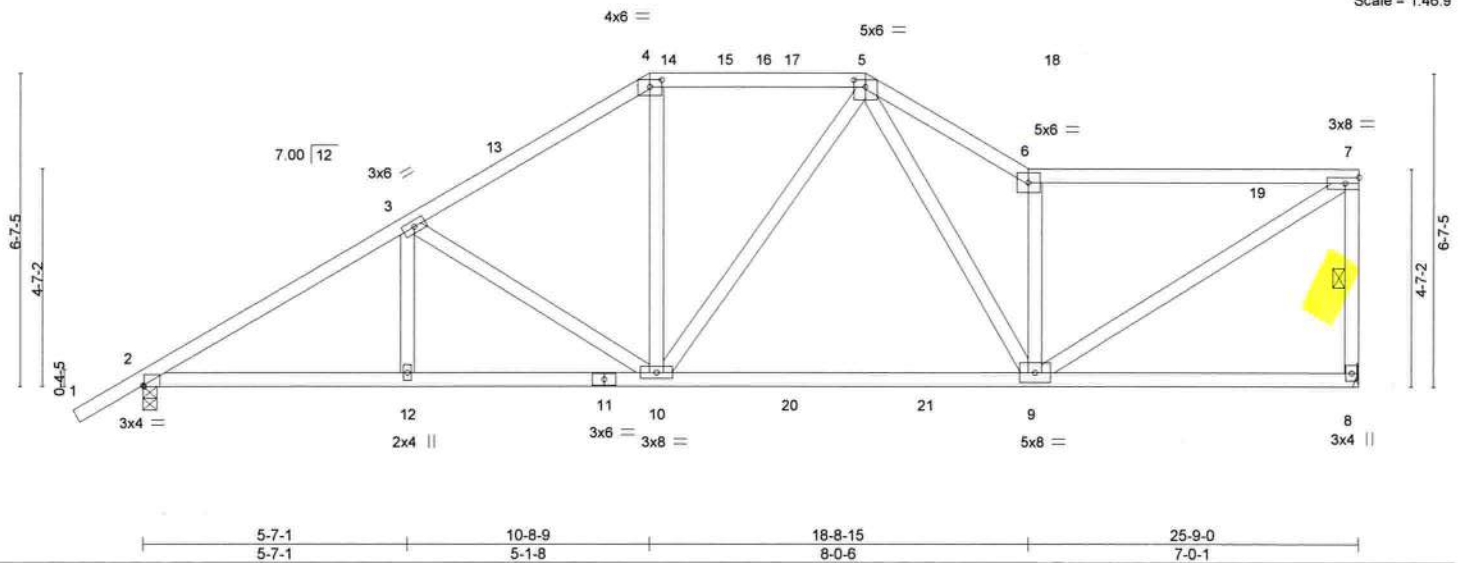


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [4:0-3-0,0-1-12], [5:0-3-0,0-1-12]

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 0.94	Vert(LL)	-0.17	9-10	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.35	9-10	>879		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	-0.05	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 149 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SP No.2	WEBS 1 Row at midpt 7-8
WEBS 2x4 SP No.3	

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 8=158(LC 12)
 Max Uplift 8=162(LC 12), 2=200(LC 12)
 Max Grav 8=1500(LC 17), 2=1665(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2483/272, 3-4=-1874/251, 4-5=-1539/253, 5-6=-2222/304, 6-7=-1807/213,
 7-8=-1403/201
 BOT CHORD 2-12=-158/2021, 10-12=-158/2021, 9-10=-39/1497
 WEBS 3-10=-643/136, 4-10=-15/508, 5-9=-75/823, 6-9=-1525/268, 7-9=-245/2090

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 10-8-9, Exterior(2R) 10-8-9 to 13-8-9, Interior(1) 13-8-9 to 15-3-7, Exterior(2R) 15-3-7 to 18-3-7, Interior(1) 18-3-7 to 25-7-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 8 and 200 lb uplift at joint 2.



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

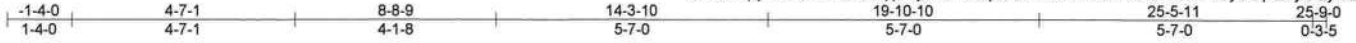
July 20,2021

Job 1459442	Truss A17	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	Job Reference (optional)	T24733555
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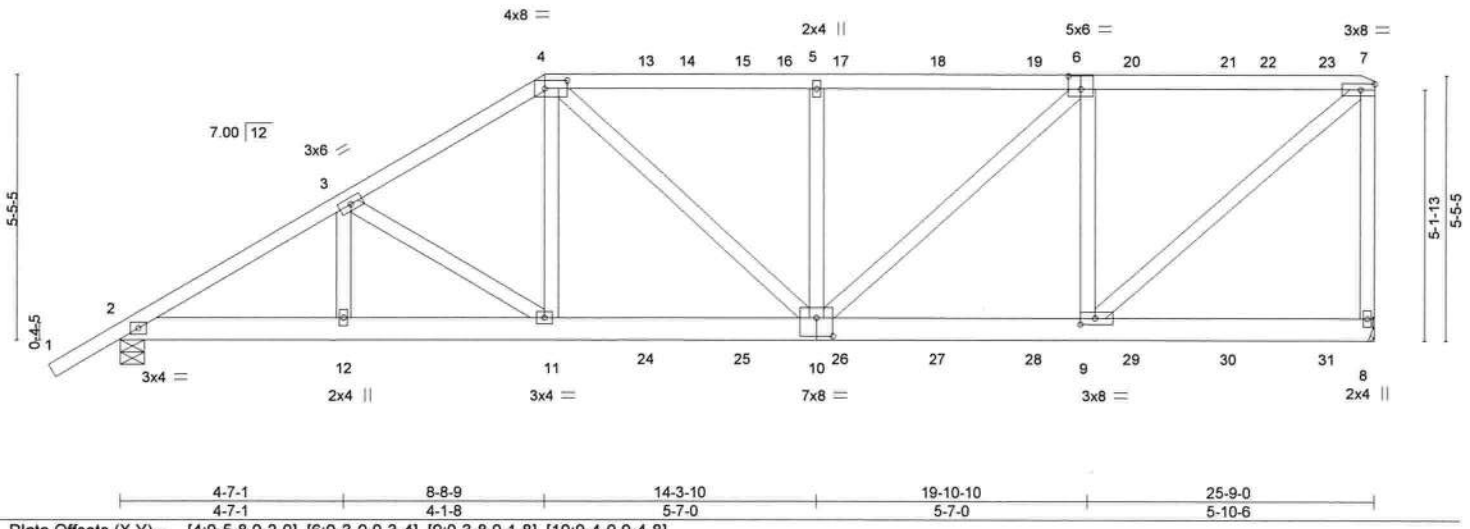
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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Scale = 1:45.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.05	10	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.15	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	-0.03	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 346 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-6-0, 8=Mechanical
 Max Horz 8=184(LC 8)
 Max Uplift 2=-213(LC 8), 8=-37(LC 5)
 Max Grav 2=2673(LC 1), 8=3018(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4425/240, 3-4=-4096/239, 4-5=-3845/112, 5-6=-3844/112, 6-7=-2737/49, 7-8=-2887/81
 BOT CHORD 2-12=-121/3689, 11-12=-121/3689, 10-11=-79/3495, 9-10=0/2798
 WEBS 3-11=-394/87, 4-11=-151/1126, 4-10=0/470, 5-10=-1064/74, 6-10=-107/1429, 6-9=-2126/159, 7-9=-62/3589

- NOTES-**
- 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.
 - 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.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2 and 37 lb uplift at joint 8.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 197 lb down at 10-9-5, 197 lb down at 12-9-5, 197 lb down at 14-9-5, 197 lb down at 16-9-5, 197 lb down at 18-9-5, 197 lb down at 20-9-5, and 197 lb down at 22-9-5, and 205 lb down at 24-9-5 on top chord, and 788 lb down and 176 lb up at 8-9-5, 95 lb down at 10-9-5, 95 lb down at 12-9-5, 95 lb down at 14-9-5, 95 lb down at 16-9-5, 95 lb down at 18-9-5, 95 lb down at 20-9-5, and 95 lb down at 22-9-5, and 98 lb down at 24-9-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20, 2021

LOAD CASE(S) Standard

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Job 1459442	Truss A17	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	T24733555 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:01 2021 Page 2
ID: XJKHpyKrMOKGaZufSxqtpWyxY11-8dBpkHzAiM?HMIAin7?BQz?xLzF4GyDGpQdyGQywQSy

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-7=-90, 2-8=-20

Concentrated Loads (lb)

Vert: 11=-788(F) 13=-197(F) 15=-197(F) 17=-197(F) 18=-197(F) 19=-197(F) 20=-197(F) 21=-197(F) 23=-205(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F)
28=-48(F) 29=-48(F) 30=-48(F) 31=-49(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

Job 1459442	Truss B1	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional)	T24733556
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:12 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxYl1-JkMz21646kOJA_WpaximNlyldOvvlYluLeo19HywQSN



Scale: 3/16"=1'

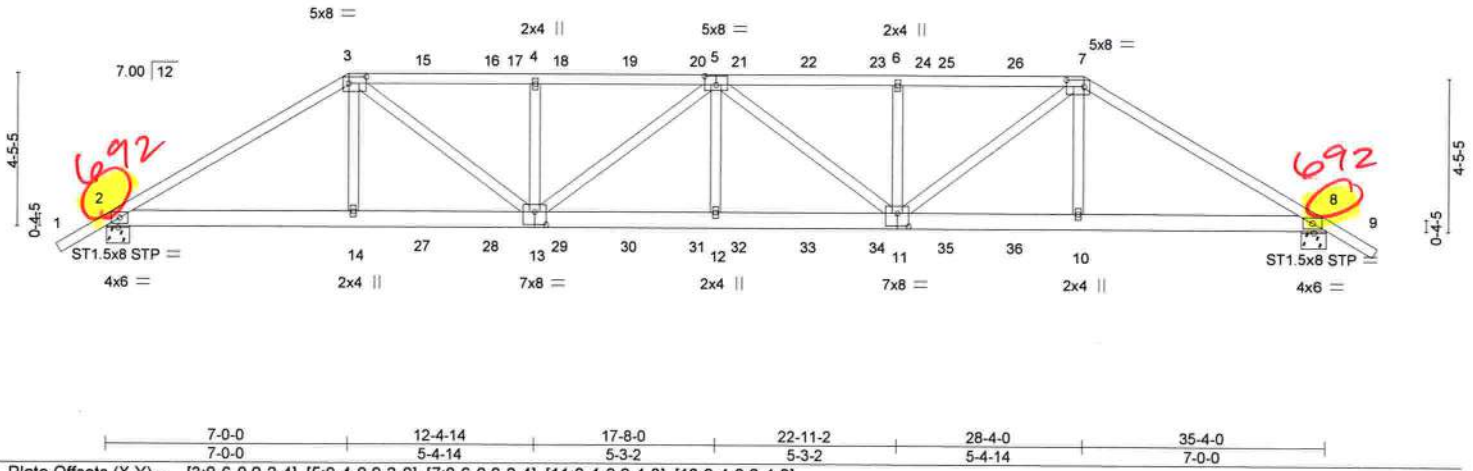


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [5:0-4-0,0-3-0], [7:0-6-0,0-2-4], [11:0-4-0,0-4-8], [13:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.98	Vert(LL) -0.17	12	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.81	Vert(CT) -0.46	12	>903	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Horz(CT) 0.12	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 415 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 8=0-8-0
 Max Horz 2=-98(LC 6)
 Max Uplift 2=-692(LC 8), 8=-692(LC 8)
 Max Grav 2=3859(LC 1), 8=3859(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6617/1144, 3-4=-7990/1454, 4-5=-7989/1454, 5-6=-7989/1454, 6-7=-7990/1454, 7-8=-6617/1144
 BOT CHORD 2-14=-870/5511, 13-14=-869/5530, 12-13=-1447/8818, 11-12=-1447/8818, 10-11=-863/5530, 8-10=-864/5511
 WEBS 3-14=0/720, 3-13=-555/3129, 4-13=-1028/324, 5-13=-1064/186, 5-12=0/505, 5-11=-1064/186, 6-11=-1028/325, 7-11=-555/3129, 7-10=0/720

- NOTES-
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=35ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 692 lb uplift at joint 2 and 692 lb uplift at joint 8.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
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 Date:

July 20,2021

Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 Tampa, FL 36610

Job 1459442	Truss B1	Truss Type Hip Girder	Qty 1	Ply 2	T24733556 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:12 2021 Page 2
ID:XJKHpyKrMOkGaZufSxqlpWyxY11-JkMz21646kOjA_VpxximNlyldOvvLyluLeo19HywQSn

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 352 lb down and 232 lb up at 7-0-0, 187 lb down and 121 lb up at 9-0-12, 187 lb down and 121 lb up at 11-0-12, 187 lb down and 121 lb up at 13-0-12, 187 lb down and 121 lb up at 15-0-12, 187 lb down and 121 lb up at 17-0-12, 187 lb down and 121 lb up at 18-3-4, 187 lb down and 121 lb up at 20-3-4, 187 lb down and 121 lb up at 22-3-4, 187 lb down and 121 lb up at 24-3-4, and 187 lb down and 121 lb up at 26-3-4, and 352 lb down and 232 lb up at 28-4-0 on top chord, and 349 lb down and 62 lb up at 7-0-0, 92 lb down at 9-0-12, 92 lb down at 11-0-12, 92 lb down at 13-0-12, 92 lb down at 15-0-12, 92 lb down at 17-0-12, 92 lb down at 18-3-4, 92 lb down at 20-3-4, 92 lb down at 22-3-4, 92 lb down at 24-3-4, and 92 lb down at 26-3-4, and 349 lb down and 62 lb up at 28-3-4 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: 1-3=-90, 3-7=-90, 7-9=-90, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-305(F) 7=-305(F) 14=-328(F) 10=-328(F) 15=-187(F) 16=-187(F) 18=-187(F) 19=-187(F) 20=-187(F) 21=-187(F) 22=-187(F) 23=-187(F) 25=-187(F) 26=-187(F) 27=-46(F) 28=-46(F) 29=-46(F) 30=-46(F) 31=-46(F) 32=-46(F) 33=-46(F) 34=-46(F) 35=-46(F) 36=-46(F)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



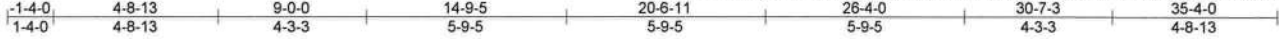
6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss B2	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional)	T24733557
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:15 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtPWyxY11-kJ16g38yPfm11SF0c3FT?waMZcwGYLkK1c0hmcywQSk



Scale: 3/16"=1'

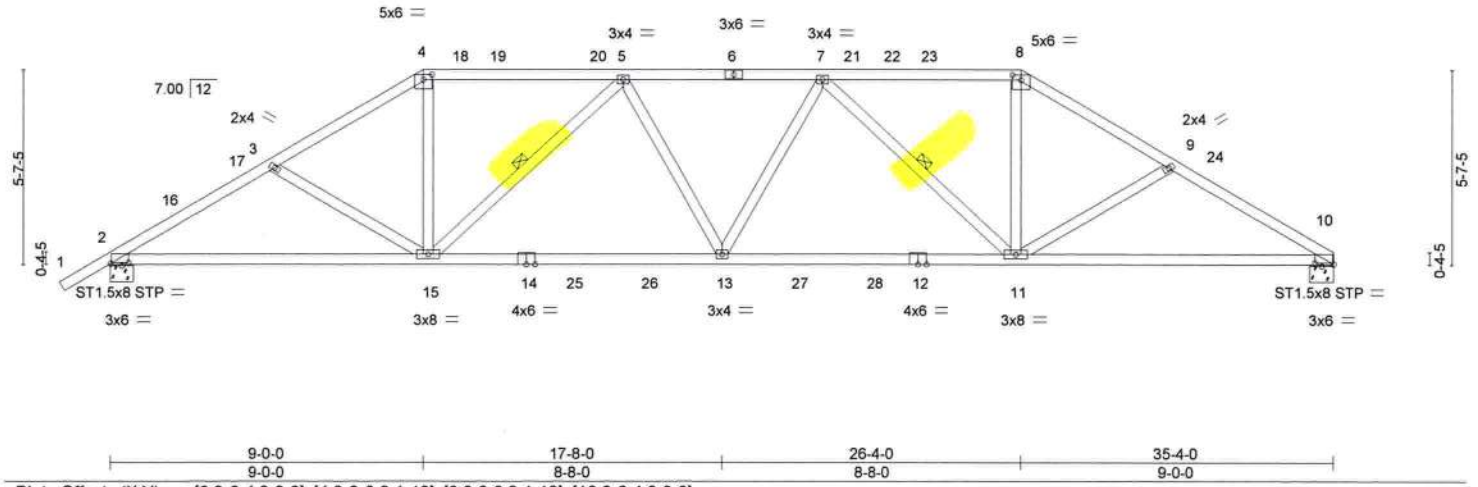


Plate Offsets (X,Y)--	[2:0-6-4,0-0-6], [4:0-3-0,0-1-12], [8:0-3-0,0-1-12], [10:0-6-4,0-0-6]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.21 13-15	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.47 13-15	>885	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.15 10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 181 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-15, 7-11

REACTIONS. (size) 10=0-8-0, 2=0-8-0
 Max Horz 2=118(LC 11)
 Max Uplift 10=-207(LC 12), 2=-272(LC 12)
 Max Grav 10=2073(LC 18), 2=2225(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3371/364, 3-4=-3075/334, 4-5=-2613/319, 5-7=-3366/397, 7-8=-2628/326,
 8-9=-3095/343, 9-10=-3402/380
 BOT CHORD 2-15=-254/2862, 13-15=-261/3319, 11-13=-264/3300, 10-11=-272/2819
 WEBS 3-15=-282/125, 4-15=-66/1108, 5-15=-997/132, 7-11=-988/125, 8-11=-73/1122,
 9-11=-307/128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., Gcpi=0.18; MWFRS (directional) and C-C Exterior(2E) - 1-4-14 to 2-1-8, Interior(1) 2-1-8 to 9-0-0, Exterior(2R) 9-0-0 to 13-11-15, Interior(1) 13-11-15 to 26-4-0, Exterior(2R) 26-4-0 to 31-3-15, Interior(1) 31-3-15 to 35-0-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 10 and 272 lb uplift at joint 2.



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

July 20,2021

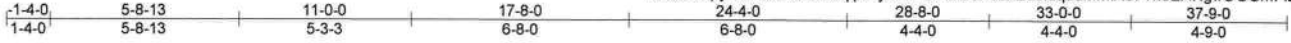
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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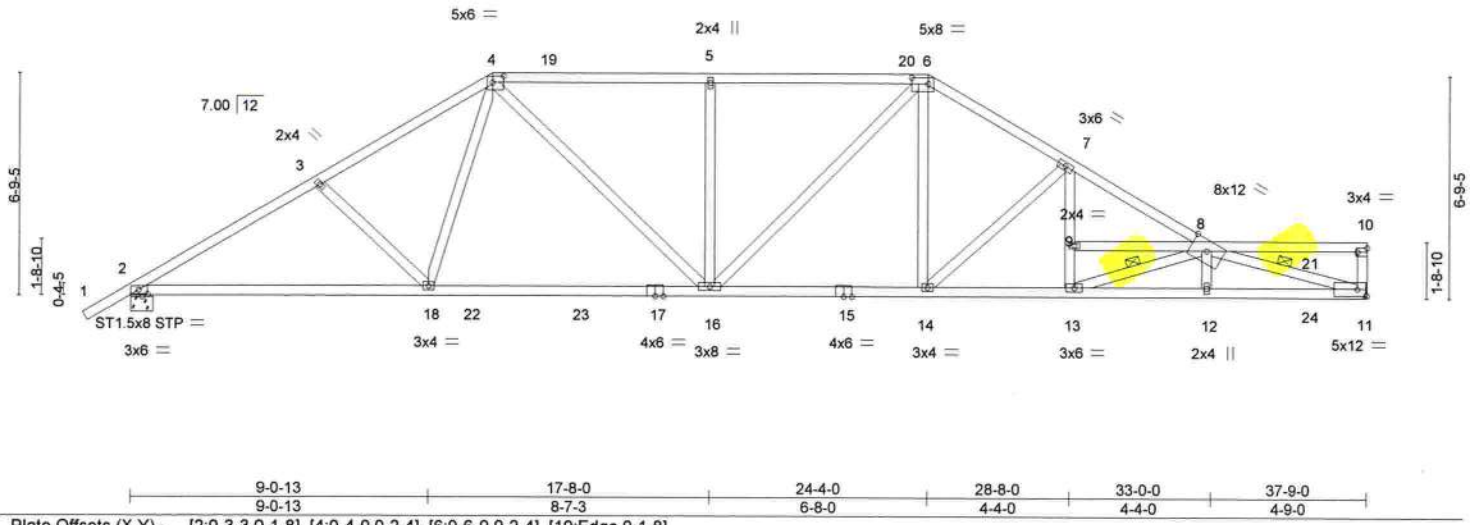
Job 1459442	Truss B3	Truss Type Roof Special Girder	Qty 1	Ply 1	T24733558
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ID: XJKHpyKrMOKGaZufSxqtpWyY11-CWbUuP9aAzu8fcqa9mmiX87Tx0EAHgwUGmFl2ywQSj



Scale = 1:67.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.92	Vert(LL) -0.29 16-18 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.94	Vert(CT) -0.65 16-18 >685 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.18 11 n/a n/a		
	Code FBC2020/TPI2014			Weight: 217 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* 11-15: 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-11: 2x4 SP No.2	WEBS 1 Row at midpt 8-13, 8-11

REACTIONS. (size) 11=Mechanical, 2=0-8-0
 Max Horiz 2=127(LC 7)
 Max Uplift 11=-226(LC 8), 2=-287(LC 8)
 Max Grav 11=2230(LC 30), 2=2394(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3706/390, 3-4=-3388/378, 4-5=-3249/415, 5-6=-3249/415, 6-7=-3516/413,
 7-8=-4598/483, 10-11=-260/55
 BOT CHORD 2-18=-311/3133, 16-18=-209/2684, 14-16=-239/2951, 13-14=-374/3895, 12-13=-655/6479,
 11-12=-649/6482
 WEBS 3-18=-366/136, 4-18=-16/649, 4-16=-85/942, 5-16=-681/152, 6-16=-72/519,
 6-14=-74/1060, 7-14=-1289/182, 9-13=-71/1091, 7-9=-71/1109, 8-13=-2666/290,
 8-11=-6515/651

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 11 and 287 lb uplift at joint 2.
 - 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) 55 lb down and 16 lb up at 35-11-4 on top chord, and 11 lb down at 35-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20, 2021

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	B3	Roof Special Girder	1	1	T24733558

Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:16 2021 Page 2

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LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-6=-90, 6-8=-90, 8-10=-90, 2-11=-20

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss B4	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T24733559
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:17 2021 Page 1
 ID: XJKHpyKrMOKGaZurSxqtpWyxY11-gi9s5IACxH07HIPnjUHx4LgenPZO06WdVwVooqVywQSi



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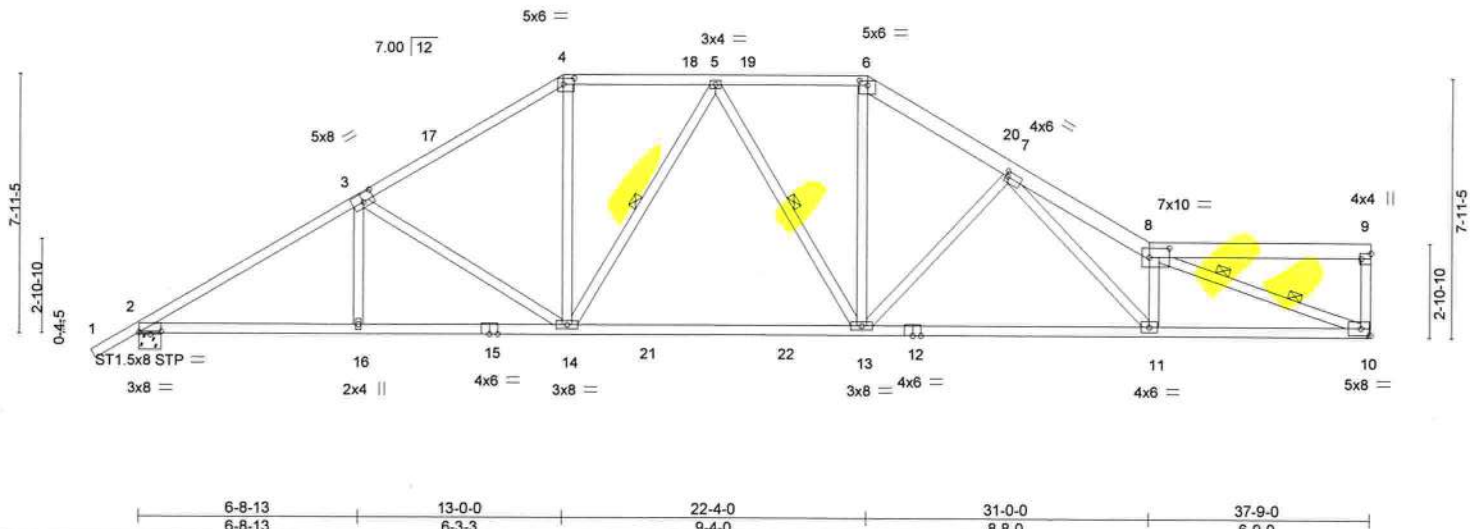


Plate Offsets (X,Y)--	[2:0-8-0,0-0-6], [3:0-4-0,0-3-0], [4:0-4-0,0-2-4], [6:0-3-0,0-1-12], [7:0-0-12,0-2-0], [8:0-7-4,0-3-8], [9:Edge,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.34 13-14	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.70 13-14	>642	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.18 10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-8-8-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* 2-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-10: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 5-13 2 Rows at 1/3 pts 8-10

REACTIONS. (size) 10=Mechanical, 2=0-8-0
 Max Horz 2=138(LC 11)
 Max Uplift 10=225(LC 12), 2=285(LC 12)
 Max Grav 10=2197(LC 18), 2=2382(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3708/424, 3-4=-2986/402, 4-5=-2486/393, 5-6=-2694/406, 6-7=-3196/435,
 7-8=-5734/672, 9-10=-325/73
 BOT CHORD 2-16=-379/3130, 14-16=-380/3126, 13-14=-280/2705, 11-13=-391/3410, 10-11=-527/4832
 WEBS 3-16=0/260, 3-14=-736/162, 4-14=-80/1035, 5-14=-540/89, 6-13=-119/1216,
 7-13=-1172/221, 7-11=-225/2257, 8-11=-1438/242, 8-10=-5059/553

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 2-4-7, Interior(1) 2-4-7 to 13-0-0, Exterior(2R) 13-0-0 to 16-9-5, Interior(1) 16-9-5 to 22-4-0, Exterior(2R) 22-4-0 to 26-1-5, Interior(1) 26-1-5 to 37-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 10 and 285 lb uplift at joint 2.

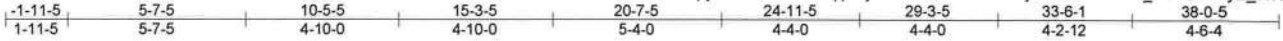


Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

Job 1459442	Truss B5	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Job Reference (optional) T24733560
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:19 2021 Page 1

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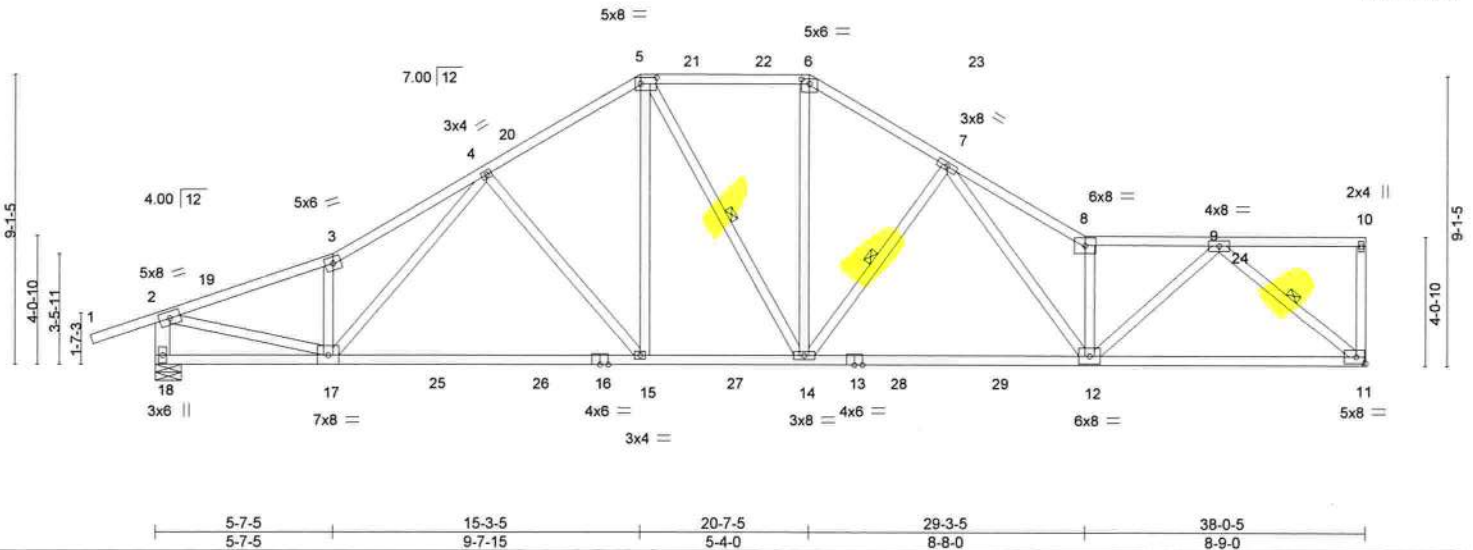


Plate Offsets (X,Y) - [5:0-6-0,0-2-4], [6:0-3-0,0-1-12]

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 0.71	Vert(LL)	-0.39 15-17	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.80 15-17	>561	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.12 11	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 246 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 2-17: 2x4 SP No.2, 2-18: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 5-14, 7-14, 9-11

REACTIONS.

(size) 11=Mechanical, 18=0-9-14
 Max Horz 18=-146(LC 10)
 Max Uplift 11=-231(LC 12), 18=-301(LC 12)
 Max Grav 11=2238(LC 18), 18=2452(LC 17)

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

TOP CHORD 2-3=-3608/573, 3-4=-4032/728, 4-5=-2844/585, 5-6=-2438/559, 6-7=-2896/605,
 7-8=-4828/840, 8-9=-4017/661, 2-18=-2401/505
 BOT CHORD 15-17=-535/2894, 14-15=-379/2423, 12-14=-536/3057, 11-12=-420/2315
 WEBS 3-17=-1232/294, 4-17=-131/924, 4-15=-760/246, 5-15=-124/921, 5-14=-50/279,
 6-14=-160/1051, 7-14=-1157/283, 7-12=-251/1835, 8-12=-2702/513, 9-12=-328/2313,
 9-11=-3007/553, 2-17=-482/3336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-11-14 to 1-9-12, Interior(1) 1-9-12 to 15-3-5, Exterior(2R) 15-3-5 to 19-0-15, Interior(1) 19-0-15 to 20-7-5, Exterior(2R) 20-7-5 to 24-4-15, Interior(1) 24-4-15 to 37-10-9 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 11 and 301 lb uplift at joint 18.



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

July 20,2021

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



Job 1459442	Truss B6	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T24733561
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:20 2021 Page 1

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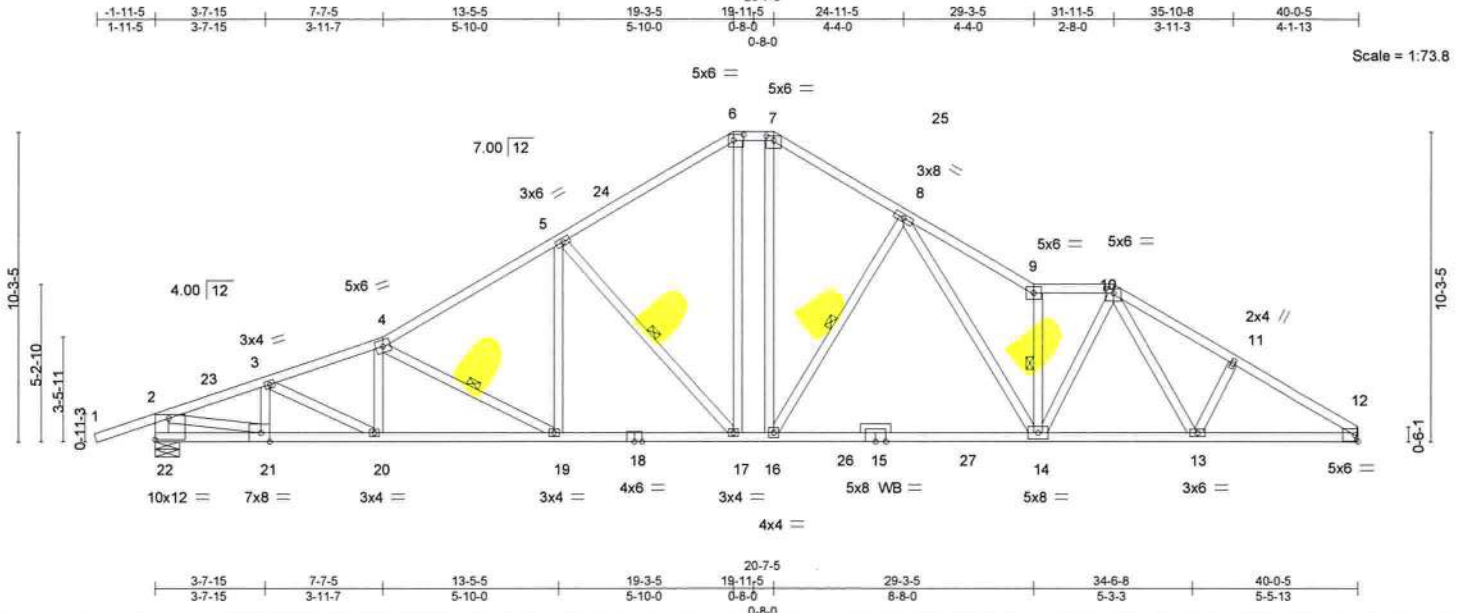


Plate Offsets (X,Y)-- [6:0-4-0,0-2-4], [7:0-3-0,0-1-12], [10:0-3-0,0-1-12], [21:0-3-8,Edge], [22:Edge,0-8-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	-0.39	14-16	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.84	14-16	>568		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.18	12	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-SH						
								Weight: 261 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-22: 2x6 SP No.2, 2-21: 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 5-17, 9-14, 8-16
OTHERS 2x4 SP No.3	

REACTIONS. (size) 12=Mechanical, 22=0-9-14
 Max Horz 22=202(LC 11)
 Max Uplift 12=-237(LC 12), 22=-319(LC 12)
 Max Grav 12=2380(LC 18), 22=2540(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4164/680, 3-4=-4757/802, 4-5=-3839/700, 5-6=-2870/620, 6-7=-2380/587,
 7-8=-2844/639, 8-9=-4516/909, 9-10=-3783/725, 10-11=-3894/747, 11-12=-4035/720
 BOT CHORD 20-21=-602/4023, 19-20=-683/4615, 17-19=-444/3346, 16-17=-230/2444,
 14-16=-392/2994, 13-14=-445/3080, 12-13=-550/3342
 WEBS 4-19=-1443/273, 5-19=-85/933, 5-17=-1361/321, 8-14=-324/1733, 9-14=-2469/541,
 10-13=-105/371, 10-14=-215/1495, 8-16=-1267/346, 2-22=-2472/527, 3-20=-118/664,
 6-17=-217/1038, 7-16=-254/1280, 3-21=-707/157, 2-21=-609/3976

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-11-14 to 2-0-2, Interior(1) 2-0-2 to 19-3-5, Exterior(2E) 19-3-5 to 20-7-5, Exterior(2R) 20-7-5 to 24-7-5, Interior(1) 24-7-5 to 31-11-5, Exterior(2R) 31-11-5 to 35-11-5, Interior(1) 35-11-5 to 39-11-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 12 and 319 lb uplift at joint 22.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20, 2021

Job 1459442	Truss B7	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T24733562
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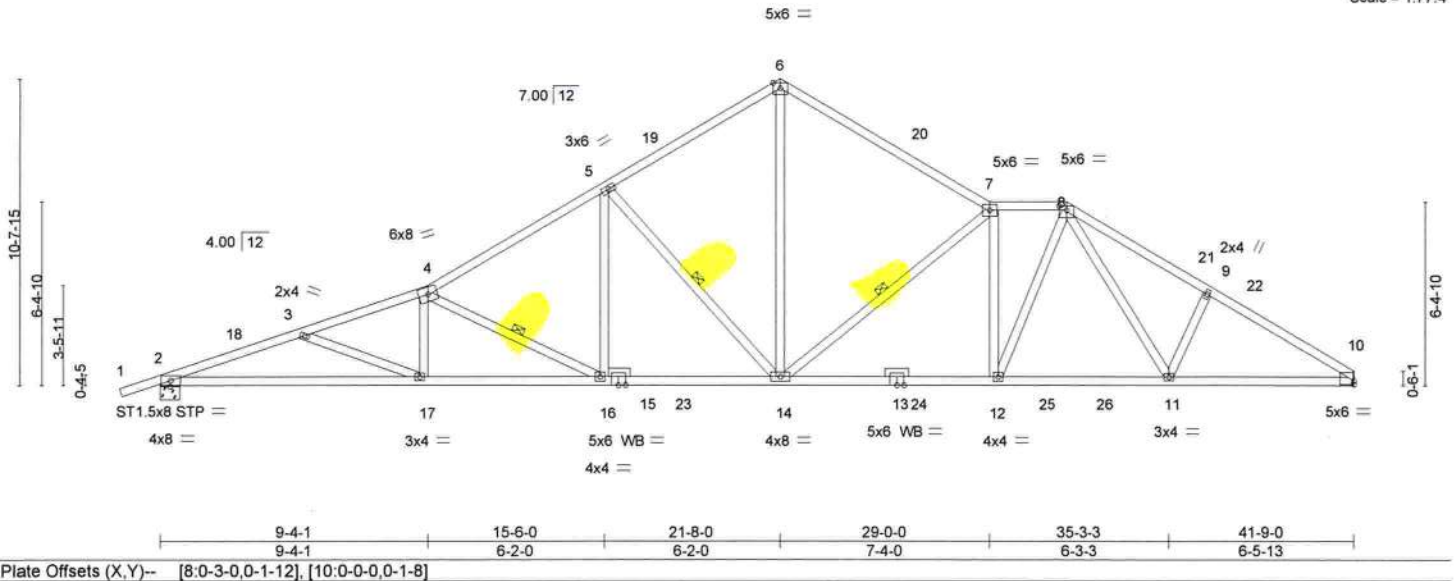
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:21 2021 Page 1

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Scale = 1:77.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.76	Vert(LL) -0.31 14-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.90	Vert(CT) -0.74 14-16 >675 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.23 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-7: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 2-15: 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-16, 5-14, 7-14
OTHERS 2x4 SP No.3	

REACTIONS. (size) 10=Mechanical, 2=0-8-0
 Max Horz 2=211(LC 11)
 Max Uplift 10=-248(LC 12), 2=-310(LC 12)
 Max Grav 10=2487(LC 18), 2=2592(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6186/1041, 3-4=-5893/965, 4-5=-4223/767, 5-6=-3017/653, 6-7=-3039/635,
 7-8=-3605/720, 8-9=-4078/781, 9-10=-4229/737
 BOT CHORD 2-17=-944/5894, 16-17=-827/5656, 14-16=-485/3676, 12-14=-504/3632, 11-12=-418/3090,
 10-11=-561/3513
 WEBS 3-17=-324/126, 4-17=0/369, 4-16=-2225/386, 5-16=-134/1246, 5-14=-1650/363,
 6-14=-427/2374, 7-14=-1541/363, 7-12=-967/252, 8-12=-208/1355, 8-11=-143/634,
 9-11=-338/186

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 2-9-9, Interior(1) 2-9-9 to 21-8-0, Exterior(2R) 21-8-0 to 25-10-2, Interior(1) 25-10-2 to 31-8-0, Exterior(2R) 31-8-0 to 35-10-2, Interior(1) 35-10-2 to 41-8-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 10 and 310 lb uplift at joint 2.



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

July 20,2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5-19-2020 BEFORE USE</p> <p>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</p>	<p>6904 Parke East Blvd. Tampa, FL 36610</p>
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Job 1459442	Truss B8	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T24733563
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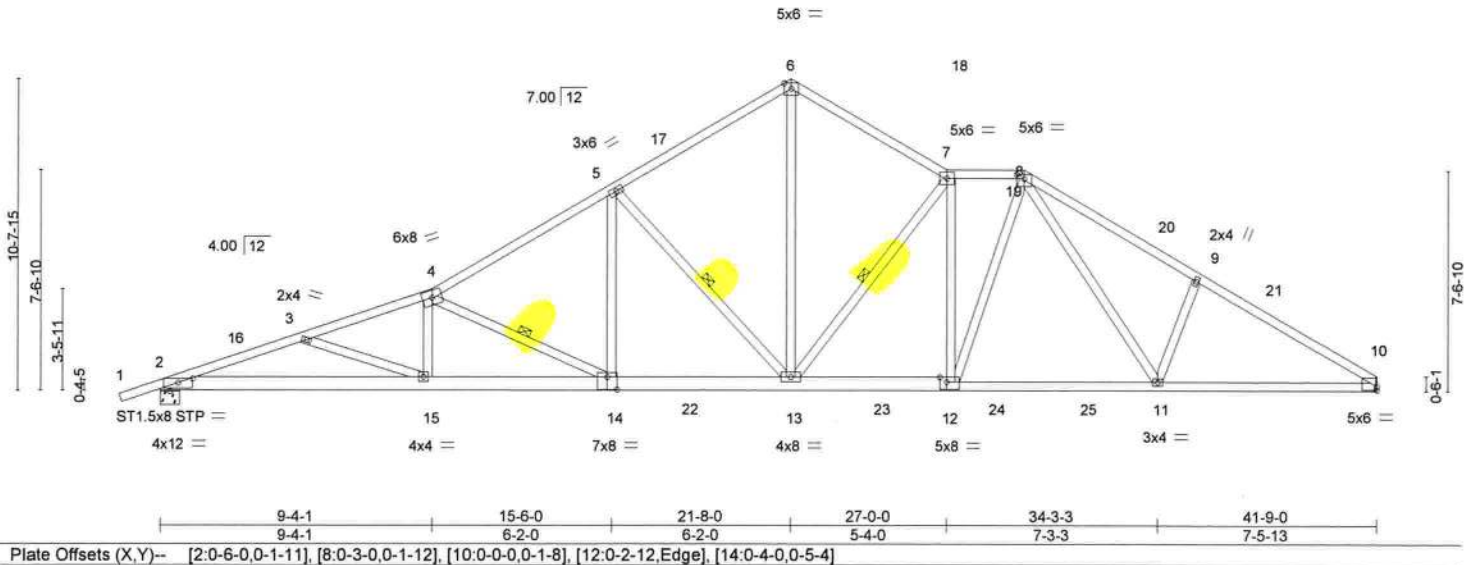
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:25 2021 Page 1

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Scale = 1:76.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.26	13-14	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.64	14-15	>779		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.17	10	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 4-6: 2x4 SP M 31, 6-7,7-8: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 2-14: 2x6 SP M 26, 12-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 8-5-3 oc bracing: 10-11.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 5-13, 7-13

REACTIONS. (size) 10=Mechanical, 2=0-8-0
 Max Horz 2=212(LC 11)
 Max Uplift 10=-248(LC 12), 2=-311(LC 12)
 Max Grav 10=2493(LC 18), 2=2598(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6405/1091, 3-4=-6011/982, 4-5=-4292/780, 5-6=-3042/662, 6-7=-3012/655,
 7-8=-3291/684, 8-9=-4062/795, 9-10=-4209/729
 BOT CHORD 2-15=-991/6118, 14-15=-842/5769, 13-14=-494/3737, 12-13=-422/3322, 11-12=-372/2947,
 10-11=-545/3496
 WEBS 3-15=-435/159, 4-15=0/368, 4-14=-2272/389, 5-14=-134/1287, 5-13=-1700/370,
 6-13=-477/2469, 7-13=-1377/327, 7-12=-741/192, 8-12=-142/1080, 8-11=-181/848,
 9-11=-454/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 2-9-9, Interior(1) 2-9-9 to 21-8-0, Exterior(2R) 21-8-0 to 25-10-2, Interior(1) 25-10-2 to 29-8-0, Exterior(2R) 29-8-0 to 33-10-2, Interior(1) 33-10-2 to 41-8-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 10 and 311 lb uplift at joint 2.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
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 Date:

July 20,2021

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Job 1459442	Truss B9	Truss Type Roof Special	Qty 1	Ply 1	T24733564
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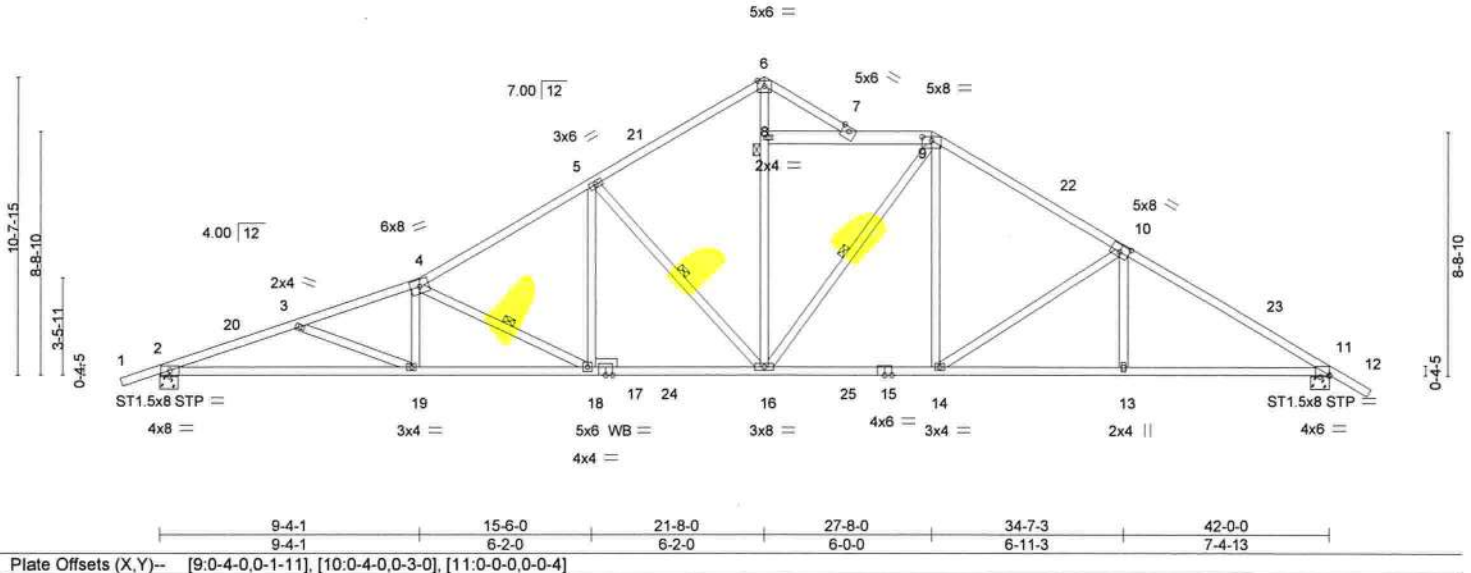
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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ID: XJKHpyKrMokGazufSxqtpWyxY11-vRcG_qHsp29ks8bVily2xFY8u2dndBnyZpBmFTywQSZ

1-4-0	5-0-5	9-4-1	15-6-0	21-8-0	25-0-0	27-8-0	34-7-3	42-0-0	43-4-0
1-4-0	5-0-5	4-3-11	6-2-0	6-2-0	3-4-0	2-8-0	6-11-3	7-4-13	1-4-0

Scale = 1:79.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.99	Vert(LL)	-0.34 16-18	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.83 16-18	>598	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.23 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 4-6,10-12: 2x4 SP M 31, 8-9: 2x6 SP M 26, 9-10: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
 2-17: 2x4 SP M 31, 11-15: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
 6-16: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-18, 5-16, 9-16
JOINTS 1 Brace at Jt(s): 8

REACTIONS. (size) 2=0-8-0, 11=0-8-0
 Max Horz 2=216(LC 11)
 Max Uplift 2=309(LC 12), 11=310(LC 12)
 Max Grav 2=2588(LC 17), 11=2617(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6173/1035, 3-4=-5878/950, 4-5=-4214/750, 5-6=-2995/634, 6-7=-2833/639,
 7-9=-2494/538, 9-10=-3337/652, 10-11=-4124/680
BOT CHORD 2-19=-897/5891, 18-19=-780/5651, 16-18=-440/3678, 14-16=-281/2795, 13-14=-470/3372,
 11-13=-469/3376
WEBS 3-19=-325/127, 4-19=0/366, 4-18=-2218/383, 5-18=-129/1256, 5-16=-1661/367,
 8-16=-340/1780, 6-8=-486/2414, 9-16=-541/166, 9-14=-68/695, 10-14=-798/224,
 10-13=0/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 2-9-14, Interior(1) 2-9-14 to 21-8-0, Exterior(2E) 21-8-0 to 25-0-0, Interior(1) 25-0-0 to 27-8-0, Exterior(2R) 27-8-0 to 31-10-6, Interior(1) 31-10-6 to 43-4-14 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 310 lb uplift at joint 11.
 - 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
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July 20,2021

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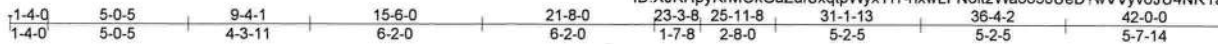
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss B10	Truss Type Roof Special Girder	Qty 1	Ply 3	Job Reference (optional) T24733565
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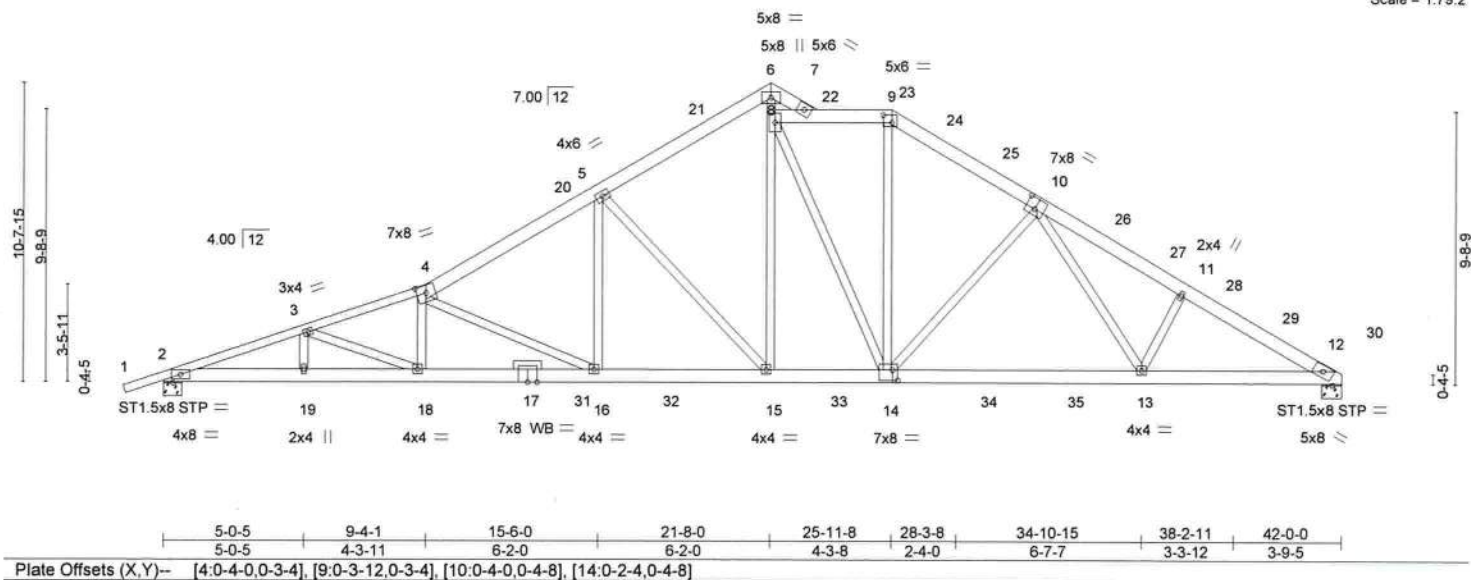
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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ID:XJKHpyKrMOKGaZufSxqtpWyxY11-nxwLFN6it2Wao850UeD7wVvYyoJU4NK1aXahjywQSm



Scale = 1:79.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.18 16-18	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.59 16-18	>841	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.13 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 957 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
 1-4: 2x4 SP No.2, 8-9,10-12: 2x6 SP M 26
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
 6-15: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 12=0-8-0
 Max Horz 2=209(LC 7)
 Max Uplift 12=-27(LC 8)
 Max Grav 2=6046(LC 1), 12=12638(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-16276/0, 3-4=-16798/0, 4-5=-13437/0, 5-6=-9988/0, 6-7=-8642/0, 7-8=-891/51,
 7-9=-9006/0, 9-10=-10800/0, 10-11=-15119/0, 11-12=-17632/0
BOT CHORD 2-19=0/15278, 18-19=0/15278, 16-18=0/15943, 15-16=0/11580, 14-15=0/8414,
 13-14=0/11028, 12-13=0/13599
WEBS 3-19=-376/36, 3-18=-136/876, 4-18=-28/285, 4-16=-4863/5, 5-16=-131/4199,
 5-15=-4664/0, 8-15=0/3318, 6-8=0/6743, 10-14=-3167/112, 10-13=-81/2944,
 11-13=-2357/126, 9-14=0/1400, 8-14=-180/1527

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 12.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Orthographic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
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 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	B10	Roof Special Girder	1	3	T24733565

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

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ID:XJKHpyKRMokGaZufSxqpWyxY11-G7UKTj7KeMeRlQc2LkESj27eCfjpaBpyH8EAyWQSI

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 263 lb down and 81 lb up at 19-5-5, 250 lb down and 74 lb up at 21-8-0, 773 lb down and 129 lb up at 23-2-12, 482 lb down and 233 lb up at 25-5-5, 482 lb down and 241 lb up at 27-5-5, 482 lb down and 241 lb up at 29-5-5, 482 lb down and 241 lb up at 31-5-5, 482 lb down and 241 lb up at 33-5-5, 482 lb down and 241 lb up at 35-5-5, 482 lb down and 241 lb up at 37-5-5, 482 lb down and 241 lb up at 39-5-5, and 3396 lb down and 372 lb up at 40-6-8, and 1189 lb down and 130 lb up at 41-8-0 on top chord, and 1932 lb down and 210 lb up at 14-10-0 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: 1-4=-90, 4-20=-90, 6-20=-186, 6-7=-186, 7-8=-96, 7-9=-186, 9-12=-186, 2-12=-20
Concentrated Loads (lb)
Vert: 6=-229 7=-733 10=-442 12=-1189 21=-229 23=-442 24=-442 25=-442 26=-442 27=-442 28=-442 29=-442 30=-3396 31=-1932(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-80, 4-20=-80, 6-20=-176, 6-7=-176, 7-8=-96, 7-9=-176, 9-12=-176, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
Concentrated Loads (lb)
Vert: 6=-206 7=-668 10=-400 12=-1081 21=-206 23=-400 24=-400 25=-400 26=-400 27=-400 28=-400 29=-400 30=-3087 31=-1767(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-20=-50, 6-20=-146, 6-7=-146, 7-8=-96, 7-9=-146, 9-12=-146, 2-12=-40
Concentrated Loads (lb)
Vert: 6=-153 7=-618 10=-343 12=-973 21=-153 23=-343 24=-343 25=-343 26=-343 27=-343 28=-343 29=-343 30=-2779 31=-1553(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=11, 4-20=2, 6-20=94, 6-7=84, 7-8=96, 7-22=-78, 9-22=86, 9-12=84, 2-12=8
Horz: 1-2=-34, 2-4=-19, 4-6=11, 6-7=20, 9-12=20
Drag: 7-22=0, 9-22=0
Concentrated Loads (lb)
Vert: 6=34 7=62 10=168 12=108 21=37 23=170 24=168 25=168 26=168 27=168 28=168 29=168 30=308 31=199(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=11, 4-20=12, 6-20=84, 6-7=94, 7-8=96, 7-9=78, 9-12=94, 2-12=8
Horz: 1-2=-14, 2-4=-20, 4-6=-20, 6-7=11, 9-12=11
Drag: 7-9=0
Concentrated Loads (lb)
Vert: 6=32 7=63 10=178 12=108 21=29 23=166 24=178 25=178 26=178 27=178 28=178 29=178 30=308 31=199(B)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-48, 2-4=53, 4-20=60, 6-20=156, 6-7=136, 7-8=96, 7-9=-147, 9-12=-136, 2-12=-20
Horz: 1-2=-2, 2-4=3, 4-6=10, 6-7=10, 9-12=10
Concentrated Loads (lb)
Vert: 6=74 7=122 10=221 12=-869 21=81 23=229 24=221 25=221 26=221 27=221 28=221 29=221 30=-2481 31=210(B)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=41, 4-20=40, 6-20=136, 6-7=156, 7-8=96, 7-9=-147, 9-12=156, 2-12=-20
Horz: 1-2=-14, 2-4=-9, 4-6=-10, 6-7=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 6=70 7=129 10=241 12=-869 21=63 23=233 24=241 25=241 26=241 27=241 28=241 29=241 30=-2481 31=210(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-4=20, 4-20=20, 6-20=76, 6-7=76, 7-8=96, 7-9=76, 9-12=76, 2-12=8
Horz: 1-2=-44, 2-4=-29, 4-6=-29, 6-7=29, 9-12=29
Drag: 7-9=0
Concentrated Loads (lb)
Vert: 6=22 7=54 10=160 12=130 21=22 23=160 24=160 25=160 26=160 27=160 28=160 29=160 30=372 31=199(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=10, 4-20=10, 6-20=86, 6-7=86, 7-8=96, 7-9=86, 9-12=86, 2-12=8
Horz: 1-2=-33, 2-4=-18, 4-6=-18, 6-7=18, 9-12=18
Drag: 7-9=0
Concentrated Loads (lb)
Vert: 6=31 7=65 10=170 12=16 21=31 23=170 24=170 25=170 26=170 27=170 28=170 29=170 30=47 31=199(B)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=51, 4-20=51, 6-20=147, 6-7=147, 7-8=96, 7-9=-147, 9-12=-147, 2-12=-20
Horz: 1-2=-4, 2-4=1, 4-6=1, 6-7=-1, 9-12=-1
Concentrated Loads (lb)
Vert: 6=72 7=126 10=231 12=-814 21=72 23=231 24=231 25=231 26=231 27=231 28=231 29=231 30=-2324 31=210(B)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=51, 4-20=51, 6-20=147, 6-7=147, 7-8=96, 7-9=-147, 9-12=-147, 2-12=-20
Horz: 1-2=-4, 2-4=1, 4-6=1, 6-7=-1, 9-12=-1
Concentrated Loads (lb)
Vert: 6=72 7=126 10=231 12=-814 21=72 23=231 24=231 25=231 26=231 27=231 28=231 29=231 30=-2324 31=210(B)
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	B10	Roof Special Girder	1	3	

T24733565

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:14 2021 Page 3
ID:XJKHpyKrMOKGaZufSxtpWyxY11-G7UkTJ7KeMeRQlgC2LkESj27eCfjpaBpyH8EAywQSI**LOAD CASE(S) Standard**

- Uniform Loads (plf)
Vert: 1-4=-50, 4-20=-50, 6-20=-146, 6-7=-146, 7-8=-96, 7-9=-146, 9-12=-146, 2-16=-40, 16-32=-60, 15-32=-40, 15-33=-60, 33-34=-40, 34-35=-60, 12-35=-40
- Concentrated Loads (lb)
Vert: 6=-135 7=-472 10=-275 12=-757 21=-135 23=-275 24=-275 25=-275 26=-275 27=-275 28=-275 29=-275 30=-2161 31=-1273(B)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-79, 2-4=-82, 4-20=-88, 6-20=-184, 6-7=-169, 7-8=-96, 7-9=-177, 9-12=-169, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
Horz: 1-2=-1, 2-4=2, 4-6=8, 6-7=7, 9-12=7
- Concentrated Loads (lb)
Vert: 6=55 7=73 10=160 12=-1165 21=60 23=166 24=160 25=160 26=160 27=160 28=160 29=160 30=-3327 31=58(B)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-69, 2-4=-73, 4-20=-73, 6-20=-169, 6-7=-184, 7-8=-96, 7-9=-177, 9-12=-184, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
Horz: 1-2=-11, 2-4=-7, 4-6=-7, 6-7=-8, 9-12=-8
- Concentrated Loads (lb)
Vert: 6=53 7=78 10=175 12=-1165 21=48 23=170 24=175 25=175 26=175 27=175 28=175 29=175 30=-3327 31=58(B)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-81, 4-20=-81, 6-20=-177, 6-7=-177, 7-8=-96, 7-9=-177, 9-12=-177, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
Horz: 1-2=-3, 2-4=1, 4-6=1, 6-7=-1, 9-12=-1
- Concentrated Loads (lb)
Vert: 6=54 7=76 10=168 12=-1124 21=54 23=168 24=168 25=168 26=168 27=168 28=168 29=168 30=-3210 31=58(B)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-81, 4-20=-81, 6-20=-177, 6-7=-177, 7-8=-96, 7-9=-177, 9-12=-177, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
Horz: 1-2=-3, 2-4=1, 4-6=1, 6-7=-1, 9-12=-1
- Concentrated Loads (lb)
Vert: 6=54 7=76 10=168 12=-1124 21=54 23=168 24=168 25=168 26=168 27=168 28=168 29=168 30=-3210 31=58(B)
- 17) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-90, 4-20=-90, 6-20=-186, 6-7=-146, 7-8=-96, 7-9=-146, 9-12=-146, 2-12=-20
- Concentrated Loads (lb)
Vert: 6=-242 7=-773 10=-482 12=-1189 21=-229 23=-482 24=-482 25=-482 26=-482 27=-482 28=-482 29=-482 30=-3396 31=-1932(B)
- 18) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-50, 4-20=-50, 6-20=-146, 6-7=-186, 7-8=-96, 7-9=-186, 9-12=-186, 2-12=-20
- Concentrated Loads (lb)
Vert: 6=-250 7=-733 10=-442 12=-1189 21=-263 23=-442 24=-442 25=-442 26=-442 27=-442 28=-442 29=-442 30=-3396 31=-1932(B)
- 19) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-80, 4-20=-80, 6-20=-176, 6-7=-146, 7-8=-96, 7-9=-146, 9-12=-146, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
- Concentrated Loads (lb)
Vert: 6=-216 7=-698 10=-430 12=-1081 21=-206 23=-430 24=-430 25=-430 26=-430 27=-430 28=-430 29=-430 30=-3087 31=-1767(B)
- 20) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-50, 4-20=-50, 6-20=-146, 6-7=-176, 7-8=-96, 7-9=-176, 9-12=-176, 2-16=-35, 16-32=-50, 15-32=-35, 15-33=-50, 33-34=-35, 34-35=-50, 12-35=-35
- Concentrated Loads (lb)
Vert: 6=-221 7=-668 10=-400 12=-1081 21=-231 23=-400 24=-400 25=-400 26=-400 27=-400 28=-400 29=-400 30=-3087 31=-1767(B)



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 information regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

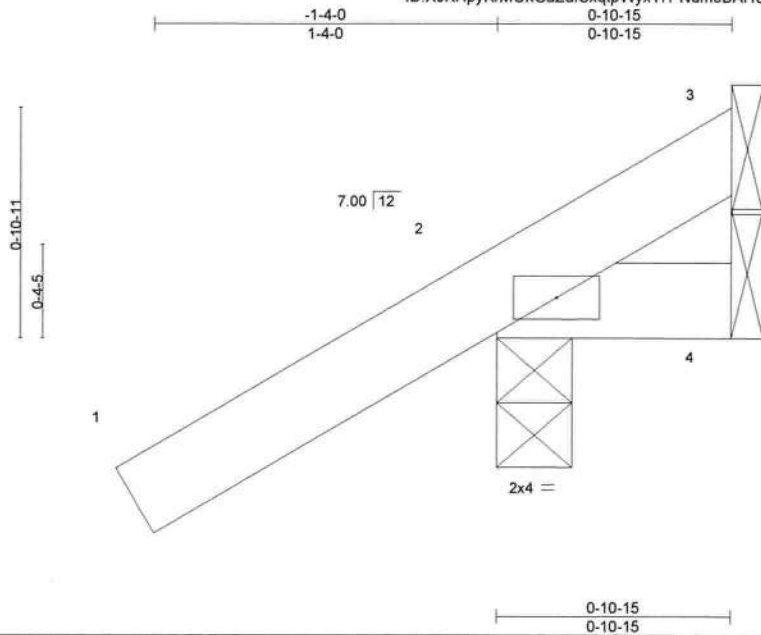
Job 1459442	Truss C1	Truss Type Jack-Open	Qty 18	Ply 1	Job Reference (optional) T24733566
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:27 2021 Page 1

ID:XJKHpyKrMOKGaZufSxqtpWyxY11-NdmeBAHUaLHbTI9JaTHUS4V2RCyMIK5oTwKBwywQSY



Scale = 1:8.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	-0.00	2	>999	240	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	2	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						
									Weight: 5 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=50(LC 12)
Max Uplift 3=68(LC 1), 2=107(LC 12)
Max Grav 3=42(LC 12), 2=284(LC 1), 4=17(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 68 lb uplift at joint 3 and 107 lb uplift at joint 2.



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

July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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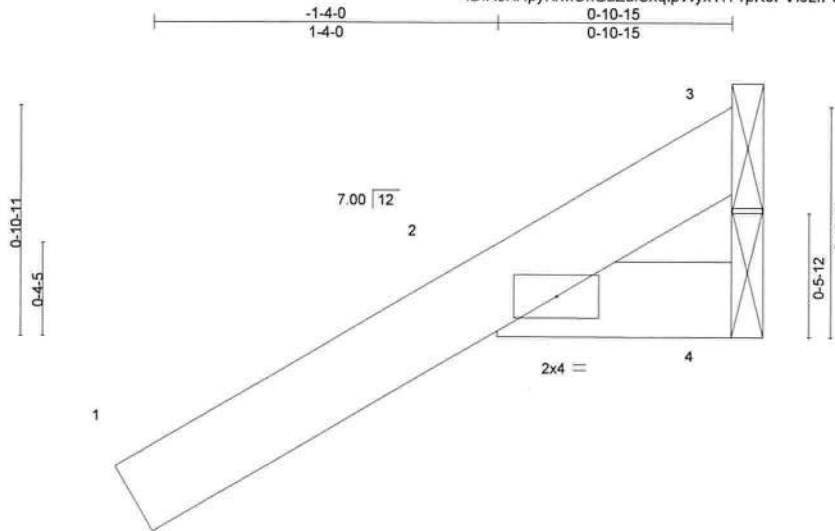
Job 1459442	Truss C1C	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T24733567
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:28 2021 Page 1

ID:XJKHpyKrMOKGaZufSxqtpWyY11-rpK0PVl6LPS5Skusl_W1gdg1rXR5KaF17gtjMywQSX



Scale = 1:8.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.00	2	n/r	120	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	0.00	4	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/TPI2014	Matrix-P						
								Weight: 5 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical
Max Horz 3=435(LC 1), 4=435(LC 1)
Max Uplift 3=78(LC 12)
Max Grav 3=226(LC 1)

PROVIDE ANCHORAGE, DESIGNED BY OTHERS, AT BEARINGS TO RESIST MAX. UPLIFT AND MAX HORZ. REACTIONS SPECIFIED BELOW.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=435/483
BOT CHORD 2-4=435/474

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 78 lb uplift at joint 3.



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

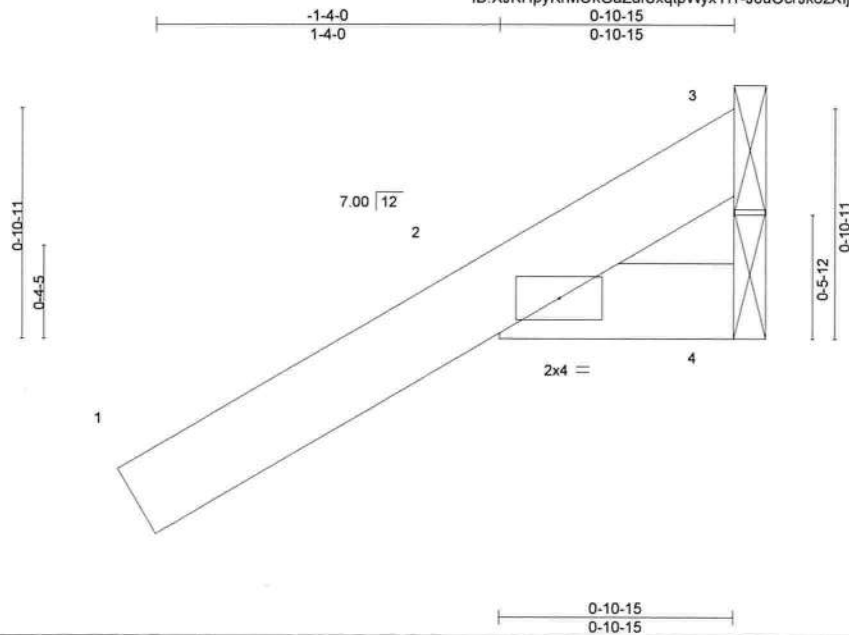
July 20,2021

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss C1D	Truss Type Jack-Open	Qty 8	Ply 1	T24733568
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:29 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtPWyxY11-J0uOcrJk6zXljbJ4Q?VIZI9mFtgqqQFnPRGoywQSW



Scale = 1:8.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.00	2	n/r	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 5 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical
 Max Horz 3=435(LC 1), 4=-435(LC 1)
 Max Uplift 3=-78(LC 12)
 Max Grav 3=226(LC 1)

PROVIDE ANCHORAGE, DESIGNED BY OTHERS, AT BEARINGS TO RESIST MAX. UPLIFT AND MAX HORZ. REACTIONS SPECIFIED BELOW.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-435/483
 BOT CHORD 2-4=-435/474

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 78 lb uplift at joint 3.



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

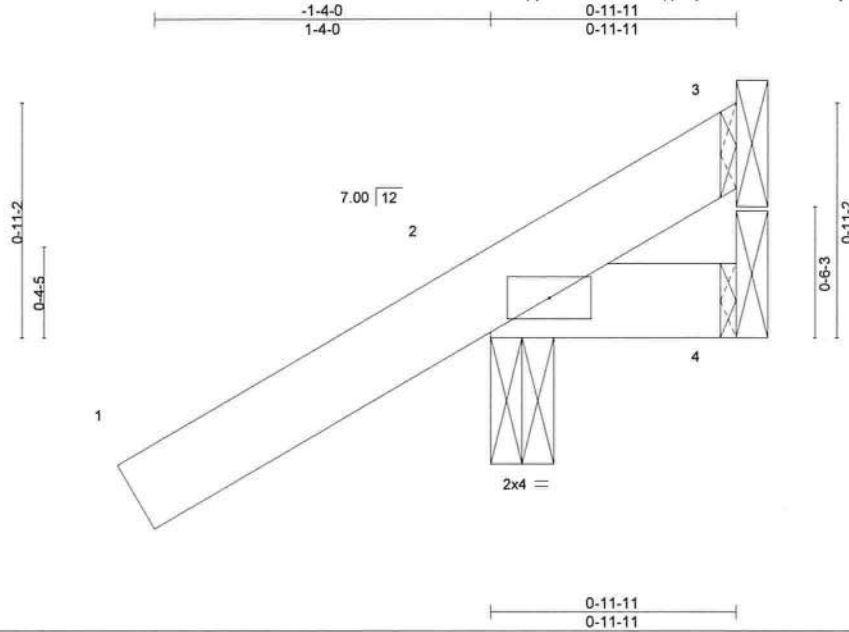
July 20,2021

Job 1459442	Truss C1E	Truss Type Jack-Open	Qty 4	Ply 1	T24733569
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:29 2021 Page 1

ID: XJKHpyKrMOkGaZufSxtpWyxY11-J0uOcrJk6zXljbJ4Q?VIZt9raFuPqngOFnPRGoywQSW



Scale = 1:8.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	-0.00	2	>999	240	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	2	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						
								Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 0-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 3=51(LC 12)
Max Uplift 3=56(LC 1), 2=136(LC 12)
Max Grav 3=70(LC 12), 2=279(LC 1), 4=19(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 56 lb uplift at joint 3 and 136 lb uplift at joint 2.



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

July 20,2021

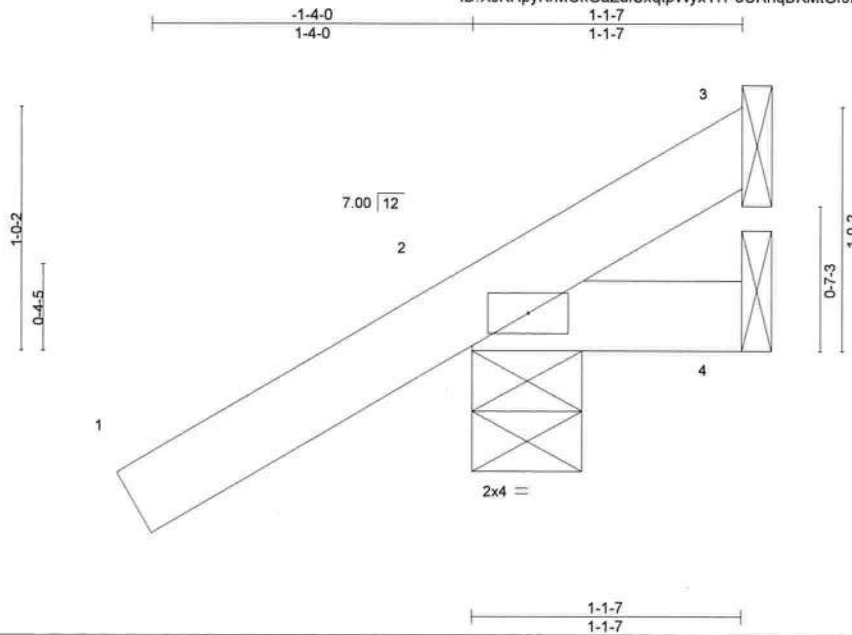
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5-19-2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

Job 1459442	Truss C1P	Truss Type Jack-Open	Qty 2	Ply 1	T24733570
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:30 2021 Page 1
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Scale = 1:9.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.00 2 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 6 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-1-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
 Max Horz 2=54(LC 12)
 Max Uplift 3=-42(LC 1), 2=-98(LC 12)
 Max Grav 3=30(LC 12), 2=279(LC 1), 4=21(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 42 lb uplift at joint 3 and 98 lb uplift at joint 2.



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

July 20, 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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 Tampa, FL 36610

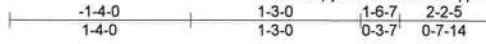
Job 1459442	Truss C1S	Truss Type Jack-Open Structural Gable	Qty 6	Ply 1	T24733571
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Builders FirstSource (Lady Lake, FL),

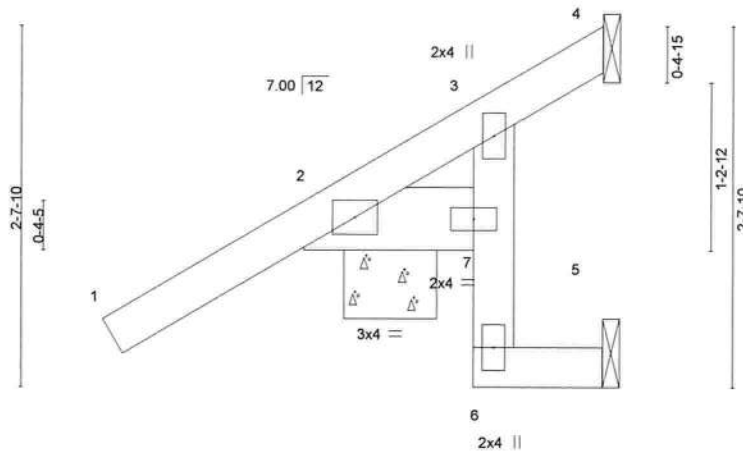
Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:31 2021 Page 1

ID:XJKHpyKrMokGaZufSxqpwYyxYI1-GO?91XK_ean0yvTTYQXDeIFAZ3ZVlg6hj5uXKhywQSU



Scale = 1:16.3



0-3-8
0-3-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.00	6	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						
								Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-8-4, 5=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 4=6(LC 9), 2=-99(LC 12)
Max Grav 4=24(LC 3), 2=331(LC 1), 5=15(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-4-12, Interior(1) 1-4-12 to 2-1-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4 and 99 lb uplift at joint 2.



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

July 20,2021

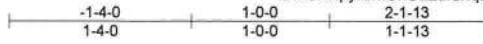
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



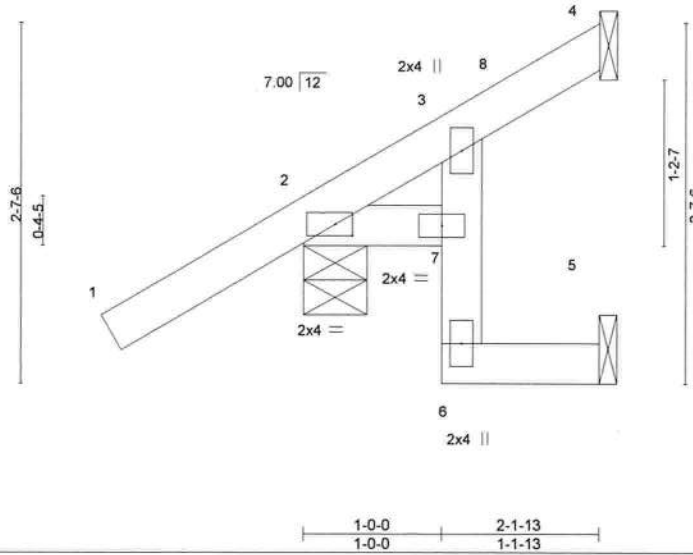
6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss C1W	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional) T24733572
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:32 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqpwYxYI1-kbZXFtLcPuvta32f573SBWWhMtSuG17Zqyle5s7ywQST



Scale: 3/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	2	>999	240	MT20	244/190
TCDL	25.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TP12014	Matrix-R							Weight: 12 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical
 Max Horz 2=70(LC 12)
 Max Uplift 4=-8(LC 9), 2=-89(LC 12)
 Max Grav 4=34(LC 17), 2=314(LC 1), 5=21(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-1-1 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 8 lb uplift at joint 4 and 89 lb uplift at joint 2.



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

July 20,2021

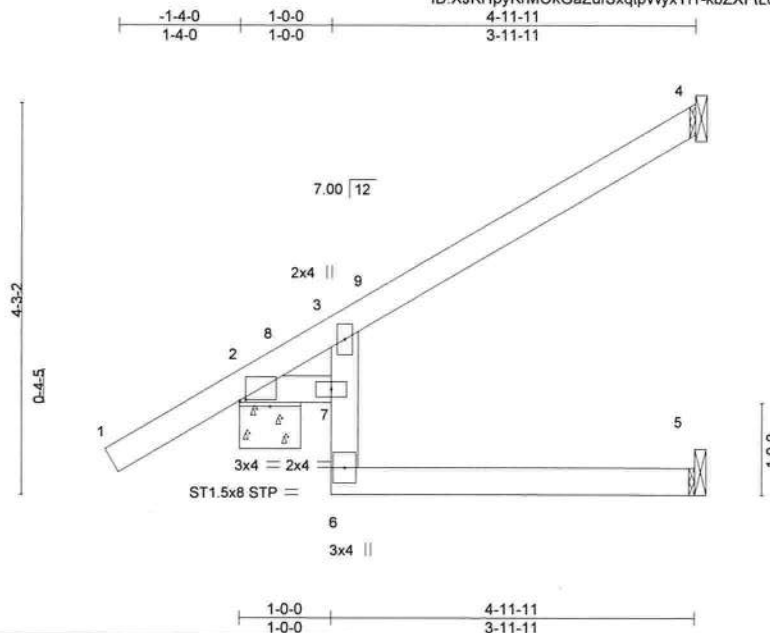
Job 1459442	Truss C2S	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional) T24733573
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:32 2021 Page 1

ID: XJKHpyKRMOkGaZufSxqtpWyY11-kbZXFtLcPuvta32f573SBWnKGSrp17Zqyle5s7ywQST



Scale: 1/2"=1'

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.28	Vert(CT)	-0.05	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.03	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 21 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
 Max Horz 2=118(LC 12)
 Max Uplift 4=50(LC 12), 2=-76(LC 12)
 Max Grav 4=169(LC 17), 2=438(LC 1), 5=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-10-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 50 lb uplift at joint 4 and 76 lb uplift at joint 2.



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 6904 Parke East Blvd. Tampa FL 33610
 Date:

July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20610



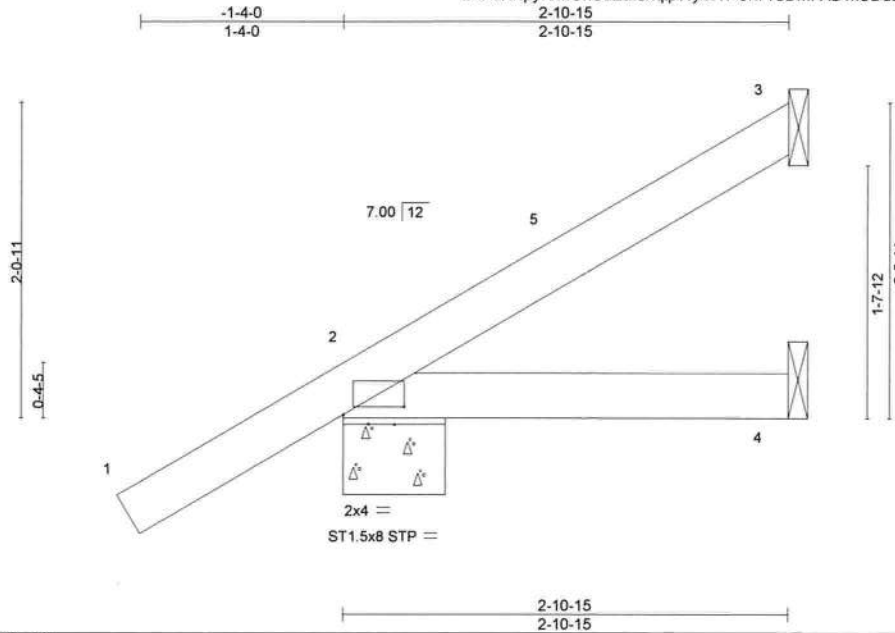
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss C3	Truss Type Jack-Open	Qty 10	Ply 1	T24733574
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:33 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-Cn7vSDMFAB1kCDDsfrahjjiKW5sENmap_APNePZywQSS



Scale = 1:14.5

Plate Offsets (X, Y)-- [2:0-4-12, 0:0-10]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	2-0-0	TC 0.29	Vert(LL)	-0.00	2-4	>999	MT20	244/190
TCDL 25.0	Lumber DOL 1.25		BC 0.07	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=83(LC 12)
Max Uplift 3=-21(LC 9), 2=-86(LC 12)
Max Grav 3=64(LC 17), 2=349(LC 1), 4=50(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) - 1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-10-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 3 and 86 lb uplift at joint 2.



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

July 20, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 33610

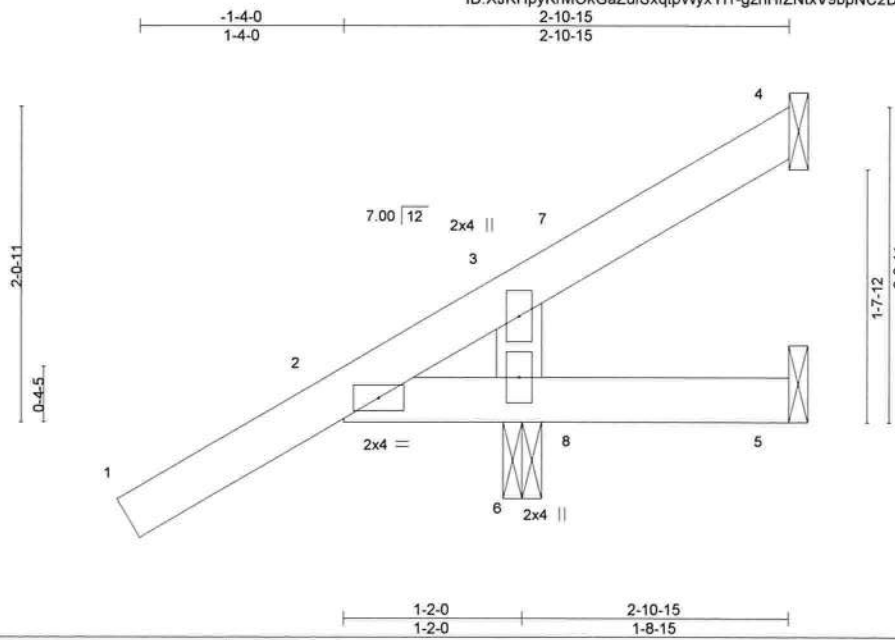
Job 1459442	Truss C3D	Truss Type JACK-OPEN	Qty 4	Ply 1	T24733575
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:34 2021 Page 1

ID: XJKHpyKrmOKGaZufSxqlpWyxYI1-gzhHfZntxV9bpNC2DY5wGxthzGWaV1A7P37Bx0ywQSR



Scale = 1:14.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	0.01	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-3-0
Max Horz 4=83(LC 12)
Max Uplift 4=-11(LC 10), 5=-84(LC 17), 6=-245(LC 12)
Max Grav 4=64(LC 12), 5=41(LC 12), 6=526(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-257/195

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-10-3 zone; cantilever left and right exposed; 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4, 84 lb uplift at joint 5 and 245 lb uplift at joint 6.



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

July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

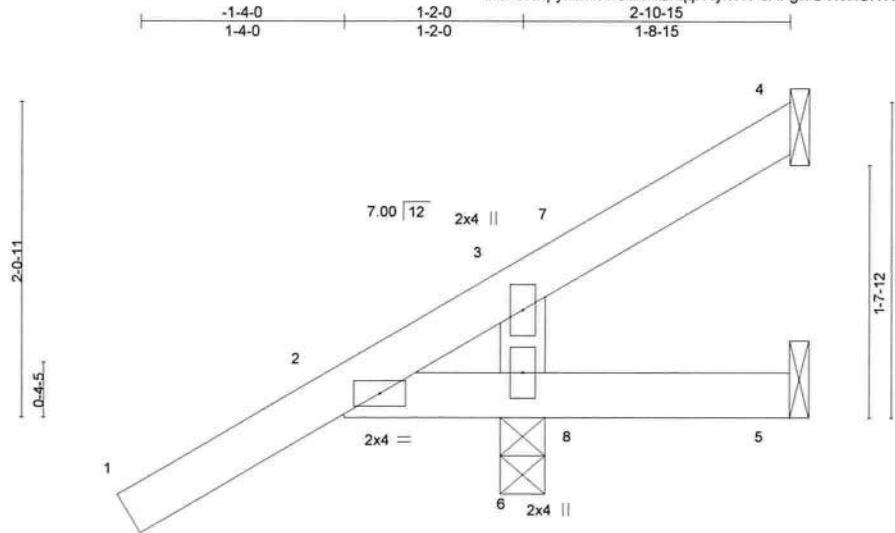
Job 1459442	Truss C3M	Truss Type JACK-OPEN STRUCTURAL	Qty 2	Ply 1	Job Reference (optional) T24733576
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:35 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxYI1-8AFgthOVioHSRWnEnGc9p8PsfgsjEUbHejsITSywQSQ



Scale = 1:14.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.00 5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	0.01 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.03 4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-3-8
Max Horz 6=83(LC 12)
Max Uplift 4=-14(LC 9), 5=-83(LC 17), 6=-164(LC 12)
Max Grav 4=7(LC 8), 5=24(LC 12), 6=533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-260/139

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-10-3 zone; cantilever left and right exposed; porch left exposed; 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 studs spaced at 2-0-0 oc.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4, 83 lb uplift at joint 5 and 164 lb uplift at joint 6.



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

July 20, 2021

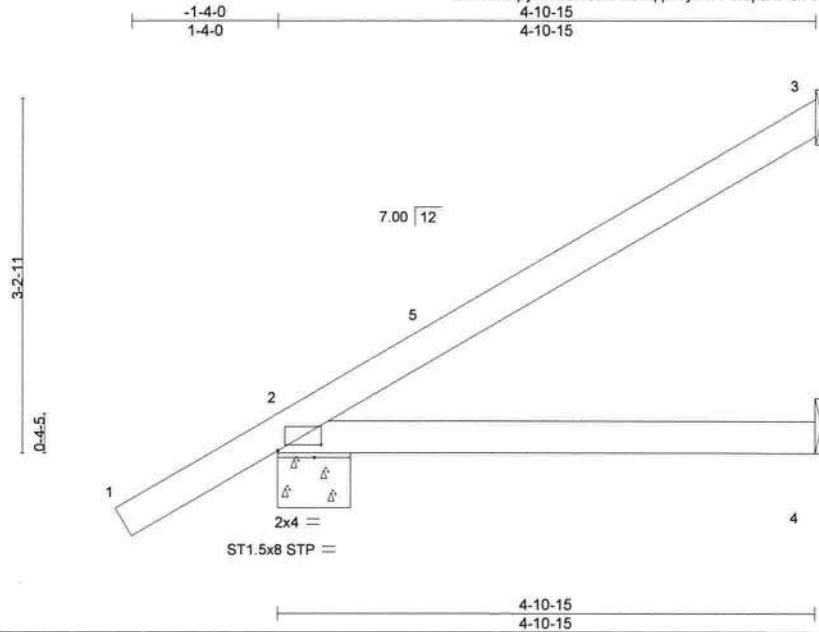
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE IIII 7473 rev 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss C5	Truss Type Jack-Open	Qty 8	Ply 1	Job Reference (optional) T24733577
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:36 2021 Page 1
 ID:XJKHpyKrMOKGaZuISxqtpWyxY11-cMp24F07T6PJ3gLQKz7OLMy7b4EHxzYQsNcl?uywQSP



Scale = 1:20.3

Plate Offsets (X,Y)-- [2:0-4-12,0-0-10]

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 0.40	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.05	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=117(LC 12)
 Max Uplift 3=-58(LC 12), 2=-77(LC 12)
 Max Grav 3=177(LC 17), 2=435(LC 1), 4=90(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-10-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 58 lb uplift at joint 3 and 77 lb uplift at joint 2.



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

July 20,2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss C14	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T24733578
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:28 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqtpWyxY11-rpK0PVl6LFP5S5kusi_W1gdhurYC5KaF17gtjMywQsX

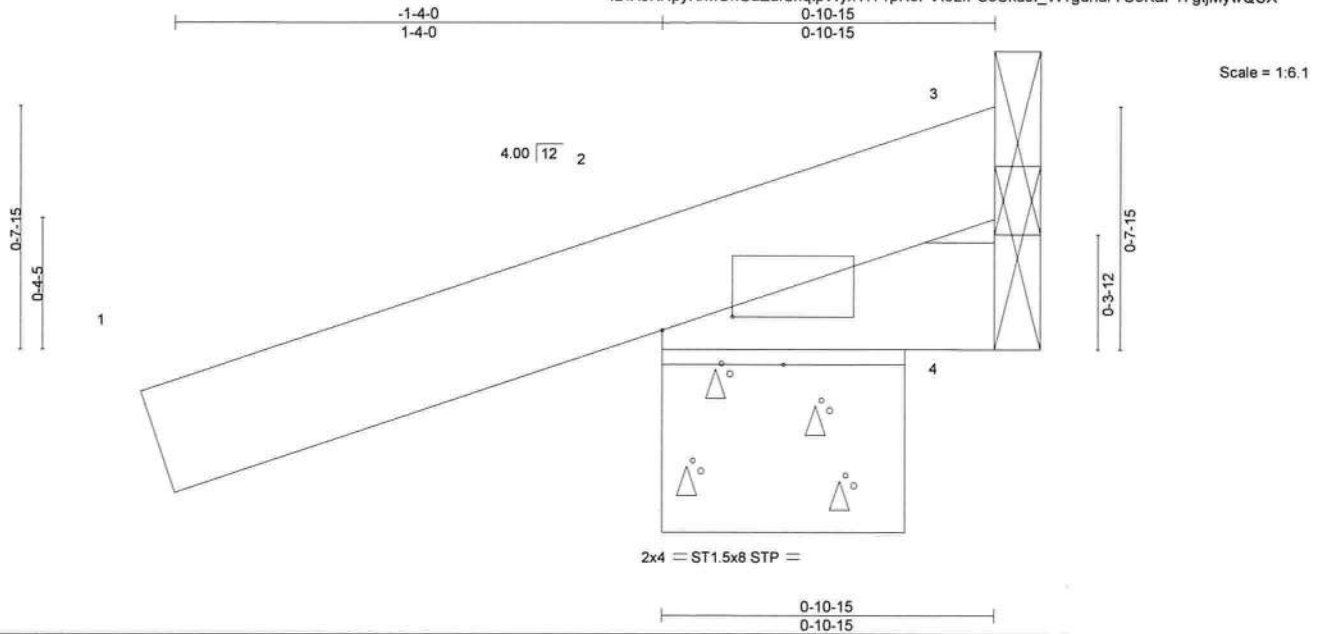


Plate Offsets (X,Y)--		[2-0-2-5,0-0-7]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	2	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=28(LC 12)
Max Uplift 3=-76(LC 1), 2=-102(LC 12)
Max Grav 3=38(LC 12), 2=289(LC 1), 4=17(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 76 lb uplift at joint 3 and 102 lb uplift at joint 2.



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Tampa, FL 36610

Job 1459442	Truss C34	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional)	T24733579
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:34 2021 Page 1
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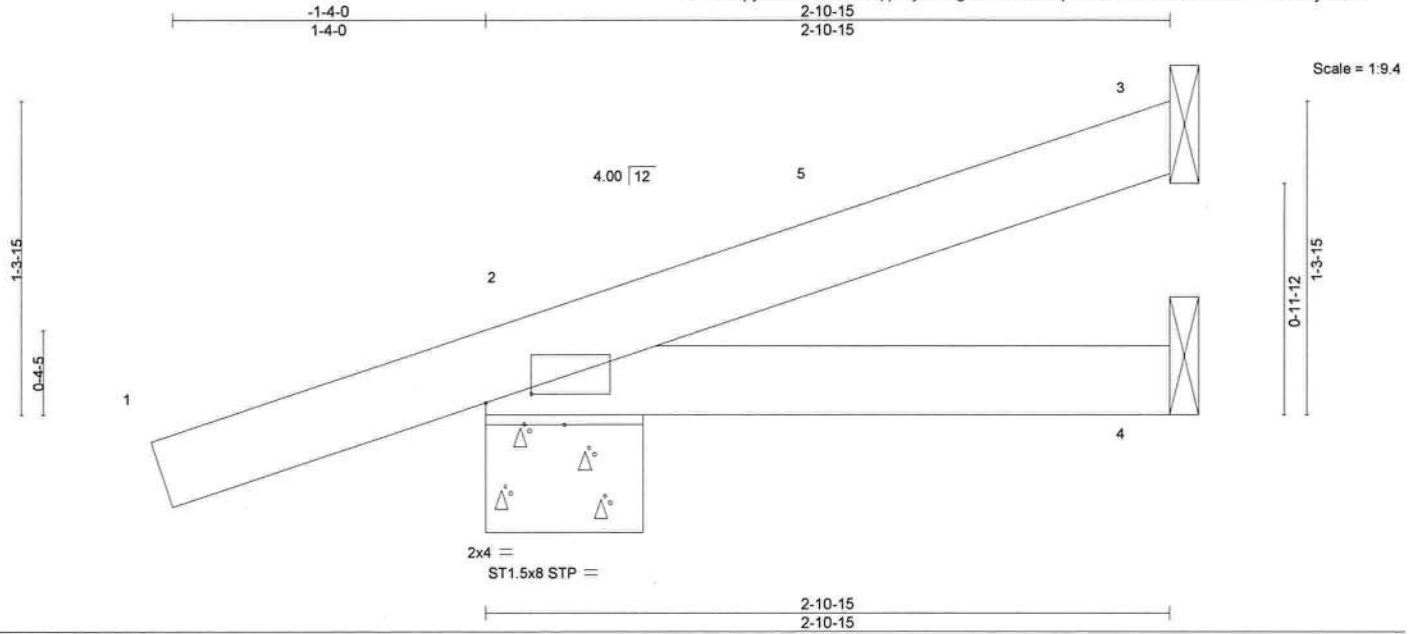


Plate Offsets (X,Y)-- [2:0-2-5,0-0-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P							
								Weight: 11 lb	FT = 20%	

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=47(LC 12)
Max Uplift 3=14(LC 9), 2=91(LC 12)
Max Grav 3=61(LC 1), 2=345(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 2-10-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 14 lb uplift at joint 3 and 91 lb uplift at joint 2.



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Tampa, FL 33610

Job 1459442	Truss C54	Truss Type Jack-Open	Qty 4	Ply 1	T24733580
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:36 2021 Page 1

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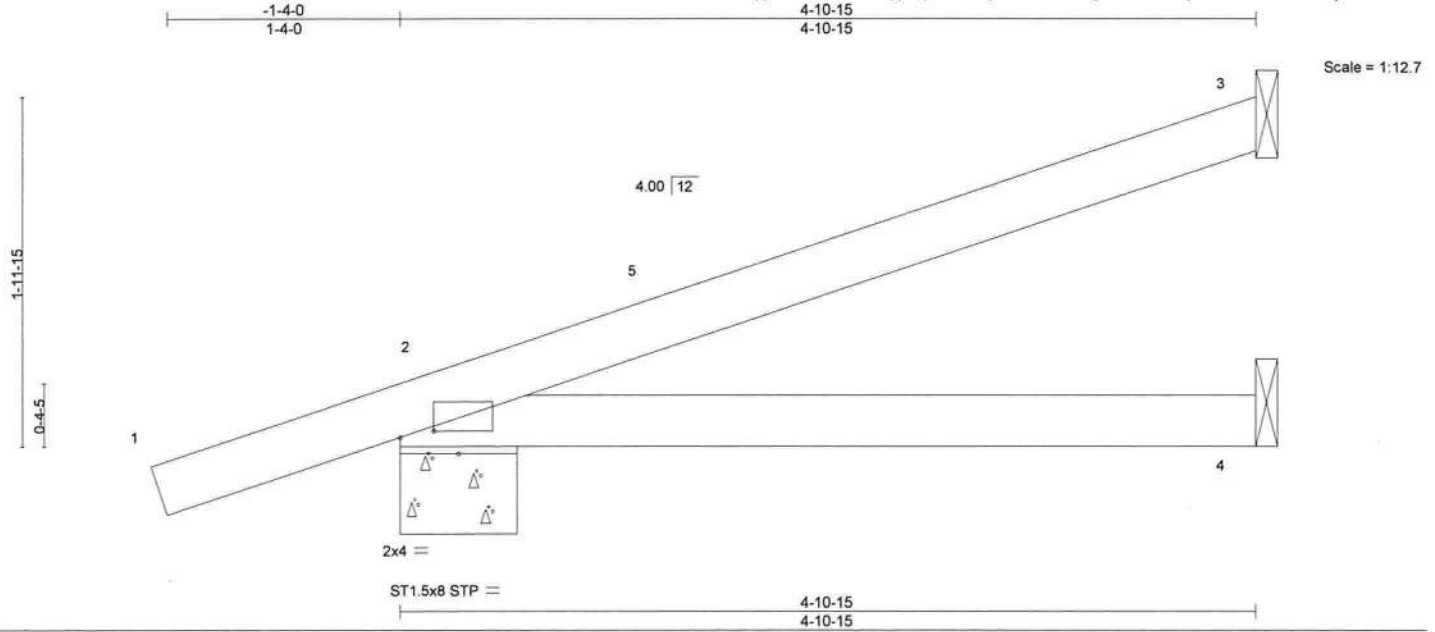


Plate Offsets (X,Y)-- [2:0-2-5,0-0-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.02	2-4	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.05	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=-43(LC 12), 2=-91(LC 12)
Max Grav 3=174(LC 1), 2=432(LC 1), 4=90(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 4-10-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 43 lb uplift at joint 3 and 91 lb uplift at joint 2.



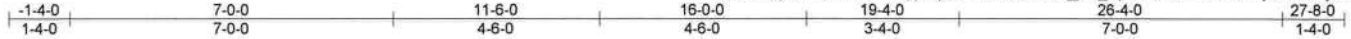
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

Job 1459442	Truss D1	Truss Type HIP GIRDER	Qty 1	Ply 2	Job Reference (optional)	T24733581
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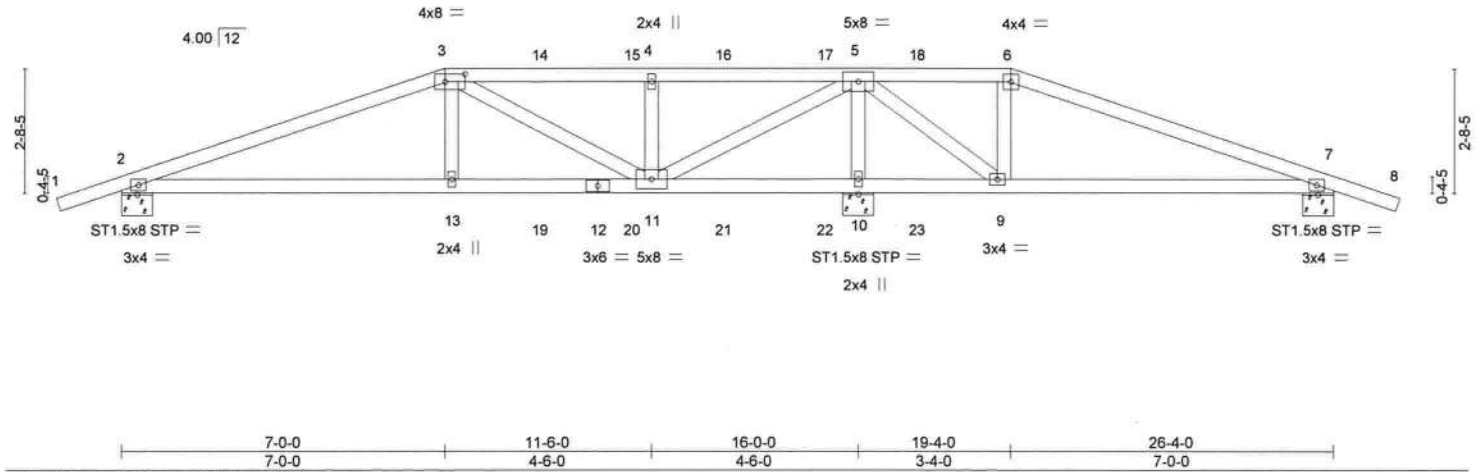
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:38 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-ZkwoVwQN_jf1_VpSO9sQn1Atr1RhPjKh5P4nywQSN



Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.04	2-13	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.12	2-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.02	10	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-SH					Weight: 231 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 10=0-8-0, 7=0-8-0
 Max Horz 2=31(LC 7)
 Max Uplift 2=-212(LC 8), 10=-573(LC 8), 7=-194(LC 8)
 Max Grav 2=1381(LC 17), 10=3942(LC 1), 7=514(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2697/327, 3-4=-1494/216, 4-5=-1494/216
 BOT CHORD 2-13=-248/2439, 11-13=-246/2472, 10-11=-1686/267, 9-10=-1686/267
 WEBS 3-13=0/681, 3-11=-1117/127, 4-11=-1000/259, 5-11=-449/3578, 5-10=-3728/631, 5-9=-367/2039, 6-9=-743/150

- NOTES-**
- 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: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2, 573 lb uplift at joint 10 and 194 lb uplift at joint 7.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down and 179 lb up at 7-0-0, 187 lb down and 98 lb up at 9-0-12, 187 lb down and 98 lb up at 11-0-12, 187 lb down and 98 lb up at 13-0-12, 187 lb down and 98 lb up at 13-3-4, 187 lb down and 98 lb up at 15-3-4, and 187 lb down and 98 lb up at 17-3-4, and 341 lb down and 179 lb up at 19-4-0 on top chord, and 367 lb down and 47 lb up at 7-0-0, 92 lb down at 9-0-12, 92 lb down at 11-0-12, 92 lb down at 13-0-12, 92 lb down at 13-3-4, 92 lb down at 15-3-4, and 92 lb down at 17-3-4, and 367 lb down and 18 lb up at 19-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Continued on page 2

LOAD CASE(S) - Standard

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 Tampa, FL 33610

Job 1459442	Truss D1	Truss Type HIP GIRDER	Qty 1	Ply 2	T24733581 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:38 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-6=-90, 6-8=-90, 2-7=-20

Concentrated Loads (lb)

Vert: 3=-294(F) 6=-294(F) 13=-350(F) 9=-350(F) 14=-187(F) 15=-187(F) 16=-374(F) 17=-187(F) 18=-187(F) 19=-46(F) 20=-46(F) 21=-92(F) 22=-46(F) 23=-46(F)

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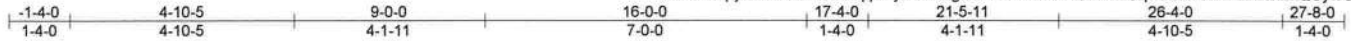


Job 1459442	Truss D2	Truss Type HIP	Qty 1	Ply 1	Job Reference (optional) T24733582
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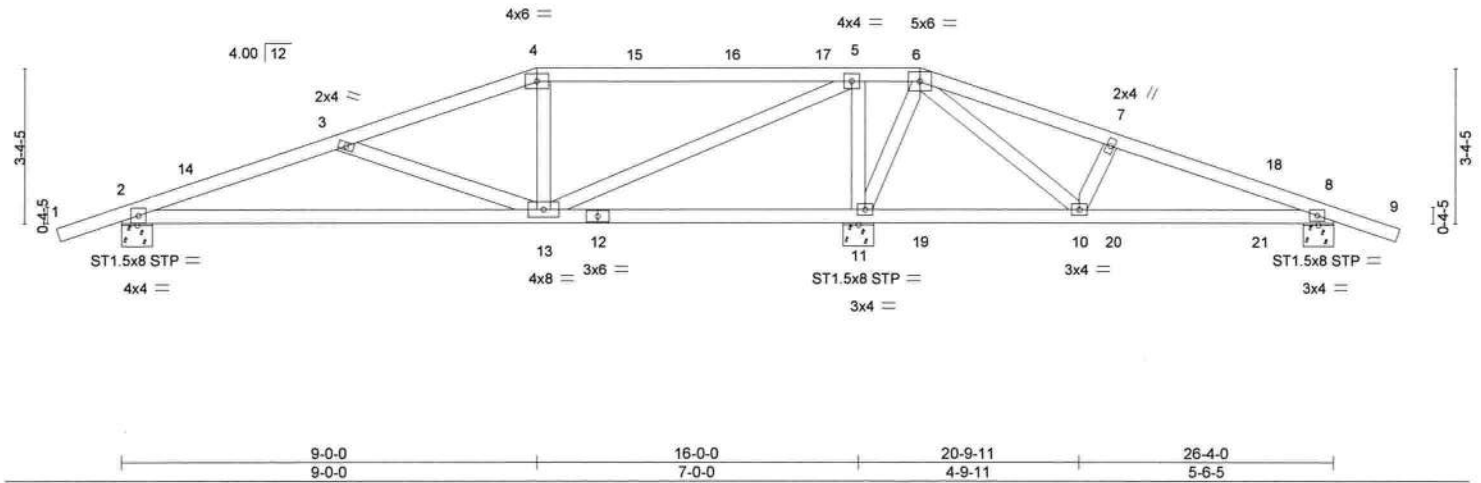
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:48 2021 Page 1

ID: XJKHpyKrMOKGaZufSqtpWyxYl1-GgXablYfeowcVWGk1ULCquSwKvCknFoBdEWxQCywQSD



Scale: 1/4"=1'



LOADING (psf) TCLL 20.0 TCDL 25.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	2-0-0 1.25 1.25 YES FBC2020/TPI2014	CSI. TC 0.93 BC 0.72 WB 0.56 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 2-13 >999 240 Vert(CT) -0.30 2-13 >627 180 Horz(CT) 0.01 11 n/a n/a	PLATES GRIP MT20 244/190 Weight: 123 lb FT = 20%
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-8-0, 11=0-8-0, 8=0-8-0
Max Horz 2=-39(LC 10)
Max Uplift 2=-131(LC 12), 11=-314(LC 12), 8=-183(LC 12)
Max Grav 2=883(LC 21), 11=1809(LC 1), 8=497(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1404/216, 3-4=-842/62, 4-5=-730/78, 5-6=-235/677, 6-7=-196/425, 7-8=-366/426
BOT CHORD 2-13=-153/1258, 11-13=-676/365, 10-11=-506/234, 8-10=-359/282
WEBS 3-13=-554/213, 4-13=-251/160, 5-13=-324/1470, 5-11=-1298/372, 6-11=-427/342, 6-10=-697/705, 7-10=-407/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 17-4-0, Exterior(2R) 17-4-0 to 21-6-7, Interior(1) 21-6-7 to 27-8-9 zone; cantilever left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2, 314 lb uplift at joint 11 and 183 lb uplift at joint 8.



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Date:

July 20,2021

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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

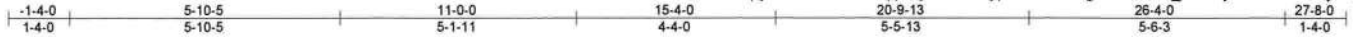


Job 1459442	Truss D3	Truss Type HIP	Qty 1	Ply 1	Job Reference (optional)	T24733583
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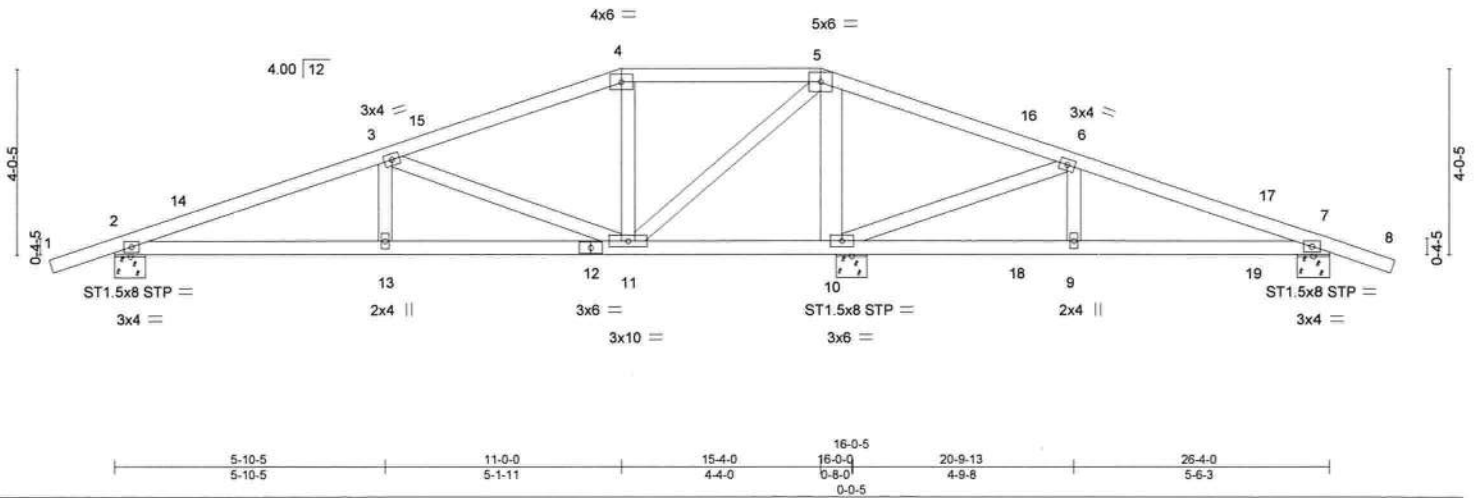
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:49 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxY11-ks5yphYHP62T6grwbCsRN5_9WJdyWiuKsuFUzeywQSC



Scale: 1/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.40	Vert(LL) 0.04 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.57	Vert(CT) -0.09 2-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 126 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-10: 2x6 SP No.2	

REACTIONS. (size) 2=0-8-0, 10=0-8-0, 7=0-8-0
 Max Horz 2=46(LC 11)
 Max Uplift 2=-122(LC 12), 10=-333(LC 12), 7=-183(LC 12)
 Max Grav 2=824(LC 21), 10=1900(LC 1), 7=493(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1228/109, 3-4=-316/16, 5-6=-305/945, 6-7=-320/397
 BOT CHORD 2-13=-47/1079, 11-13=-47/1079, 10-11=-740/379, 9-10=-328/232, 7-9=-328/232
 WEBS 3-11=-924/228, 4-11=-349/171, 5-11=-277/1150, 6-10=-973/773, 6-9=-309/224,
 5-10=-1467/418

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 11-0-0, Exterior(2E) 11-0-0 to 15-4-0, Exterior(2R) 15-4-0 to 19-6-15, Interior(1) 19-6-15 to 27-8-9 zone; cantilever left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 333 lb uplift at joint 10 and 183 lb uplift at joint 7.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



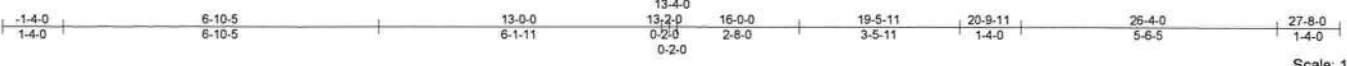
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss D4	Truss Type HIP	Qty 1	Ply 1	Job Reference (optional) T24733584
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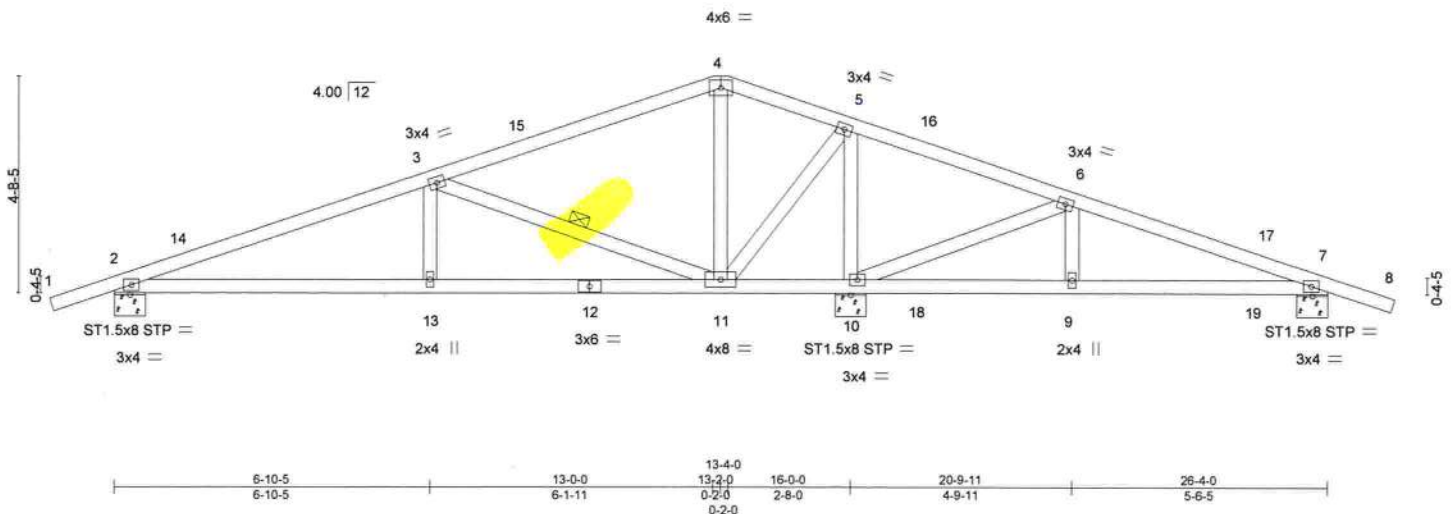
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:50 2021 Page 1

ID: XJKHpyKrMOKGaZufSxtpWyxY11-C2FL01ZvAPAKkqQ79vNgwJXJ7jxDF9_U5Y?2V4ywQSB



Scale: 1/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.53	Vert(LL) -0.05 2-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.45	Vert(CT) -0.14 2-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 124 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-11

REACTIONS.

(size) 2=0-8-0, 10=0-8-0, 7=0-8-0
 Max Horz 2=55(LC 11)
 Max Uplift 2=-128(LC 12), 10=-321(LC 12), 7=-179(LC 12)
 Max Grav 2=859(LC 21), 10=1858(LC 1), 7=491(LC 22)

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

TOP CHORD 2-3=-1258/114, 5-6=-262/871, 6-7=-294/331
 BOT CHORD 2-13=-46/1099, 11-13=-46/1099, 10-11=-766/364, 9-10=-264/205, 7-9=-264/205
 WEBS 3-13=0/291, 3-11=-1177/271, 4-11=-396/172, 5-10=-1457/349, 5-11=-246/1140, 6-9=-282/222, 6-10=-873/661

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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 13-2-0, Exterior(2R) 13-2-0 to 17-4-15, Interior(1) 17-4-15 to 27-8-9 zone; cantilever left and right exposed; porch 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) 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 128 lb uplift at joint 2, 321 lb uplift at joint 10 and 179 lb uplift at joint 7.



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

Job 1459442	Truss D5	Truss Type COMMON	Qty 4	Ply 1	Job Reference (optional)	T24733585
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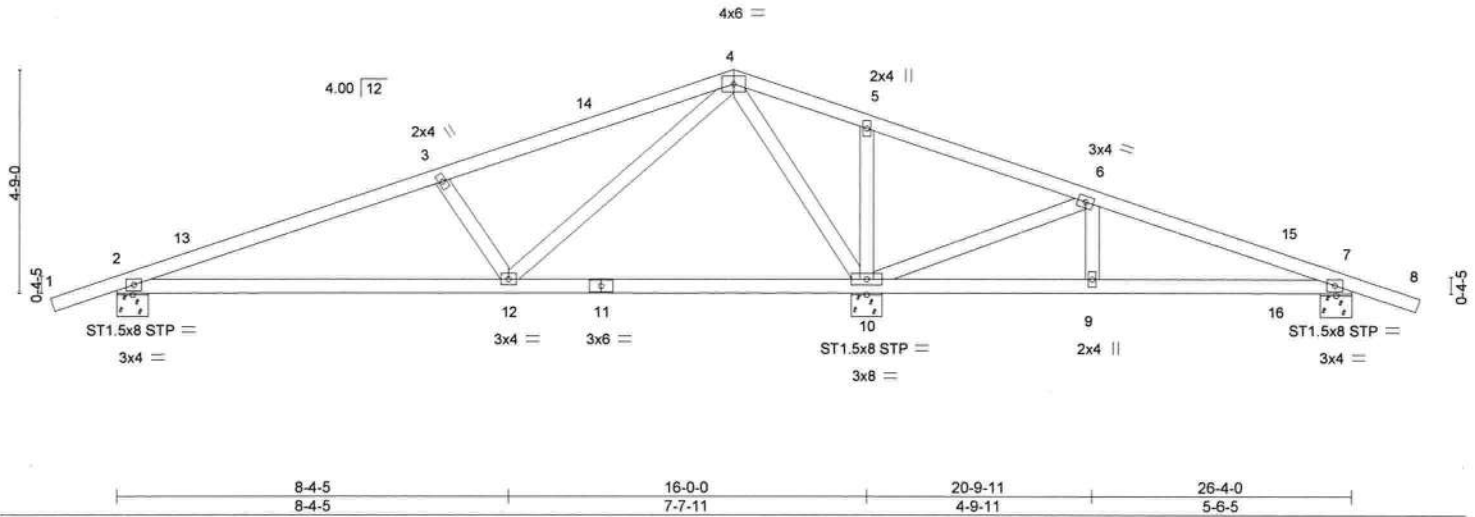
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:51 2021 Page 1

ID: XJKHpyKfMokGaZufSxqtpWyxY11-gFDJENaXwjlBM_?JduvSW4UZ7E5_YAdJCb1WYwQSA



Scale = 1:47.3



	8-4-5 8-4-5	16-0-0 7-7-11	20-9-11 4-9-11	26-4-0 5-6-5	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.68	Vert(LL) -0.09 2-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.71	Vert(CT) -0.24 2-12 >790 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 120 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 10-0-0 oc bracing: 2-12.

REACTIONS. (size) 2=0-8-0, 10=0-8-0, 7=0-8-0
 Max Horz 2=55(LC 10)
 Max Uplift 2=126(LC 12), 10=327(LC 12), 7=176(LC 12)
 Max Grav 2=852(LC 21), 10=1882(LC 1), 7=478(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1203/101, 3-4=-860/81, 4-5=-238/879, 5-6=-290/905, 6-7=-251/320
 BOT CHORD 2-12=-35/1049, 9-10=-254/164, 7-9=-254/164
 WEBS 3-12=-617/215, 4-12=-155/1032, 4-10=-1310/343, 5-10=-356/124, 6-10=-859/677,
 6-9=-296/196

- 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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 13-2-0, Exterior(2R) 13-2-0 to 16-0-0, Interior(1) 16-0-0 to 27-8-9 zone; cantilever left and right exposed; porch 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) 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 126 lb uplift at joint 2, 327 lb uplift at joint 10 and 176 lb uplift at joint 7.



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 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

Job 1459442	Truss D6	Truss Type COMMON	Qty 1	Ply 1	Job Reference (optional) T24733586
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:52 2021 Page 1

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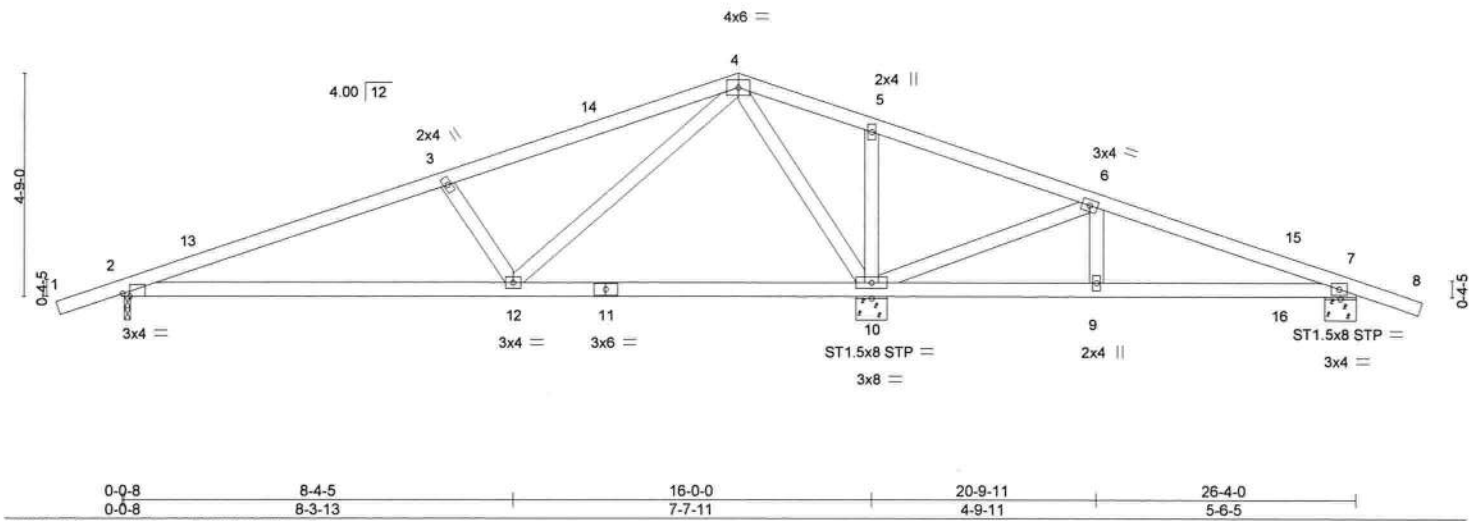


Plate Offsets (X,Y)--	[2:0-1-13,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	-0.11	2-12	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.29	2-12	>670		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 120 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing; 2-12.

REACTIONS. (size) 2=0-1-8, 10=0-8-0, 7=0-8-0
Max Horz 2=-55(LC 10)
Max Uplift 2=-117(LC 12), 10=-332(LC 12), 7=-174(LC 12)
Max Grav 2=834(LC 21), 10=1920(LC 1), 7=470(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1241/108, 3-4=-885/86, 4-5=-244/923, 5-6=-296/950, 6-7=-227/314
BOT CHORD 2-12=-42/1090
WEBS 3-12=-650/221, 4-12=-163/1087, 4-10=-1354/348, 5-10=-358/125, 6-10=-863/678,
6-9=-296/197

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 13-2-0, Exterior(2R) 13-2-0 to 16-0-0, Interior(1) 16-0-0 to 27-8-9 zone; cantilever left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2, 332 lb uplift at joint 10 and 174 lb uplift at joint 7.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

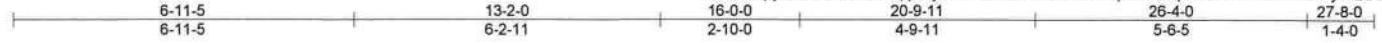
Job 1459442	Truss D7	Truss Type COMMON	Qty 1	Ply 1	T24733587
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

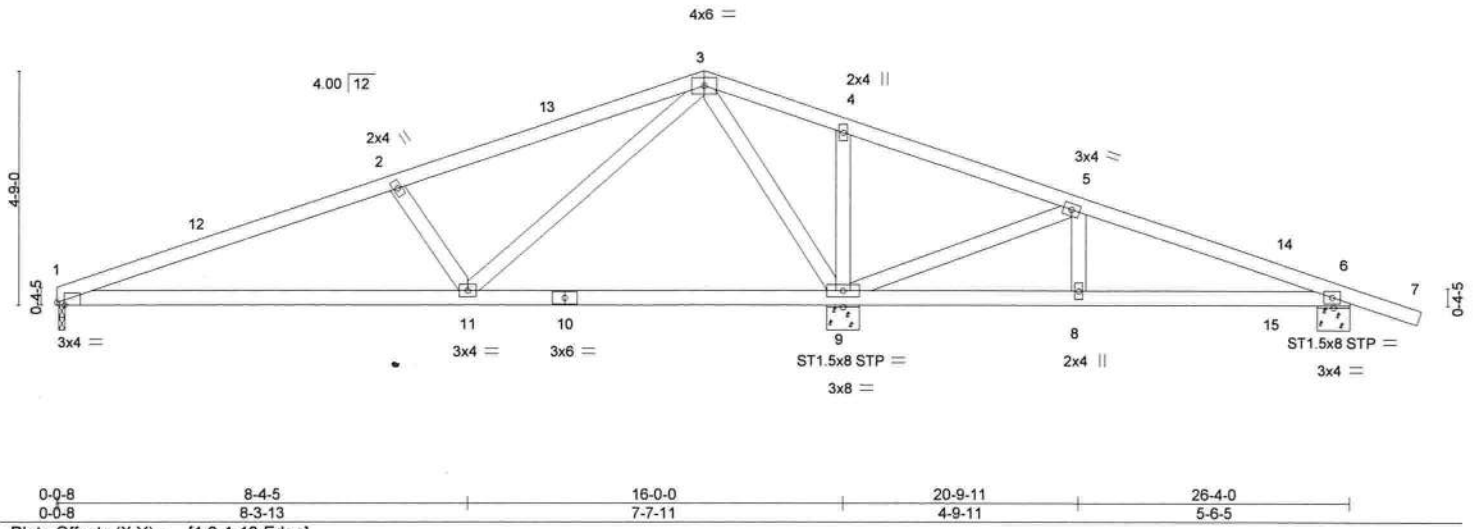
8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:53 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyY11-cdKTf3bnSKYvbl9iq2xNXx9pawvMSSAwnWDI6PywQS8

Job Reference (optional)



Scale = 1:45.1



0-0-8	8-4-5	16-0-0	20-9-11	26-4-0
0-0-8	8-3-13	7-7-11	4-9-11	5-6-5

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	2-0-0	Plate Grip DOL	1.25	TC	0.83	in (loc)	l/defl	L/d	MT20	244/190
TCDL	25.0	Lumber DOL	1.25	BC	0.75	Vert(LL)	-0.11	1-11	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Vert(CT)	-0.30	1-11	>630	180	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH		Horz(CT)	0.01	9	n/a	n/a	
										Weight: 118 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS	2x4 SP No.3		10-0-0 oc bracing: 1-11.

REACTIONS. (size) 1=0-1-8, 9=0-8-0, 6=0-8-0

Max Horz 1=-56(LC 10)

Max Uplift 1=-63(LC 12), 9=-337(LC 12), 6=-173(LC 12)

Max Grav 1=696(LC 21), 9=1932(LC 1), 6=468(LC 22)

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

TOP CHORD 1-2=-1262/117, 2-3=-904/94, 3-4=-253/934, 4-5=-306/961, 5-6=-221/306

BOT CHORD 1-11=-52/1113

WEBS 2-11=-662/224, 3-11=-170/1114, 3-9=-1369/352, 4-9=-358/126, 5-9=-865/679, 5-8=-297/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 13-2-0, Exterior(2R) 13-2-0 to 16-0-0, Interior(1) 16-0-0 to 27-8-9 zone; cantilever left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 337 lb uplift at joint 9 and 173 lb uplift at joint 6.



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

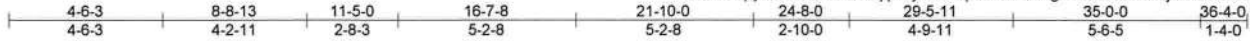
July 20,2021

Job 1459442	Truss D8	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	T24733588
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:54 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-5pursOcQDeglDRkuOISc49ixjKDeBw44?AzFerywQS7



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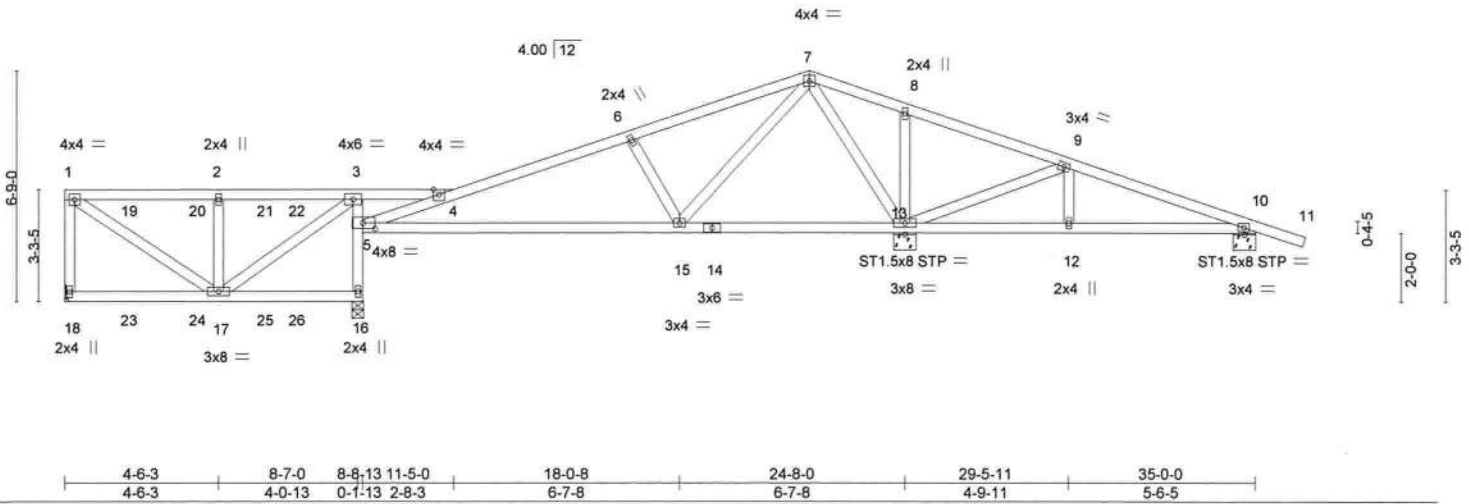


Plate Offsets (X,Y)--	[5:0-4:4,0-2:0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	-0.18	5-15	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.43	5-15	>450	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.70	Horz(CT)	-0.08	10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 3-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 4-5-14 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-8-0 except (jt=length) 18=Mechanical, 16=0-4-3.
 (lb) - Max Horz 18=-56(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except 18=-109(LC 4), 16=-286(LC 8), 13=-326(LC 8), 10=-177(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 18=627(LC 17), 16=2456(LC 17), 13=1869(LC 1), 10=483(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-18=-572/129, 1-2=-518/99, 2-3=-518/99, 4-5=-1164/90, 4-6=-965/91, 6-7=-720/75, 7-8=-71/859, 8-9=-114/893, 9-10=-268/205
 BOT CHORD 5-16=-1468/200, 3-5=-977/189, 5-15=-17/895
 WEBS 1-17=-113/583, 2-17=-541/195, 3-17=-100/663, 6-15=-623/159, 7-15=-87/971, 7-13=-1293/152, 8-13=-371/94, 9-13=-867/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 18, 286 lb uplift at joint 16, 326 lb uplift at joint 13 and 177 lb uplift at joint 10.
 - 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) 128 lb down and 77 lb up at 1-9-12, 128 lb down and 77 lb up at 3-9-12, and 128 lb down and 77 lb up at 5-9-12, and 128 lb down and 77 lb up at 6-8-12 on top chord, and 52 lb down at 1-9-12, 52 lb down at 3-9-12, 52 lb down at 5-9-12, and 52 lb down at 6-8-12, and 950 lb down and 120 lb up at 8-7-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Joaquin Velez PE No.68182
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 Date: July 20,2021

LOAD CASE(S) Standard

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 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
1459442	D8	ROOF SPECIAL GIRDER	1	1	T24733588

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:54 2021 Page 2

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Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-7=-90, 7-11=-90, 16-18=-20, 5-10=-20

Concentrated Loads (lb)

Vert: 16=-950 19=-88(F) 20=-88(F) 21=-88(F) 22=-88(F) 23=-26(F) 24=-26(F) 25=-26(F) 26=-26(F)

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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



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Tampa, FL 36610

Job 1459442	Truss D9	Truss Type ROOF SPECIAL	Qty 1	Ply 1	T24733589
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:55 2021 Page 1
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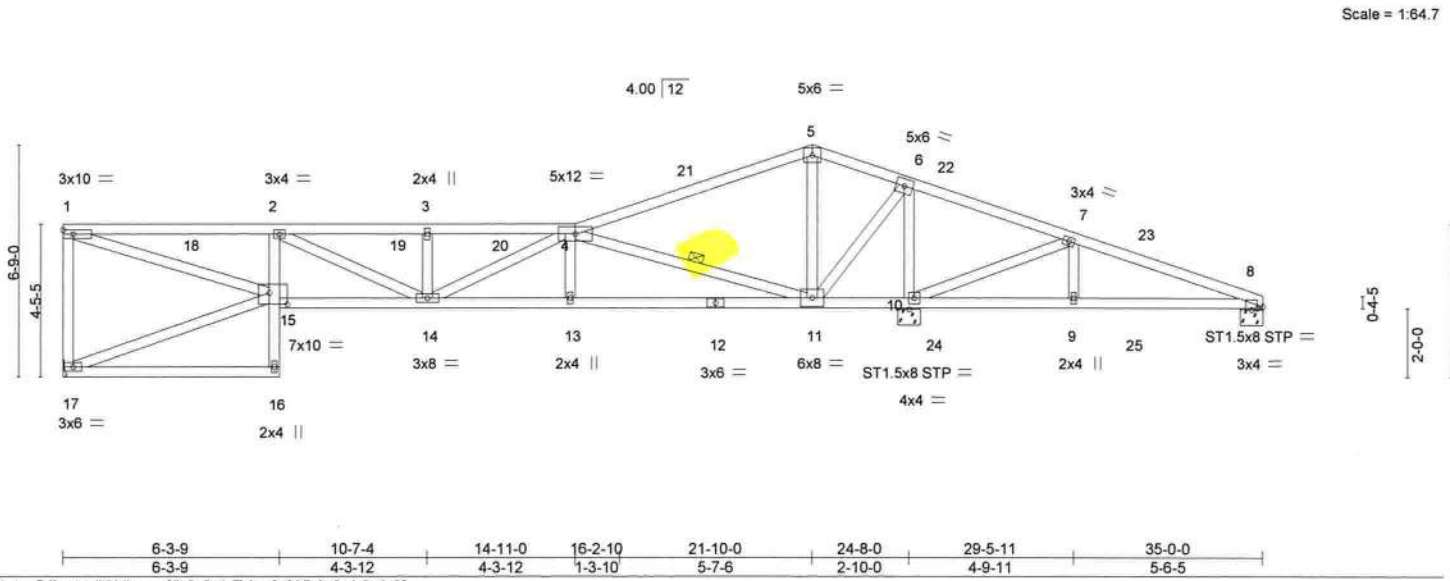


Plate Offsets (X,Y)-- [8:0-2-1,Edge], [15:0-6-4,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.93	Vert(LL)	-0.13	14	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.35	14-15	>850	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.14	10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH							
								Weight: 191 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-10-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-11

REACTIONS. (size) 17=Mechanical, 8=0-8-0, 10=0-8-0
 Max Horz 17=-62(LC 12)
 Max Uplift 17=-130(LC 8), 8=-384(LC 21), 10=-433(LC 12)
 Max Grav 17=1043(LC 21), 8=19(LC 22), 10=2987(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-975/174, 1-2=-2279/296, 2-3=-2321/272, 3-4=-2321/272, 4-5=-192/858,
 5-6=-158/807, 6-7=-460/2336, 7-8=-41/1565
 BOT CHORD 2-15=-539/158, 14-15=-211/2293, 13-14=-84/1686, 11-13=-87/1678, 10-11=-2160/534,
 9-10=-1420/50, 8-9=-1420/50
 WEBS 1-15=-306/2361, 3-14=-347/98, 4-14=-137/730, 4-11=-2464/390, 5-11=-943/271,
 6-11=-394/2289, 6-10=-2551/477, 7-10=-1021/709, 7-9=-294/241


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-7-12, Interior(1) 3-7-12 to 21-10-0, Exterior(2R) 21-10-0 to 25-4-0, Interior(1) 25-4-0 to 34-8-0 zone; cantilever left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 17, 384 lb uplift at joint 8 and 433 lb uplift at joint 10.



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

July 20,2021

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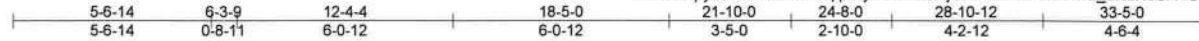
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss D10	Truss Type Roof Special	Qty 1	Ply 1	T24733590
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:39 2021 Page 1

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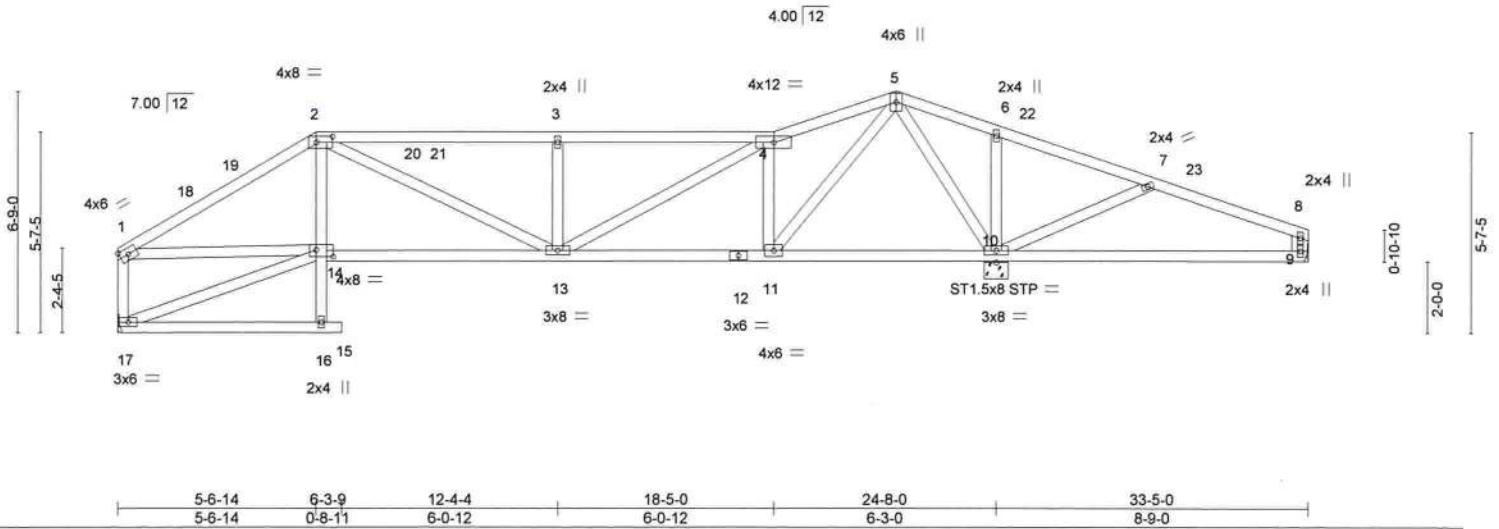


Plate Offsets (X,Y)--	[2:0-5-8,0-2-0], [14:0-5-12,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.91	Vert(LL) -0.17	9-10	>609	240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.67	Vert(CT) -0.33	9-10	>314	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.09	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9: 2x6 SP No.2	

REACTIONS. (size) 10=0-8-0, 9=Mechanical, 17=Mechanical
 Max Horz 17=-71(LC 10)
 Max Uplift 10=-259(LC 12), 9=-7(LC 12), 17=-127(LC 12)
 Max Grav 10=2184(LC 1), 9=205(LC 22), 17=1293(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2093/379, 2-3=-2402/456, 3-4=-2402/456, 4-5=-1787/347, 5-6=-87/640,
 6-7=-134/664, 1-17=-1252/268
 BOT CHORD 13-14=-294/1720, 11-13=-198/1584, 10-11=0/458
 WEBS 2-13=-91/759, 3-13=-652/197, 4-13=-193/994, 4-11=-1391/327, 5-11=-365/1900,
 5-10=-1656/345, 6-10=-346/132, 7-10=-634/221, 1-14=-237/1630

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-5-14, Interior(1) 3-5-14 to 5-6-14, Exterior(2R) 5-6-14 to 8-11-0, Interior(1) 8-11-0 to 21-10-0, Exterior(2R) 21-10-0 to 25-2-2, Interior(1) 25-2-2 to 33-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 10, 7 lb uplift at joint 9 and 127 lb uplift at joint 17.



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July 20,2021

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Job	Truss	Truss Type	Qty	Ply	
1459442	D11	Hip	1	1	T24733591

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:40 2021 Page 1
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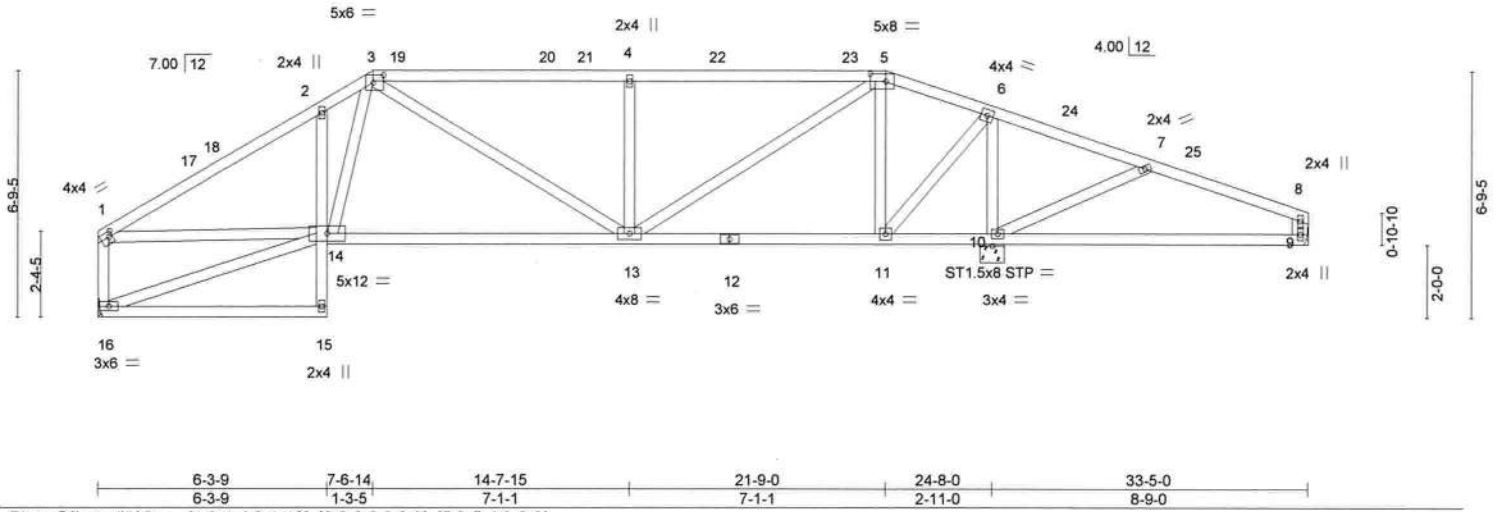


Plate Offsets (X,Y)-- [1:0-1-4,0-1-12], [3:0-3-8,0-2-8], [5:0-5-4,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.94	Vert(LL)	-0.17 9-10	>592	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.36 13-14	>820	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-15: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 8-9: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 10=0-8-0, 16=Mechanical, 9=Mechanical
 Max Horz 16=-80(LC 10)
 Max Uplift 10=-259(LC 12), 16=-131(LC 12), 9=-8(LC 12)
 Max Grav 10=2172(LC 1), 16=1287(LC 21), 9=212(LC 3)

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

TOP CHORD 1-2=-2043/402, 2-3=-1956/511, 3-4=-1716/380, 4-5=-1715/381, 5-6=-587/139,
 6-7=-133/653, 1-16=-1250/278
 BOT CHORD 2-14=-402/232, 13-14=-239/1482, 11-13=-1/512, 10-11=-566/201
 WEBS 3-13=-39/304, 4-13=-730/230, 5-13=-286/1478, 5-11=-1068/262, 6-11=-320/1475,
 6-10=-1736/414, 7-10=-622/221, 1-14=-256/1574, 3-14=-198/577

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-5-14, Interior(1) 3-5-14 to 7-6-14, Exterior(2R) 7-6-14 to 12-3-9, Interior(1) 12-3-9 to 21-9-0, Exterior(2R) 21-9-0 to 26-5-11, Interior(1) 26-5-11 to 33-2-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 10, 131 lb uplift at joint 16 and 8 lb uplift at joint 9.



Joaquin Velez PE No.68182
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 Date:

July 20,2021

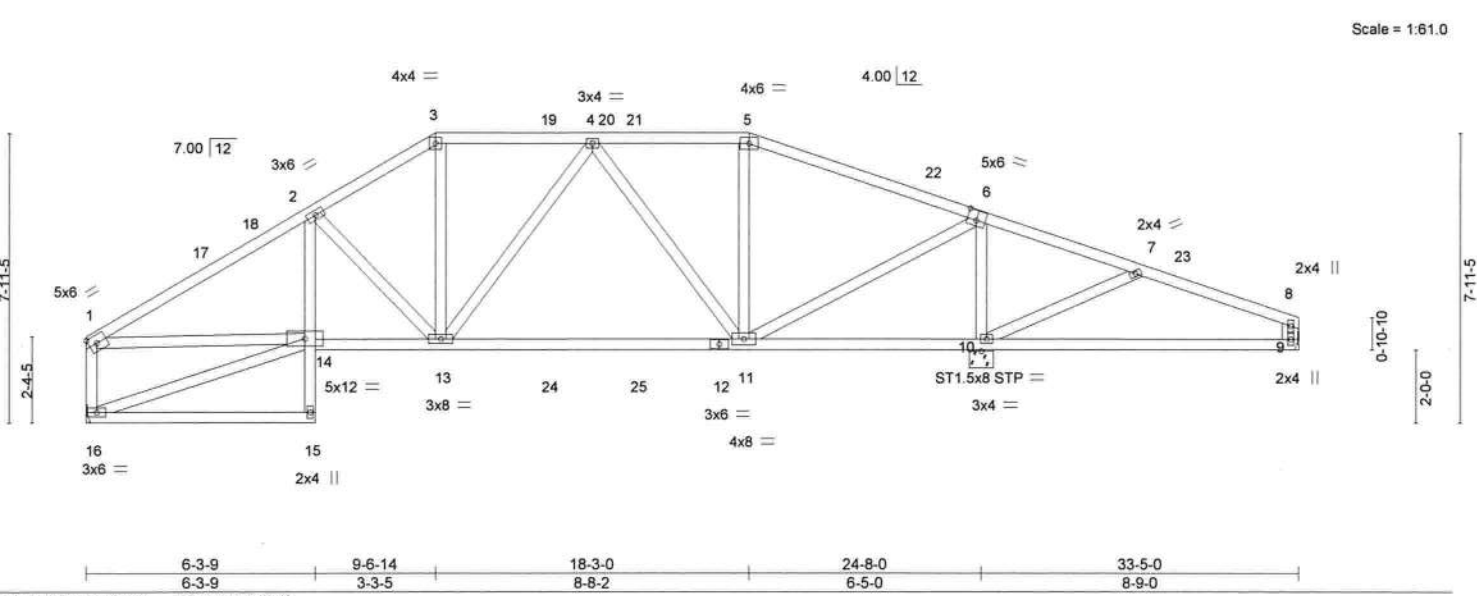
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Miti 7473 rev 5/19/2020 BEFORE USE
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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss D12	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional)	T24733592
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Scale = 1:61.0

Plate Offsets (X,Y)--	[6:0-3-0,0-3-4]
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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 0.70	Vert(LL)	-0.19	9-10	>549	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.36	9-10	>284	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.07	10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-SH							
								Weight: 198 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.3 *Except* 8-9: 2x6 SP No.2	

REACTIONS. (size) 10=0-8-0, 9=Mechanical, 16=Mechanical
 Max Horz 16=-103(LC 10)
 Max Uplift 10=-255(LC 12), 9=-11(LC 12), 16=-132(LC 12)
 Max Grav 10=2249(LC 19), 9=258(LC 18), 16=1390(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2212/426, 2-3=-1750/383, 3-4=-1454/360, 4-5=-1026/281, 5-6=-1177/263,
 6-7=-110/588, 1-16=-1322/283
 BOT CHORD 13-14=-331/1860, 11-13=-192/1413, 10-11=-436/162
 WEBS 2-13=-553/214, 3-13=-99/576, 4-11=-592/165, 6-11=-295/1604, 6-10=-1753/423,
 7-10=-534/191, 1-14=-283/1709

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-5-14, Interior(1) 3-5-14 to 9-6-14, Exterior(2R) 9-6-14 to 14-3-9, Interior(1) 14-3-9 to 18-3-0, Exterior(2R) 18-3-0 to 22-11-11, Interior(1) 22-11-11 to 33-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 255 lb uplift at joint 10, 11 lb uplift at joint 9 and 132 lb uplift at joint 16.

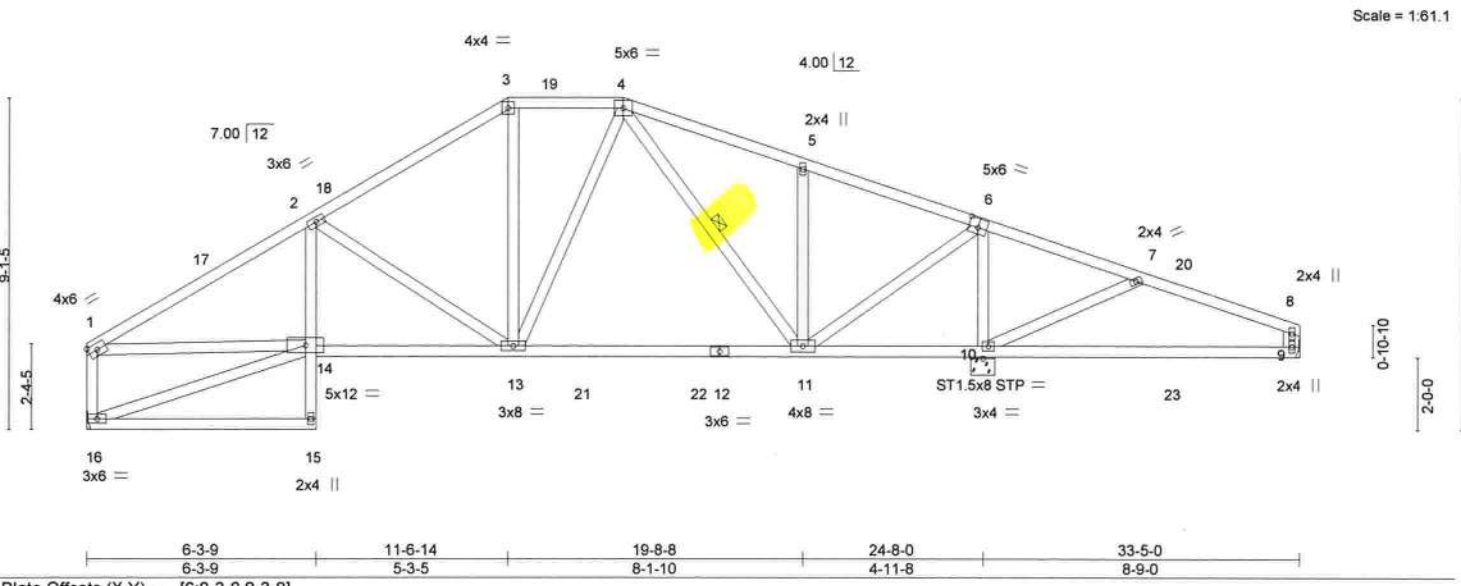


Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

July 20,2021

Job 1459442	Truss D13	Truss Type HIP	Qty 1	Ply 1	Job Reference (optional)	T24733593
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:43 2021 Page 1
 ID: XJKHpyKrMOKGaZurSxqtpWyxY11-vikhYeUWpGIJOiOnFxl17qI8HuUO6zKSUzoAl_ywQSI



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL) 0.40	9-10	>253	240	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.80	Vert(CT) -0.37	9-10	>277	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.64	Horz(CT) 0.07	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 203 lb	FT = 20%
	Code FBC2020/TP12014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.3 *Except* 8-9: 2x6 SP No.2	WEBS 1 Row at midpt 4-11

REACTIONS.
(size) 10=0-8-0, 16=Mechanical, 9=Mechanical
Max Horz 16=-126(LC 10)
Max Uplift 10=-363(LC 12), 16=-126(LC 12), 9=-79(LC 12)
Max Grav 10=2256(LC 2), 16=1387(LC 17), 9=249(LC 24)


FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2234/386, 2-3=-1550/316, 3-4=-1247/323, 4-5=-992/213, 5-6=-988/140, 6-7=-126/638, 1-16=-1326/257
BOT CHORD 13-14=-307/1926, 11-13=-74/1141, 10-11=-495/184
WEBS 2-13=-769/241, 3-13=-41/384, 4-13=-77/365, 4-11=-398/142, 5-11=-475/189, 6-11=-216/1622, 6-10=-1780/324, 7-10=-599/212, 1-14=-254/1737

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-5-14, Interior(1) 3-5-14 to 11-6-14, Exterior(2E) 11-6-14 to 14-9-0, Exterior(2R) 14-9-0 to 19-8-8, Interior(1) 19-8-8 to 33-2-4 zone; cantilever left and right exposed; porch 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) 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 363 lb uplift at joint 10, 126 lb uplift at joint 16 and 79 lb uplift at joint 9.



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 Date: July 20,2021

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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



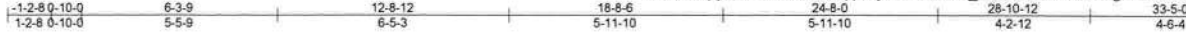
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss D14	Truss Type Roof Special	Qty 1	Ply 1	T24733594
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

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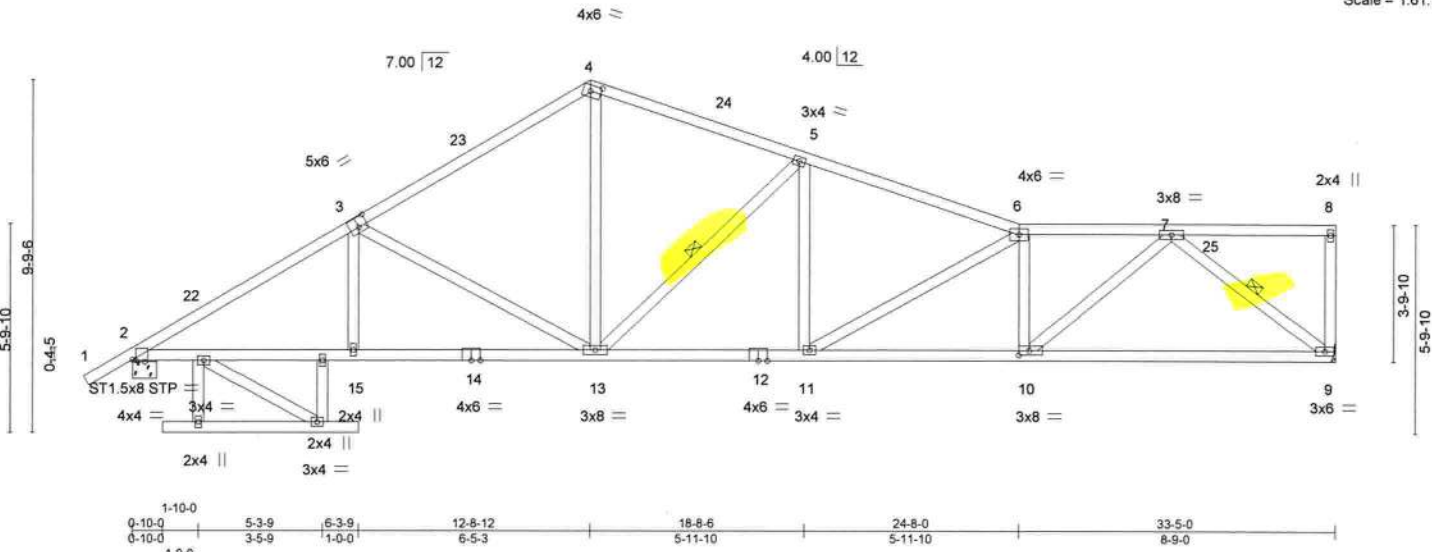


Plate Offsets (X,Y)-- [2:0-1-1,Edge], [3:0-3-0,0-3-4], [4:0-3-8,0-2-0], [10:0-3-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.93	Vert(LL)	-0.17	9-10	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.41	9-10	>956		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.14	9	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-SH						
								Weight: 205 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 5-13, 7-9

REACTIONS. (size) 9=Mechanical, 2=0-8-0
 Max Horz 2=132(LC 12)
 Max Uplift 9=202(LC 12), 2=-251(LC 12)
 Max Grav 9=1808(LC 1), 2=1960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3031/513, 3-4=-2347/466, 4-5=-2107/463, 5-6=-2954/556, 6-7=-3283/567
 BOT CHORD 2-15=-506/2467, 13-15=-507/2464, 11-13=-489/2734, 10-11=-577/3323, 9-10=-372/1968
 WEBS 3-13=-684/211, 4-13=-200/1230, 5-13=-1154/235, 5-11=-10/507, 6-11=-702/102,
 6-10=-971/240, 7-10=-258/1733, 7-9=-2481/478, 3-15=0/269

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-3-6 to 2-0-12, Interior(1) 2-0-12 to 12-8-12, Exterior(2R) 12-8-12 to 16-0-13, Interior(1) 16-0-13 to 33-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 9 and 251 lb uplift at joint 2.



Joaquin Velez PE No.68182
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 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

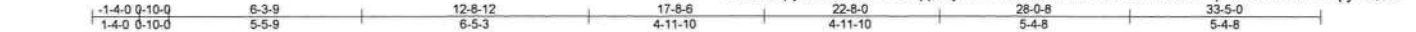


Job 1459442	Truss D15	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional)	T24733595
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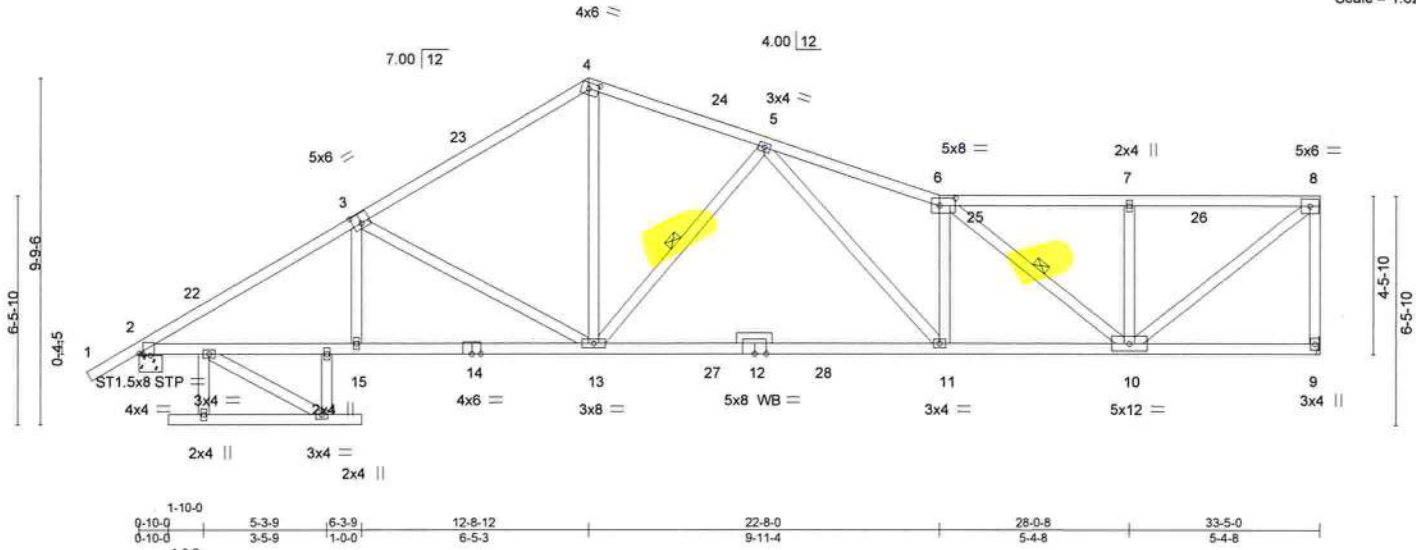


Plate Offsets (X,Y)-- [2:0-1.5,Edge], [3:0-3-0,0-3-4], [4:0-3-8,0-2-0], [6:0-5-4,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.95	Vert(LL)	-0.35	11-13	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.73	11-13	>541		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.12	9	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 210 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
	9-12,12-14: 2x4 SP No.1	WEBS	1 Row at midpt 5-13, 6-10
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 9=Mechanical, 2=0-8-0
 Max Horz 2=154(LC 12)
 Max Uplift 9=-204(LC 12), 2=-254(LC 12)
 Max Grav 9=1925(LC 19), 2=2101(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3210/510, 3-4=-2513/454, 4-5=-2251/456, 5-6=-3674/625, 6-7=-2092/356,
 7-8=-2092/356, 8-9=-1829/348
 BOT CHORD 2-15=-526/2702, 13-15=-527/2698, 11-13=-483/2724, 10-11=-555/3417
 WEBS 3-13=-724/217, 4-13=-201/1458, 5-13=-1038/237, 5-11=-118/1082, 6-11=-552/160,
 6-10=-1677/252, 7-10=-546/165, 8-10=-450/2643

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-11-3, Interior(1) 1-11-3 to 12-8-12, Exterior(2R) 12-8-12 to 16-0-13, Interior(1) 16-0-13 to 33-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 204 lb uplift at joint 9 and 254 lb uplift at joint 2.



Joaquin Velez PE No.68182
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 Date:

July 20,2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss D16	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Job Reference (optional)	T24733596
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:47 2021 Page 1
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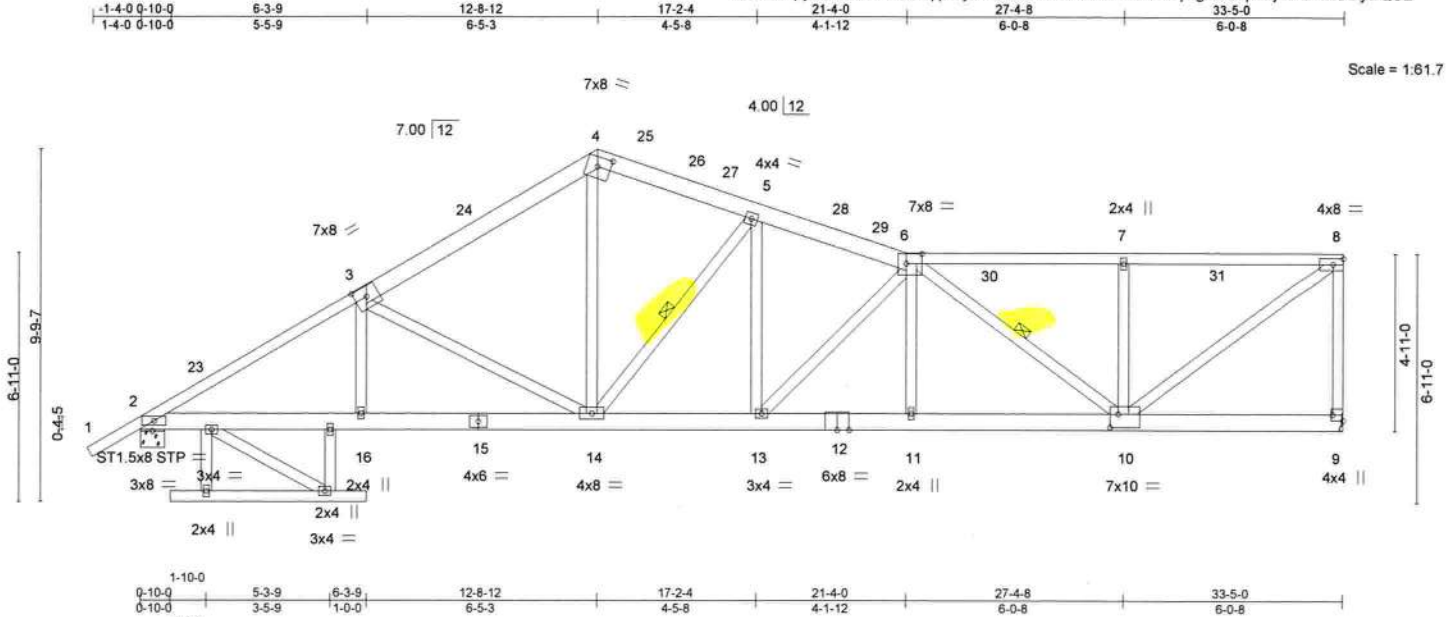


Plate Offsets (X,Y)-- [3:0-4-0,0-3-4], [4:0-4-5,0-3-4], [6:0-5-4,0-3-4], [9:Edge,0-3-8], [10:0-2-12,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.14	11-13	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.41	11-13	>972	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.12	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						Weight: 517 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 6-8: 2x4 SP M 31, 1-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 17-22,3-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9: 2x4 SP M 31, 3-14,8-10: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 6-10

REACTIONS. (size) 9=Mechanical, 2=0-8-0
 Max Horz 2=168(LC 12)
 Max Uplift 9=239(LC 9), 2=206(LC 12)
 Max Grav 9=4344(LC 1), 2=4424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-7760/968, 3-4=-7228/938, 4-5=-6818/942, 5-6=-9871/1282, 6-7=-5290/710, 7-8=-5288/711, 8-9=-4274/618
 BOT CHORD 2-16=-932/6529, 14-16=-937/6522, 13-14=-1163/9199, 11-13=-1281/9795, 10-11=-1280/9798
 WEBS 3-14=-451/183, 4-14=-557/4396, 5-14=-5086/654, 6-10=-5620/709, 7-10=-558/177, 8-10=-887/6624, 5-13=-89/682, 6-13=-890/174

- NOTES-**
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-11-4, Interior(1) 1-11-4 to 12-8-12, Exterior(2R) 12-8-12 to 16-0-13, Interior(1) 16-0-13 to 33-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 9 and 206 lb uplift at joint 10.



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 Date: July 20,2021

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	D16	ROOF SPECIAL	1	2	

T24733596

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:47 2021 Page 2

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NOTES-

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1476 lb down and 357 lb up at 15-1-8, and 1476 lb down and 357 lb up at 17-1-8, and 1476 lb down and 357 lb up at 19-1-8 on top 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=-90, 4-25=-90, 25-29=-186, 6-29=-90, 6-8=-90, 2-16=-20, 9-16=-20
Concentrated Loads (lb)
Vert: 5=-1476 26=-1476 28=-1476
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-80, 4-25=-80, 25-29=-176, 6-29=-80, 6-8=-80, 2-16=-20, 9-16=-20
Concentrated Loads (lb)
Vert: 5=-1342 26=-1342 28=-1342
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-25=-50, 25-29=-146, 6-29=-50, 6-8=-50, 2-16=-40, 9-16=-40
Concentrated Loads (lb)
Vert: 5=-1208 26=-1208 28=-1208
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=55, 2-23=31, 4-23=26, 4-25=35, 25-27=-61, 27-29=-70, 6-29=26, 6-8=26, 2-16=-8, 9-16=-8
Horz: 1-2=-63, 2-23=-39, 4-23=-35, 4-27=43, 6-27=35
Drag: 6-7=0
Concentrated Loads (lb)
Vert: 5=357 26=357 28=357
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-24=26, 4-24=35, 4-25=26, 25-29=-70, 6-29=26, 6-31=26, 8-31=31, 2-16=-8, 9-16=-8
Horz: 1-2=-29, 2-24=-35, 4-24=-43, 4-6=35
Drag: 6-7=0
Concentrated Loads (lb)
Vert: 5=357 26=357 28=357
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-4=-64, 4-25=-64, 25-29=-160, 6-29=-64, 6-8=-64, 2-16=-20, 9-16=-20
Horz: 1-2=-9, 2-4=14, 4-6=-14
Drag: 6-7=0
Concentrated Loads (lb)
Vert: 5=-1128 26=-1128 28=-1128
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-4=-64, 4-25=-64, 25-29=-160, 6-29=-64, 6-8=-64, 2-16=-20, 9-16=-20
Horz: 1-2=9, 2-4=14, 4-6=-14
Drag: 6-7=0
Concentrated Loads (lb)
Vert: 5=-1128 26=-1128 28=-1128
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-4=3, 4-25=11, 25-29=-85, 6-29=11, 6-30=17, 8-30=12, 2-16=-8, 9-16=-8
Horz: 1-2=-26, 2-4=-11, 4-6=20
Drag: 6-30=0, 7-30=0
Concentrated Loads (lb)
Vert: 5=113 26=113 28=113
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=12, 4-25=13, 25-29=-83, 6-29=13, 6-8=24, 2-16=-8, 9-16=-8
Horz: 1-2=-15, 2-4=-20, 4-6=21
Drag: 6-7=0
Concentrated Loads (lb)
Vert: 5=213 26=213 28=213
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-4=-60, 4-25=-41, 25-29=-137, 6-29=-41, 6-8=-51, 2-16=-20, 9-16=-20
Horz: 1-2=5, 2-4=10, 4-6=9
Concentrated Loads (lb)
Vert: 5=-1078 26=-1078 28=-1078
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-40, 4-25=-52, 25-29=-148, 6-29=-52, 6-8=-51, 2-16=-20, 9-16=-20
Horz: 1-2=-15, 2-4=-10, 4-6=-2
Concentrated Loads (lb)
Vert: 5=-1010 26=-1010 28=-1010
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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

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6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss D16	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Job Reference (optional)	T24733596
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:47 2021 Page 3
ID:XJKHpyKrMokGaZufSxqtPWyxY11-oTzCO?7X1UoltMhYUnqzIgvnQVpZ2jC2OamOulywQSE

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=35, 2-4=20, 4-25=20, 25-29=-76, 6-29=20, 6-8=20, 2-16=-8, 9-16=-8
Horz: 1-2=-44, 2-4=-29, 4-6=29
Drag: 6-7=-0
- Concentrated Loads (lb)
Vert: 5=162 26=162 28=162
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=10, 4-25=10, 25-29=-86, 6-29=10, 6-8=10, 2-16=-8, 9-16=-8
Horz: 1-2=-33, 2-4=-18, 4-6=18
Drag: 6-7=-0
- Concentrated Loads (lb)
Vert: 5=20 26=20 28=20
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=-51, 4-25=-51, 25-29=-147, 6-29=-51, 6-8=-51, 2-16=-20, 9-16=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1
- Concentrated Loads (lb)
Vert: 5=-1010 26=-1010 28=-1010
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=-51, 4-25=-51, 25-29=-147, 6-29=-51, 6-8=-51, 2-16=-20, 9-16=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1
- Concentrated Loads (lb)
Vert: 5=-1010 26=-1010 28=-1010
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-50, 4-25=-50, 25-29=-146, 6-29=-50, 6-8=-50, 2-16=-20, 9-16=-20
- Concentrated Loads (lb)
Vert: 5=-939 26=-939 28=-939
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-84, 2-4=-88, 4-25=-73, 25-29=-169, 6-29=-73, 6-8=-81, 2-16=-20, 9-16=-20
Horz: 1-2=4, 2-4=8, 4-6=7
- Concentrated Loads (lb)
Vert: 5=-1446 26=-1446 28=-1446
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-69, 2-4=-73, 4-25=-82, 25-29=-178, 6-29=-82, 6-8=-81, 2-16=-20, 9-16=-20
Horz: 1-2=-11, 2-4=-7, 4-6=-2
- Concentrated Loads (lb)
Vert: 5=-1395 26=-1395 28=-1395
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-81, 4-25=-81, 25-29=-177, 6-29=-81, 6-8=-81, 2-16=-20, 9-16=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1
- Concentrated Loads (lb)
Vert: 5=-1395 26=-1395 28=-1395
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-81, 4-25=-81, 25-29=-177, 6-29=-81, 6-8=-81, 2-16=-20, 9-16=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1
- Concentrated Loads (lb)
Vert: 5=-1395 26=-1395 28=-1395
- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-90, 4-25=-50, 25-29=-146, 6-29=-50, 6-8=-50, 2-16=-20, 9-16=-20
- Concentrated Loads (lb)
Vert: 5=-1476 26=-1476 28=-1476
- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-25=-90, 25-29=-186, 6-29=-90, 6-8=-90, 2-16=-20, 9-16=-20
- Concentrated Loads (lb)
Vert: 5=-1476 26=-1476 28=-1476
- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-80, 4-25=-50, 25-29=-146, 6-29=-50, 6-8=-50, 2-16=-20, 9-16=-20
- Concentrated Loads (lb)
Vert: 5=-1342 26=-1342 28=-1342
- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-25=-80, 25-29=-176, 6-29=-80, 6-8=-80, 2-16=-20, 9-16=-20
- Concentrated Loads (lb)
Vert: 5=-1342 26=-1342 28=-1342

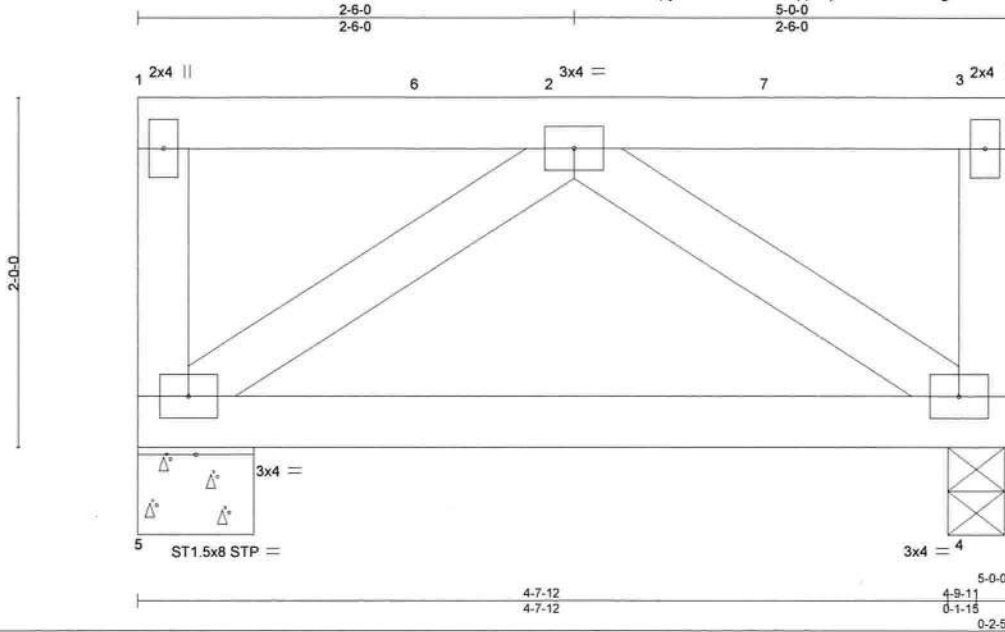
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev 5-19-2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss DG1	Truss Type Flat Girder	Qty 1	Ply 1	T24733597
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:56 2021 Page 1
 ID:XJKHpyKrMOKGaZufSxqtpWyxY11-1C0cH4egIFwTSltGVAU49anKj8?qfxZMTUMJkywQS5



Scale = 1:12.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.03	4-5	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.06	4-5	>958		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 27 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-8-0, 4=0-3-14
 Max Uplift 5=-110(LC 4), 4=-100(LC 4)
 Max Grav 5=897(LC 1), 4=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-285/32
 BOT CHORD 4-5=-121/879
 WEBS 2-5=-1087/149, 2-4=-1087/149

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 5 and 100 lb uplift at joint 4.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 744 lb down and 168 lb up at 1-8-12, and 606 lb down and 114 lb up at 3-8-12 on top 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=-90, 4-5=-20
 Concentrated Loads (lb)
 Vert: 6=-744 7=-606



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

July 20,2021

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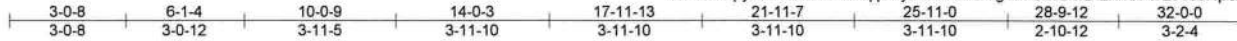
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss FG1	Truss Type ROOF TRUSS	Qty 1	Ply 5	Job Reference (optional) T24733598
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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Scale = 1:57.6

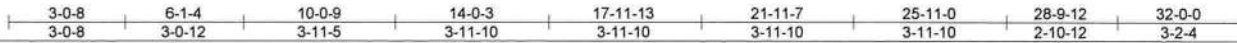
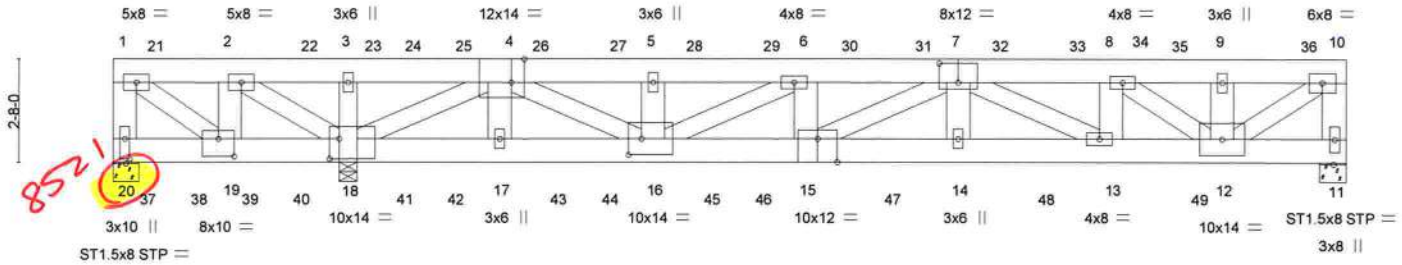


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [7:0-6-0,0-6-0], [15:0-6-0,Edge], [16:0-4-2,0-5-0], [18:0-3-0,0-6-4], [19:0-5-0,0-5-8], [20:0-6-4,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.59	Vert(LL)	-0.16 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.48	Vert(CT)	-0.36 14-15	>858	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.06 11	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH	Wind(LL)	0.06 14-15	>999	240		
								Weight: 1547 lb	FT = 20%

LUMBER-
 TOP CHORD 2x8 SP 2400F 2.0E
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x8 SP 2400F 2.0E *Except*
 1-19,3-18,4-18,6-16,7-15,7-13,8-12,10-12,2-18: 2x6 SP No.2
 4-16: 2x6 SP M 26

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, Except: 6-0-0 oc bracing: 19-20,18-19.

REACTIONS. (size) 20=0-8-0, 11=0-8-0, 18=0-5-8
 Max Uplift 20=-8521(LC 2), 11=-171(LC 5), 18=-244(LC 8)
 Max Grav 11=13775(LC 2), 18=37184(LC 2)

THIS TRUSS IS NOT SYMMETRIC. PROPER ORIENTATION IS ESSENTIAL.


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-20=0/9042, 1-2=-60/13298, 2-3=-149/29372, 3-4=-149/29372, 4-5=-24868/88, 5-6=-24868/88, 6-7=-35775/115, 7-8=-29314/259, 8-9=-16424/166, 9-10=-16424/166, 10-11=-12988/172
 BOT CHORD 19-20=-657/5, 18-19=-13298/60, 17-18=-37/2197, 16-17=-44/1980, 15-16=-115/35775, 14-15=-245/37357, 13-14=-245/37357, 12-13=-259/29314, 11-12=-15/1222
 WEBS 1-19=-15824/69, 2-19=-6/10440, 3-18=-6714/114, 4-18=-34970/191, 4-17=-962/1494, 4-16=-66/26277, 5-16=-4057/50, 6-16=-12294/45, 6-15=-40/2930, 7-15=-2266/146, 7-14=-35/1636, 7-13=-9065/0, 8-13=0/5492, 8-12=-15826/115, 9-12=-2164/77, 10-12=-185/18688, 2-18=-19379/115

- NOTES-**
- 1) 5-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Attach TC&BC w/1/2" diam. bolts(ASTM A-307) in the center of the member w/washers at 4-0-0 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=4.2psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right 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) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 18 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 8521 lb uplift at joint 20, 171 lb uplift at joint 11 and 244 lb uplift at joint 18.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	FG1	ROOF TRUSS	1	5	

T24733598

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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NOTES-

- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 242 lb down and 194 lb up at 0-3-10, 252 lb down and 114 lb up at 1-0-12, 1441 lb down and 272 lb up at 3-1-8, 1470 lb down and 239 lb up at 5-0-12, 1470 lb down and 239 lb up at 7-0-12, 1470 lb down and 239 lb up at 9-0-12, 1572 lb down and 239 lb up at 11-0-12, 1624 lb down and 265 lb up at 13-0-12, 1376 lb down and 181 lb up at 15-0-12, 1376 lb down and 181 lb up at 17-0-12, 1376 lb down and 181 lb up at 19-0-12, 1595 lb down and 241 lb up at 21-0-0, 1595 lb down and 241 lb up at 23-0-0, 1595 lb down and 241 lb up at 25-0-0, 1595 lb down and 241 lb up at 27-0-0, and 1595 lb down and 241 lb up at 29-0-0, and 1604 lb down and 241 lb up at 31-0-0 on top chord, and 901 lb down at 0-10-4, 901 lb down at 2-2-4, 901 lb down at 3-6-4, 948 lb down at 4-10-4, 948 lb down at 6-1-4, 948 lb down at 7-6-4, 948 lb down at 8-10-4, 948 lb down at 10-2-4, 948 lb down at 11-6-4, 948 lb down at 12-10-4, 948 lb down at 14-2-4, and 948 lb down at 15-6-4, and 948 lb down at 16-10-4 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=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-10=-196, 11-20=-20
Concentrated Loads (lb)
Vert: 1=-242 2=-1441 17=-249(B) 16=-249(B) 15=-288 14=-216 13=-166 9=-1496(F) 18=-249(B) 21=-252 22=-1470 24=-1470 25=-1470 26=-1470 27=-1535 28=-1376 29=-1376 30=-1376 31=-1496(F) 32=-1496(F) 33=-1496(F) 35=-1496(F) 36=-1509(F) 37=-236(B) 38=-236(B) 39=-236(B) 40=-249(B) 41=-249(B) 42=-249(B) 43=-249(B) 44=-249(B) 45=-249(B) 46=-249(B) 47=-247 48=-197 49=-136
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-10=-176, 11-20=-20
Concentrated Loads (lb)
Vert: 1=-208 2=-1315 17=-773(B) 16=-773(B) 15=-904 14=-690 13=-542 9=-1595(F) 18=-773(B) 21=-228 22=-1344 24=-1344 25=-1344 26=-1572 27=-1624 28=-1262 29=-1262 30=-1262 31=-1595(F) 32=-1595(F) 33=-1595(F) 35=-1595(F) 36=-1604(F) 37=-735(B) 38=-735(B) 39=-735(B) 40=-773(B) 41=-773(B) 42=-773(B) 43=-773(B) 44=-773(B) 45=-773(B) 46=-773(B) 47=-782 48=-632 49=-456
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-10=-116, 11-20=-40
Concentrated Loads (lb)
Vert: 1=-143 2=-1248 9=-1244(F) 21=-163 22=-1222 24=-1222 25=-1222 26=-1222 27=-1258 28=-1166 29=-1166 30=-1166 31=-1244(F) 32=-1244(F) 33=-1244(F) 35=-1244(F) 36=-1244(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-27=-71, 27-34=-79, 10-34=-84, 11-20=-8
Concentrated Loads (lb)
Vert: 1=160 2=226 9=208(F) 21=100 22=193 24=193 25=193 26=193 27=224 28=144 29=144 30=144 31=204(F) 32=204(F) 33=206(F) 35=208(F) 36=211(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-84, 23-30=-79, 10-30=-71, 11-20=-8
Concentrated Loads (lb)
Vert: 1=169 2=239 9=196(F) 21=104 22=206 24=203 25=201 26=201 27=227 28=144 29=144 30=140 31=196(F) 32=196(F) 33=196(F) 35=196(F) 36=201(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-117, 11-20=-20
Concentrated Loads (lb)
Vert: 1=194 2=272 9=241(F) 21=114 22=239 24=239 25=239 26=239 27=265 28=181 29=181 30=181 31=241(F) 32=241(F) 33=241(F) 35=241(F) 36=241(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-117, 11-20=-20
Concentrated Loads (lb)
Vert: 1=194 2=272 9=241(F) 21=114 22=239 24=239 25=239 26=239 27=265 28=181 29=181 30=181 31=241(F) 32=241(F) 33=241(F) 35=241(F) 36=241(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-76, 11-20=-8
Concentrated Loads (lb)
Vert: 1=163 2=230 9=200(F) 21=101 22=197 24=197 25=197 26=197 27=223 28=140 29=140 30=140 31=200(F) 32=200(F) 33=200(F) 35=200(F) 36=204(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-86, 11-20=-8
Concentrated Loads (lb)
Vert: 1=171 2=241 9=211(F) 21=105 22=208 24=208 25=208 26=208 27=234 28=151 29=151 30=151 31=211(F) 32=211(F) 33=211(F) 35=211(F) 36=213(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-117, 11-20=-20
Concentrated Loads (lb)
Vert: 1=194 2=272 9=241(F) 21=114 22=239 24=239 25=239 26=239 27=265 28=181 29=181 30=181 31=241(F) 32=241(F) 33=241(F) 35=241(F) 36=241(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=-117, 11-20=-20

Continued on page 3

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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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1459442	FG1	ROOF TRUSS	1	5	T24733598


Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:59 2021 Page 3
 ID:XJKHpyKrMOKGaZufSxqtpWyxY11-Rnikv6gY2AJ2JDCrBI2nnCP1vL06s9Hp9Sg0J3ywQS2

LOAD CASE(S) Standard

- Concentrated Loads (lb)
 Vert: 1=194 2=272 9=241(F) 21=114 22=239 24=239 25=239 26=239 27=265 28=181 29=181 30=181 31=241(F) 32=241(F) 33=241(F) 35=241(F) 36=241(F)
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (plf)
 Vert: 1-10=-116, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=-106 2=-940 17=-948(B) 16=-948(B) 15=-1110 14=-848 13=-668 9=-1285(F) 18=-948(B) 21=-154 22=-966 24=-966 25=-966 26=-1270 27=-1299 28=-920
 29=-920 30=-920 31=-1285(F) 32=-1285(F) 33=-1285(F) 35=-1285(F) 36=-1285(F) 37=-901(B) 38=-901(B) 39=-901(B) 40=-948(B) 41=-948(B) 42=-948(B)
 43=-948(B) 44=-948(B) 45=-948(B) 46=-948(B) 47=-960 48=-777 49=-563
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-177, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=154 2=153 9=127(F) 21=80 22=126 24=126 25=126 26=126 27=144 28=84 29=84 30=84 31=127(F) 32=127(F) 33=127(F) 35=127(F) 36=127(F)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-177, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=154 2=153 9=127(F) 21=80 22=126 24=126 25=126 26=126 27=144 28=84 29=84 30=84 31=127(F) 32=127(F) 33=127(F) 35=127(F) 36=127(F)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-177, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=154 2=153 9=127(F) 21=80 22=126 24=126 25=126 26=126 27=144 28=84 29=84 30=84 31=127(F) 32=127(F) 33=127(F) 35=127(F) 36=127(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-177, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=154 2=153 9=127(F) 21=80 22=126 24=126 25=126 26=126 27=144 28=84 29=84 30=84 31=127(F) 32=127(F) 33=127(F) 35=127(F) 36=127(F)
- 17) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-27=-71, 27-34=-79, 10-34=-84, 11-20=-8
 Concentrated Loads (lb)
 Vert: 1=-127 2=-779 9=-1069(F) 21=-186 22=-1051 24=-1051 25=-1051 26=-1051 27=-1087 28=-1008 29=-1008 30=-1008 31=-1069(F) 32=-1069(F) 33=-1069(F)
 35=-1069(F) 36=-1068(F)
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-23=-84, 23-30=-79, 10-30=-71, 11-20=-8
 Concentrated Loads (lb)
 Vert: 1=-127 2=-766 9=-1069(F) 21=-182 22=-1051 24=-1051 25=-1051 26=-1051 27=-1087 28=-1008 29=-1008 30=-1008 31=-1069(F) 32=-1069(F) 33=-1069(F)
 35=-1069(F) 36=-1068(F)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-117, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=-107 2=-733 9=-1039(F) 21=-172 22=-1021 24=-1026 25=-1028 26=-1026 27=-1061 28=-978 29=-978 30=-978 31=-1039(F) 32=-1039(F) 33=-1039(F)
 35=-1039(F) 36=-1039(F)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-117, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=-107 2=-733 9=-1039(F) 21=-172 22=-1021 24=-1026 25=-1028 26=-1026 27=-1061 28=-978 29=-978 30=-978
 31=-1039(F) 32=-1039(F) 33=-1039(F) 35=-1039(F) 36=-1039(F)
- 21) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-76, 11-20=-8
 Concentrated Loads (lb)
 Vert: 1=-127 2=-774 9=-1069(F) 21=-185 22=-1051 24=-1051 25=-1051 26=-1051 27=-1087 28=-1008 29=-1008 30=-1008
 31=-1069(F) 32=-1069(F) 33=-1069(F) 35=-1069(F) 36=-1068(F)
- 22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-86, 11-20=-8
 Concentrated Loads (lb)
 Vert: 1=-127 2=-764 9=-1069(F) 21=-182 22=-1051 24=-1051 25=-1051 26=-1051 27=-1087 28=-1008 29=-1008 30=-1008
 31=-1069(F) 32=-1069(F) 33=-1069(F) 35=-1069(F) 36=-1067(F)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-117, 11-20=-20
 Concentrated Loads (lb)
 Vert: 1=-107 2=-733 9=-1039(F) 21=-172 22=-1021 24=-1026 25=-1028 26=-1026 27=-1061 28=-978 29=-978 30=-978
 31=-1039(F) 32=-1039(F) 33=-1039(F) 35=-1039(F) 36=-1039(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-10=-117, 11-20=-20

Continued on page 4

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE 1311 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 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 <p>6904 Parke East Blvd. Tampa, FL 36610</p>
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Job 1459442	Truss FG1	Truss Type ROOF TRUSS	Qty 1	Ply 5	Job Reference (optional) T24733598
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:12:59 2021 Page 4
ID:XJKHpyKrMOkGaZufSxqtpWyY11-Rnikv6gY2AJ2JDcrBI2nnCP1vL06s9Hp9Sg0J3ywQS2

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 1=-107 2=-733 9=-1039(F) 21=-172 22=-1021 24=-1026 25=-1028 26=-1026 27=-1061 28=-978 29=-978 30=-978 31=-1039(F) 32=-1039(F) 33=-1039(F)
35=-1039(F) 36=-1039(F)

25) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-10=-177, 11-20=-20

Concentrated Loads (lb)

Vert: 1=-108 2=-1034 9=-1469(F) 21=-218 22=-1276 24=-1279 25=-1281 26=-1451 27=-1498 28=-1205 29=-1205 30=-1205 31=-1469(F) 32=-1469(F)
33=-1469(F) 35=-1469(F) 36=-1478(F)

26) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-10=-177, 11-20=-20

Concentrated Loads (lb)

Vert: 1=-108 2=-1034 9=-1469(F) 21=-218 22=-1276 24=-1279 25=-1281 26=-1451 27=-1498 28=-1205 29=-1205 30=-1205 31=-1469(F) 32=-1469(F)
33=-1469(F) 35=-1469(F) 36=-1478(F)

27) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-10=-177, 11-20=-20

Concentrated Loads (lb)

Vert: 1=-108 2=-1034 9=-1469(F) 21=-218 22=-1276 24=-1279 25=-1281 26=-1451 27=-1498 28=-1205 29=-1205 30=-1205 31=-1469(F) 32=-1469(F)
33=-1469(F) 35=-1469(F) 36=-1478(F)

28) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-10=-177, 11-20=-20

Concentrated Loads (lb)

Vert: 1=-108 2=-1034 9=-1469(F) 21=-218 22=-1276 24=-1279 25=-1281 26=-1451 27=-1498 28=-1205 29=-1205 30=-1205 31=-1469(F) 32=-1469(F)
33=-1469(F) 35=-1469(F) 36=-1478(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MJT-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

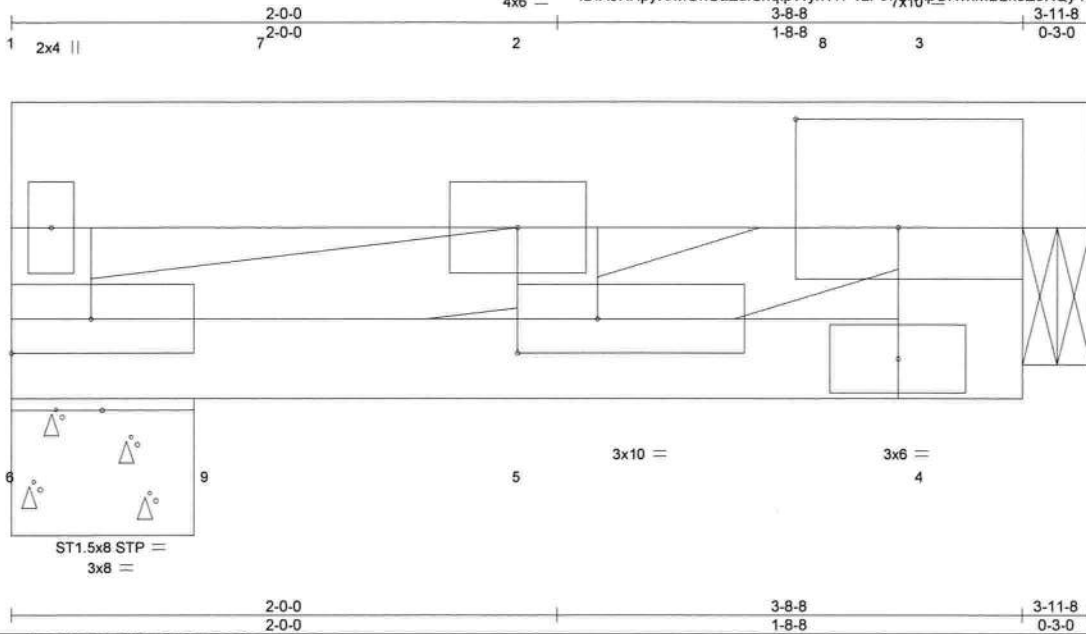
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FG2	Truss Type FLOOR	Qty 1	Ply 2	Job Reference (optional)	T24733599
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:00 2021 Page 1

ID: XJKHpyKrfMokGaZufSxqtpWyxYI1-vzF675ShApLRvxB2k0Z0KQy4GII5bcmY06QasVywQS1



Scale = 1:8.1

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.02	5-6	>999	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.02	5-6	>999	240	
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.00	3	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 41 lb FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 3-4: 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 3=0-3-0
 Max Grav 6=2843(LC 1), 3=4494(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-1058/0, 2-3=-3089/0, 3-4=0/961
 BOT CHORD 5-6=0/3089
 WEBS 2-5=-298/0, 2-6=-3307/0, 3-5=0/3425

- NOTES-**
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-3=-196, 4-6=-10
 Concentrated Loads (lb)
 Vert: 1=-108 3=-914 4=-907 5=-903 2=-914 7=-1069 8=-931 9=-903
- Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-3=-196, 4-6=-10
 Concentrated Loads (lb)
 Vert: 1=-108 3=-914 4=-907 5=-903 2=-914 7=-1069 8=-931 9=-903



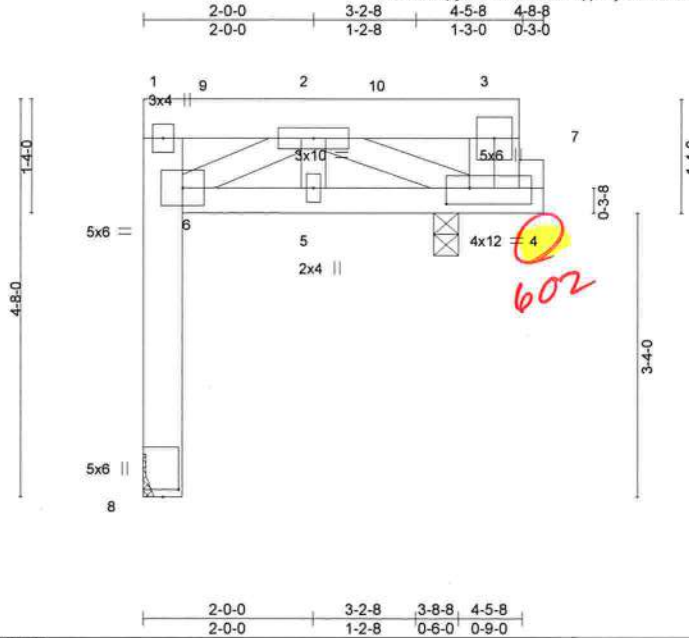
Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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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Job	Truss	Truss Type	Qty	Ply	
1459442	FG3	ROOF TRUSS	1	2	T24733600

Job Reference (optional)
 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jul 20 09:47:00 2021 Page 1
 ID: XJKHpyKrMokGaZufSxtpWyxYI1-8XN1U_h6kCW3KwxDHgKICsJd_4NbhfxkOTO?ywDef



Scale = 1:26.1



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

Plate Offsets (X,Y)--	[4:0-3-4,0-2-4], [8:0-1-0,0-2-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.01	5	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.00	BC 0.78	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.02	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						
								Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-8: 2x6 SP No.2, 4-7,3-4: 2x4 SP No.2, 3-4: 2x4 SP M 31	

REACTIONS. (lb/size) 4=10062/0-3-8 (req. 0-7-12), 8=2749/Mechanical
 Max Uplift 4=-602(LC 4), 8=-289(LC 4)
 Max Grav 4=13186(LC 2), 8=2939(LC 2)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-8=-2939/289, 1-6=-773/169, 1-9=-400/19, 2-9=-400/19, 2-10=-6037/407, 3-10=-6037/407
 BOT CHORD 5-6=-236/4176, 4-5=-236/4176
 WEBS 2-6=-4294/246, 2-5=-74/695, 2-4=-973/1974, 4-7=-11246/759, 3-7=-11395/769

NOTES-
 1) 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.148"x3") nails as follows: 2x6 - 3 rows staggered at 0-2-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-7-0 oc.
 Web connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc, Except member 7-4 2x4 - 1 row at 0-3-0 oc, member 4-3 2x4 - 1 row at 0-3-0 oc, member 4-3 2x4 - 1 row at 0-3-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 4 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 602 lb uplift at joint 4 and 289 lb uplift at joint 8.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 235 lb down and 208 lb up at 0-2-12, 248 lb down and 121 lb up at 0-9-12, 844 lb down and 232 lb up at 2-9-12, and 5995 lb down and 716 lb up at 4-1-8, and 4477 lb down at 4-5-8 on top chord, and 494 lb down at 1-10-12, and 476 lb down and 119 lb up at 2-0-4, and 4484 lb down at 4-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

July 20,2021

Continued on page 2
LOAD CASE(S) Standard 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1459442	FG3	ROOF TRUSS	1	2	T24733600

Job Reference (optional)
 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jul 20 09:47:00 2021 Page 2
 ID:XJKHpyKrMokGaZufSxqpWyxYI1-8XNh1U_h6kCW3KWxDHgKICsJd_4NbhfxkOTO?ywDef

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-3=-226, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=-235 3=-7951(F=-1956) 5=-601(F=-476, B=-125) 4=-1962(F) 9=-248 10=-844
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-3=-206, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=-199 3=-9356(F=-3847) 5=-833(F=-431, B=-402) 4=-3853(F) 9=-223 10=-769
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-146, 4-6=-40
 Concentrated Loads (lb)
 Vert: 1=-129 3=-4845 5=-369(F) 9=-156 10=-729
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-70, 4-6=-8
 Concentrated Loads (lb)
 Vert: 1=157 3=684 5=107(F) 9=99 10=156
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-70, 4-6=-8
 Concentrated Loads (lb)
 Vert: 1=157 3=684 5=107(F) 9=99 10=156
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-147, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=208 3=716 5=119(F) 9=121 10=232
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-147, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=208 3=716 5=119(F) 9=121 10=232
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-76, 4-6=-8
 Concentrated Loads (lb)
 Vert: 1=161 3=686 5=107(F) 9=100 10=161
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-86, 4-6=-8
 Concentrated Loads (lb)
 Vert: 1=169 3=690 5=107(F) 9=104 10=172
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-147, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=208 3=716 5=119(F) 9=121 10=232
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-147, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=208 3=716 5=119(F) 9=121 10=232
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (plf)
 Vert: 1-3=-146, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=-92 3=-8363(F=-4477) 5=-791(F=-297, B=-494) 4=-4484(F) 9=-148 10=-545
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-207, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=167 3=316 5=75(F) 9=87 10=154
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-207, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=167 3=316 5=75(F) 9=87 10=154
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-207, 4-6=-20
 Concentrated Loads (lb)
 Vert: 1=167 3=316 5=75(F) 9=87 10=154
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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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6904 Parke East Blvd.
 Tampa, FL 38610

Job	Truss	Truss Type	Qty	Ply	
1459442	FG3	ROOF TRUSS	1	2	Job Reference (optional)

T24733600

8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jul 20 09:47:00 2021 Page 3
ID: XJKHpyKrMOKGaZufSxqtpWyxY11-8XNh1U_h6kCW3KWxDHGkICsJd_4NbhfxkOTO?ywDef**LOAD CASE(S) Standard**

- Uniform Loads (plf)
Vert: 1-3=-207, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=167 3=316 5=75(F) 9=87 10=154
- 17) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-70, 4-6=-8
Concentrated Loads (lb)
Vert: 1=-129 3=-270 5=-373(F) 9=-187 10=-537
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-70, 4-6=-8
Concentrated Loads (lb)
Vert: 1=-129 3=-270 5=-373(F) 9=-187 10=-537
- 19) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-147, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-93 3=-238 5=-361(F) 9=-165 10=-465
- 20) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-147, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-93 3=-238 5=-361(F) 9=-165 10=-465
- 21) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-76, 4-6=-8
Concentrated Loads (lb)
Vert: 1=-129 3=-268 5=-373(F) 9=-186 10=-536
- 22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-86, 4-6=-8
Concentrated Loads (lb)
Vert: 1=-129 3=-263 5=-373(F) 9=-182 10=-526
- 23) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-147, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-93 3=-238 5=-361(F) 9=-165 10=-465
- 24) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-147, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-93 3=-238 5=-361(F) 9=-165 10=-465
- 25) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-207, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-100 3=-639 5=-446(F) 9=-213 10=-627
- 26) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-207, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-100 3=-639 5=-446(F) 9=-213 10=-627
- 27) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-207, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-100 3=-639 5=-446(F) 9=-213 10=-627
- 28) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-207, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-100 3=-639 5=-446(F) 9=-213 10=-627

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FG4	Truss Type FLOOR	Qty 1	Ply 3	Job Reference (optional)	T24733601
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:02 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqpWyxYI1-sMNX8iRL5hdAgLQsRbUPr1QCYxB3W_FrQvgwOywQS7



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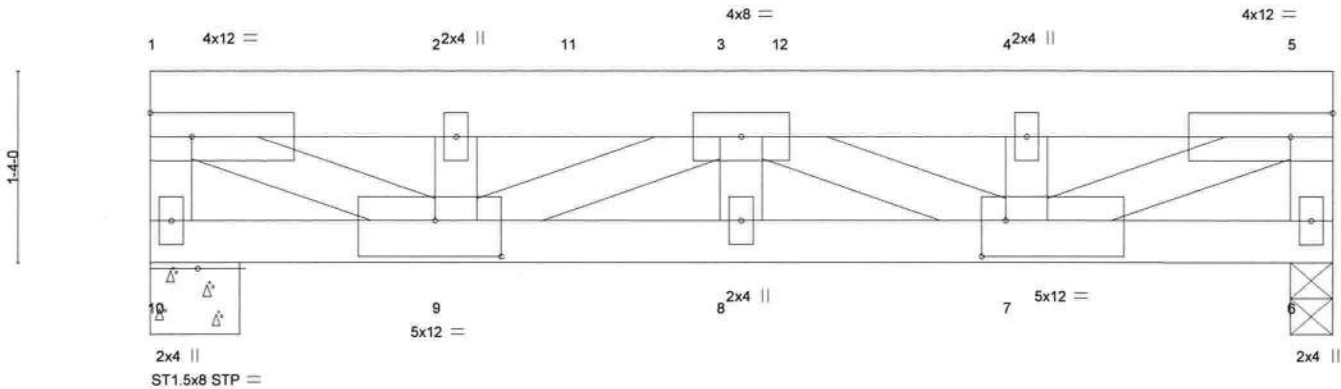


Plate Offsets (X,Y)-- [7:0-2-0,0-3-0], [9:0-5-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.90	Vert(LL) -0.01 8 >999 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.77	Vert(CT) -0.13 8 >736 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2020/TPI2014			Weight: 140 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP M 26
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
1-9,5-7: 2x4 SP No.1

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.

REACTIONS. (size) 10=0-7-8, 6=0-3-8
Max Grav 10=5472(LC 1), 6=5490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-5431/0, 1-2=-10638/0, 2-3=-10638/0, 3-4=-10907/0, 4-5=-10907/0, 5-6=-5442/0
BOT CHORD 8-9=0/16919, 7-8=0/16919
WEBS 1-9=0/11808, 2-9=-1836/0, 3-9=-6972/0, 3-8=-519/0, 3-7=-6674/0, 4-7=-2109/0,
5-7=0/12106

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-196, 6-10=-10
Concentrated Loads (lb)
Vert: 2=-508 3=-3840 11=-528 12=-4447
- Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-196, 6-10=-10
Concentrated Loads (lb)
Vert: 2=-508 3=-3840 11=-528 12=-4447



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

July 20,2021

WARNINGS - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE 1011-7473 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

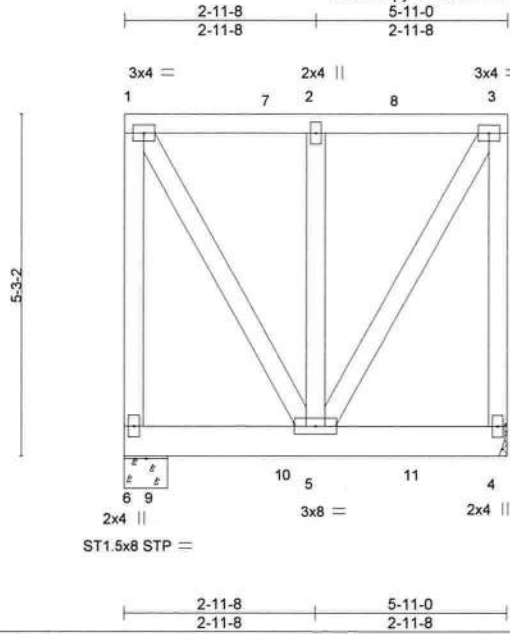
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss FG5	Truss Type FLAT GIRDER	Qty 1	Ply 2	Job Reference (optional) T24733602
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:03 2021 Page 1

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Scale = 1:34.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.01	5	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.02	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 116 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-8-0, 4=Mechanical
 Max Uplift 6=-434(LC 4), 4=-190(LC 4)
 Max Grav 6=2805(LC 1), 4=1952(LC 1)

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

TOP CHORD 1-6=-2040/201, 1-2=-721/92, 2-3=-721/92, 3-4=-1574/160
 WEBS 1-5=-184/1445, 2-5=-1348/33, 3-5=-184/1445

NOTES-

- 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.
- 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 434 lb uplift at joint 6 and 190 lb uplift at joint 4.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 580 lb down and 111 lb up at 0-1-12, and 541 lb down and 150 lb up at 2-3-4, and 526 lb down and 169 lb up at 4-3-4 on top chord, and 784 lb down and 266 lb up at 0-5-12, and 639 lb down and 234 lb up at 2-5-12, and 765 lb down and 128 lb up at 4-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2



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

July 20,2021

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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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	FG5	FLAT GIRDER	1	2	

T24733602

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:03 2021 Page 2

ID:XJKHpyKrM0kGaZufSxqtpWyxY11-KYxFITj36PpUoqwdQ86jx2accySio5xO44eESqywQS_

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-3=-144, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=-580 7=-541 8=-526 9=-784 10=-639(F) 11=-765(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-3=-134, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=-525 7=-490 8=-478 9=-713 10=-581(F) 11=-695(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-3=-104, 4-6=-40
- Concentrated Loads (lb)
Vert: 1=-442 7=-420 8=-418 9=-635 10=-514(F) 11=-612(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-28, 4-6=-8
- Concentrated Loads (lb)
Vert: 1=66 7=73 8=93 9=258 10=222(F) 11=116(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-28, 4-6=-8
- Concentrated Loads (lb)
Vert: 1=66 7=73 8=93 9=258 10=222(F) 11=116(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-105, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=111 7=150 8=169 9=266 10=234(F) 11=128(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-105, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=111 7=150 8=169 9=266 10=234(F) 11=128(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-34, 4-6=-8
- Concentrated Loads (lb)
Vert: 1=70 7=79 8=98 9=258 10=222(F) 11=116(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-44, 4-6=-8
- Concentrated Loads (lb)
Vert: 1=76 7=89 8=109 9=258 10=222(F) 11=116(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-105, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=111 7=150 8=169 9=266 10=234(F) 11=128(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-105, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=111 7=150 8=169 9=266 10=234(F) 11=128(F)
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 1-3=-104, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=-359 7=-337 8=-332 9=-500 10=-407(F) 11=-486(F)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-135, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=69 7=103 8=118 9=172 10=154(F) 11=70(F)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-135, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=69 7=103 8=118 9=172 10=154(F) 11=70(F)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=-135, 4-6=-20
- Concentrated Loads (lb)
Vert: 1=69 7=103 8=118 9=172 10=154(F) 11=70(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FG5	Truss Type FLAT GIRDER	Qty 1	Ply 2	T24733602 Job Reference (optional)
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:03 2021 Page 3
ID: XJKHpyKrMOkGaZufSxqtpWyxY11-KYxFITJ36PpUoqwdQ86jx2acoySio5xO44eESqyws_

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-135, 4-6=-20

Concentrated Loads (lb)

Vert: 1=69 7=103 8=118 9=172 10=154(F) 11=70(F)



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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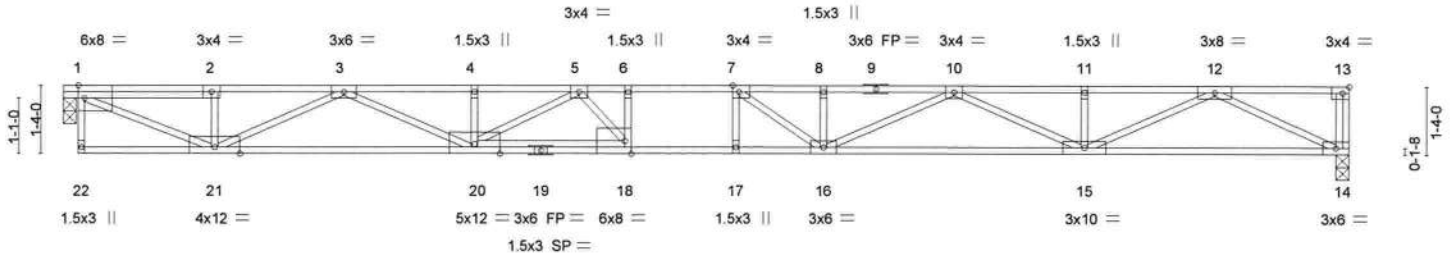
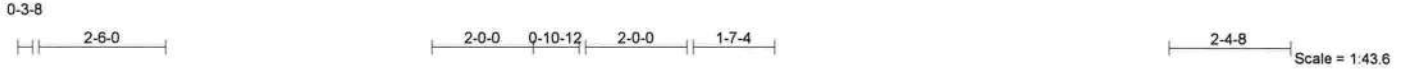


6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FL1	Truss Type Floor	Qty 3	Ply 1	Job Reference (optional) T24733603
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:04 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxYl1-oiVdypkhtjxLQ_UpzsdYUG6gnMcyXOsYJkOn_GywwQRz



0-3-8 0-3-8	10-6-12 10-3-4	11-2-4 0-7-8 1-0-0	12-2-4 1-0-0	13-2-4 1-0-0	25-3-8 12-1-4	25-9-0 0-1-8
Plate Offsets (X,Y)-- [1:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,Edge]						

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.83	Vert(LL)	-0.56 17-18	>528	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.95	Vert(CT)	-0.78 17-18	>384	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.94	Horz(CT)	-0.01 14	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 134 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-9: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-19: 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 2-2-0 oc bracing: 20-21.

REACTIONS.

(size) 1=0-3-0, 14=0-3-0
Max Grav 1=910(LC 1), 14=910(LC 1)

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

TOP CHORD 1-2=1805/0, 2-3=1803/0, 3-4=4271/0, 4-5=4263/0, 5-6=4735/0, 6-7=4735/0,
7-8=4518/0, 8-10=4518/0, 10-11=3063/0, 11-12=3063/0
BOT CHORD 20-21=0/3181, 18-20=0/4675, 17-18=0/4736, 16-17=0/4735, 15-16=0/3990, 14-15=0/1715
WEBS 1-21=0/1967, 3-21=1523/0, 3-20=0/1190, 5-20=580/0, 5-18=218/426, 12-14=1905/0,
12-15=0/1491, 10-15=1024/0, 10-16=0/585, 7-16=595/138

NOTES-

- Unbalanced floor live loads have been considered for this design.
- The Fabrication Tolerance at joint 19 = 11%
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



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

July 20,2021

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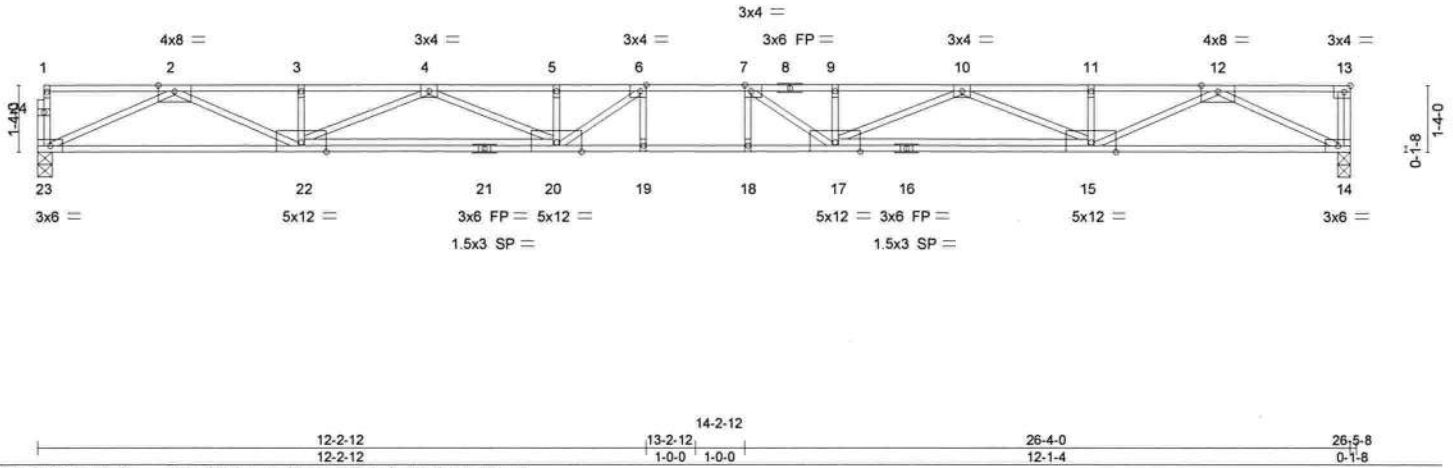
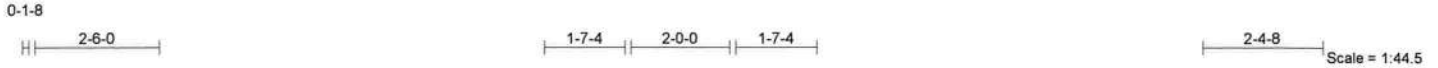


6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FL2	Truss Type Floor	Qty 10	Ply 1	Job Reference (optional) T24733604
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:10 2021 Page 1
ID: XJKHpyKrMOkGaZufSxqtPWyxY11-dusuDtpSSZhU8vpyzK6kMjXMiEnjVx6uQhfr5BwywQRT



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.83	Vert(LL)	-0.69	19	>456	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.68	Vert(CT)	-0.94	18-19	>331		
BCLL 0.0	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.11	14	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 147 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except*
 16-21: 2x4 SP M 31(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=0-3-8, 14=0-3-0
 Max Grav 23=952(LC 1), 14=956(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3529/0, 3-4=-3521/0, 4-5=-5167/0, 5-6=-5174/0, 6-7=-5134/0, 7-9=-5149/0,
 9-10=-5142/0, 10-11=-3458/0, 11-12=-3466/0
 BOT CHORD 22-23=0/1938, 20-22=0/4550, 19-20=0/5136, 18-19=0/5134, 17-18=0/5136, 15-17=0/4507,
 14-15=0/1856
 WEBS 6-19=-252/46, 2-23=-2129/0, 2-22=0/1737, 4-22=-1132/0, 4-20=0/678, 6-20=-456/431,
 12-14=-2061/0, 12-15=0/1758, 10-15=-1154/0, 10-17=0/699, 7-17=-475/411

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint 21 = 11%, joint 16 = 11%
 - Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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

July 20,2021

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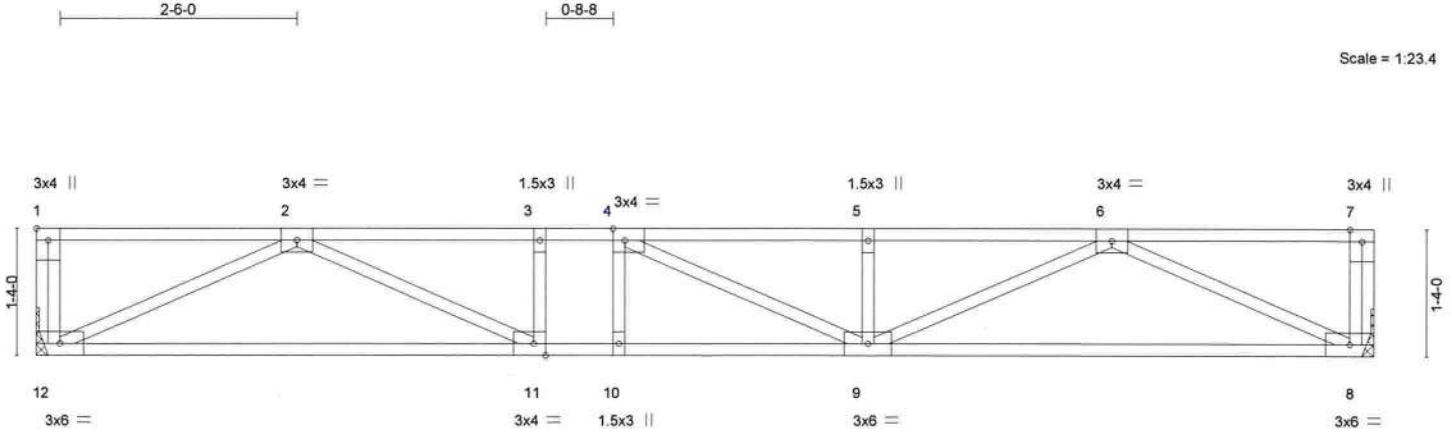
6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss FL3	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733605
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:11 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxY11-55QHQCp4DspLl3X9uqFbGkv_gB5ngirawJbfkMywQRs

Scale = 1:23.4



14-1-0
14-1-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.34	Vert(LL)	-0.09 9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.55	Vert(CT)	-0.12 9-10	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.02 8	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 73 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 12=Mechanical, 8=Mechanical
Max Grav 12=507(LC 1), 8=507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1412/0, 3-4=-1412/0, 4-5=-1406/0, 5-6=-1406/0
BOT CHORD 11-12=0/921, 10-11=0/1412, 9-10=0/1412, 8-9=0/916
WEBS 6-8=-1009/0, 2-12=-1014/0, 6-9=0/541, 2-11=0/550

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Joaquin Velez PE No.68182
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Date:

July 20,2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FL4	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733606
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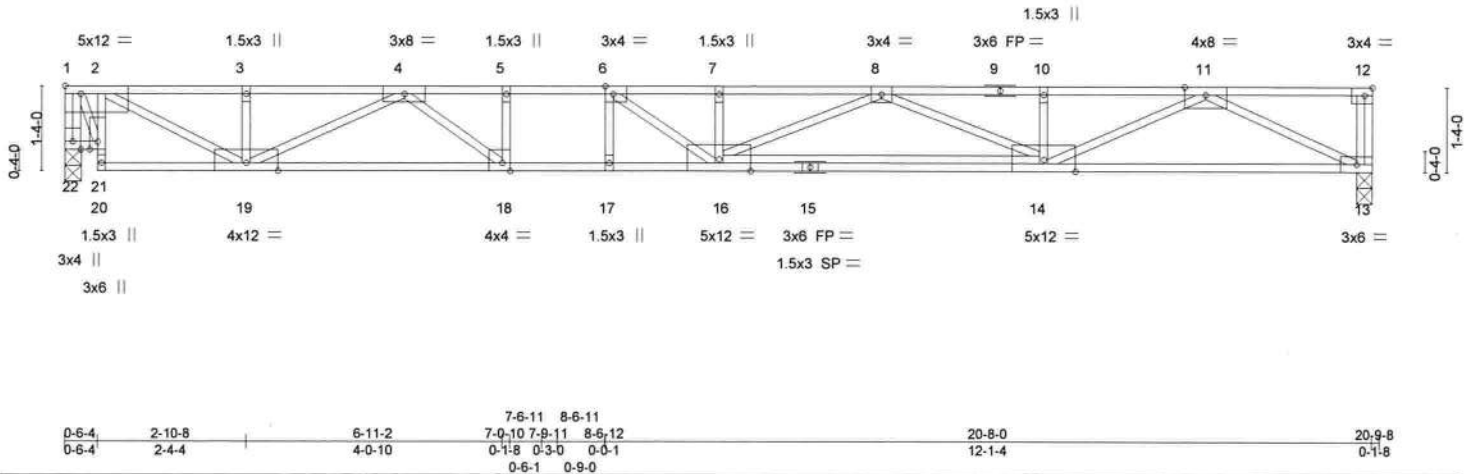
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:12 2021 Page 1

ID:XJKHpyKrMOKGaZufSxqtpWyyYI1-ZH_feYqI_AxCNC6LRXnqpyR0waN2P_BjBzKCGpywQRr



Scale = 1:35.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.95	Vert(LL)	-0.47 16-17	>526	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.64 16-17	>384	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.08 13	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 114 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except* 9-12: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 15-20: 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat) *Except* 2-20: 2x4 SP No.2(flat)	

REACTIONS. (size) 22=0-3-2, 13=0-3-0
Max Grav 22=1123(LC 1), 13=1123(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-1121/0, 1-2=-586/0, 2-3=-2242/0, 3-4=-2242/0, 4-5=-4414/0, 5-6=-4414/0,
6-7=-5062/0, 7-8=-5045/0, 8-10=-3800/0, 10-11=-3813/0
BOT CHORD 19-20=0/424, 18-19=0/3647, 17-18=0/4414, 16-17=0/4419, 14-16=0/4707, 13-14=0/2123
WEBS 6-17=-391/0, 5-18=-417/0, 11-13=-2357/0, 11-14=0/1844, 8-14=-998/0, 8-16=0/432,
7-16=-338/0, 6-16=-71/990, 4-18=0/1101, 3-19=-284/0, 2-19=0/2055, 4-19=-1560/0,
2-21=-1094/0, 1-21=0/1262

- NOTES-
- Unbalanced floor live loads have been considered for this design.
 - The Fabrication Tolerance at joint 15 = 11%
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

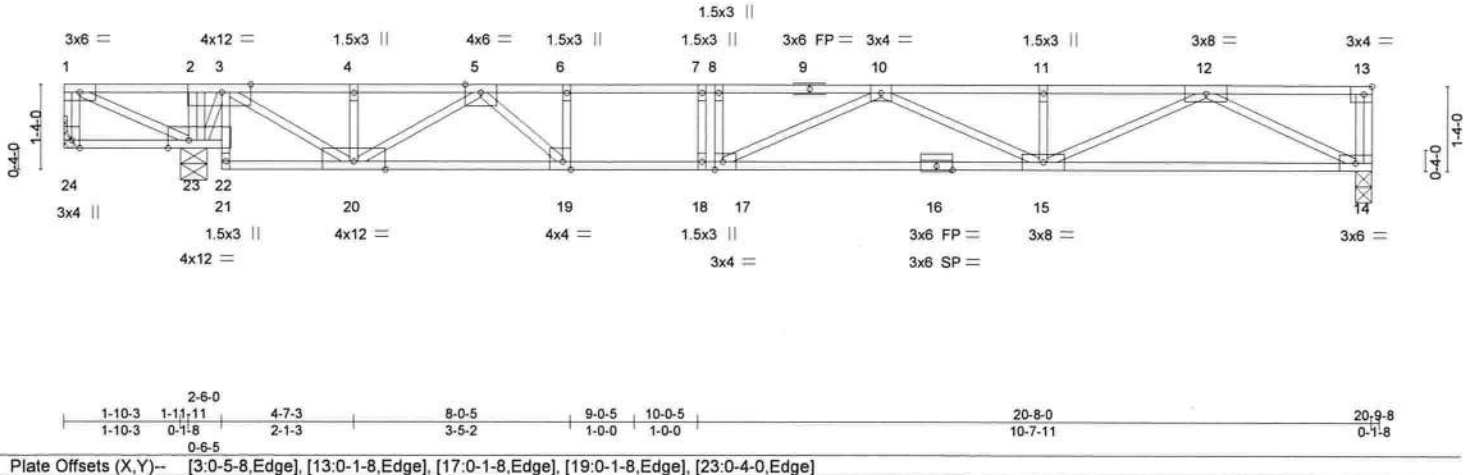
Job 1459442	Truss FL5	Truss Type Floor	Qty 1	Ply 1	T24733607
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:13 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyxY11-1TY1nurKIU43?MhY?F13L9_BA_h98UztNd4moFywQRq



Scale = 1:35.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.50 15-17	>443	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.94	Vert(CT)	-0.69 15-17	>320	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.04 14	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH						
								Weight: 108 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
 1-9: 2x4 SP M 31(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
 22-24: 2x4 SP No.2(flat), 16-21: 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,22-23.

REACTIONS. (size) 24=Mechanical, 23=0-4-15, 14=0-3-0
 Max Uplift 24=134(LC 4)
 Max Grav 24=242(LC 3), 23=1581(LC 1), 14=974(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/870, 2-3=0/869, 3-4=-1279/0, 4-5=-1279/0, 5-6=-3268/0, 6-7=-3268/0, 7-8=-3268/0, 8-10=-3268/0, 10-11=-2973/0, 11-12=-2973/0
BOT CHORD 19-20=0/2408, 18-19=0/3268, 17-18=0/3268, 15-17=0/3528, 14-15=0/1775, 22-23=-274/0
WEBS 6-19=-584/0, 12-14=-1972/0, 12-15=0/1324, 10-15=-613/0, 10-17=-602/0, 3-23=-1198/0, 3-20=0/1715, 5-20=-1319/0, 5-19=0/1245, 1-23=-955/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - The Fabrication Tolerance at joint 16 = 11%
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 24.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-21=-10, 1-13=-100, 22-24=-10
 Concentrated Loads (lb)
 Vert: 1=-250
- Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-21=-10, 1-13=-100, 22-24=-10
 Concentrated Loads (lb)
 Vert: 1=-250



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

July 20,2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5-19-2020 BEFORE USE</p> <p>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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 6904 Parke East Blvd. Tampa, FL 36610
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	FL5	Floor	1	1	T24733607

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:13 2021 Page 2
ID: XJKHpyKrMokGaZufSxqtpWyxY11-1TY1nurKIU43?MhY?F13L9_BA_h98UztNd4moFywQRq

LOAD CASE(S) Standard

- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-13=-20, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-20, 2-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-13=-20, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-20, 2-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-7=-20, 7-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-6=-20, 6-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-7=-20, 7-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-10, 1-2=-100, 2-6=-20, 6-13=-100, 22-24=-10
Concentrated Loads (lb)
Vert: 1=-250

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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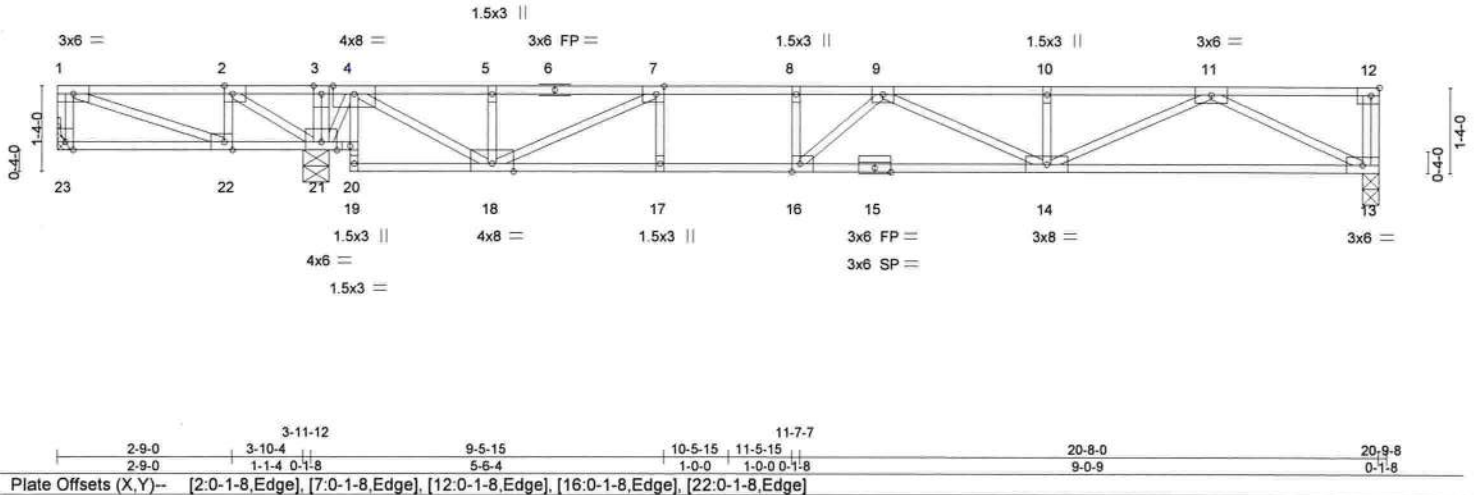
Job 1459442	Truss FL6	Truss Type Floor	Qty 1	Ply 1	T24733608
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:15 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxYl1-zsfnGasbH5KnEgqw7fKXQa3duoOncP_9qxZst7ywQRo



Scale = 1:34.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.87	Vert(LL) -0.32 14-16 >622 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.72	Vert(CT) -0.43 14-16 >461 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 13 n/a n/a		
	Code FBC2020/TPI2014			Weight: 107 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat) *Except*
 1-6: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat) *Except*
 13-15: 2x4 SP No.1(flat), 20-23: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 23=Mechanical, 13=0-3-0, 21=0-4-15
 Max Uplift 23=115(LC 4)
 Max Grav 23=164(LC 3), 13=861(LC 4), 21=1348(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-140/426, 2-3=0/808, 3-4=0/809, 4-5=-1193/0, 5-7=-1193/0, 7-8=-2534/0, 8-9=-2534/0, 9-10=-2506/0, 10-11=-2506/0
BOT CHORD 17-18=0/2534, 16-17=0/2534, 14-16=0/2786, 13-14=0/1537, 21-22=-426/140, 20-21=-257/0
WEBS 7-18=-1482/0, 4-18=0/1510, 11-13=-1708/0, 11-14=0/1070, 9-14=-315/0, 9-16=-473/133, 2-21=-683/0, 1-22=-450/148, 4-21=-1157/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint 15 = 11%
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 23.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
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 Date:

July 20,2021

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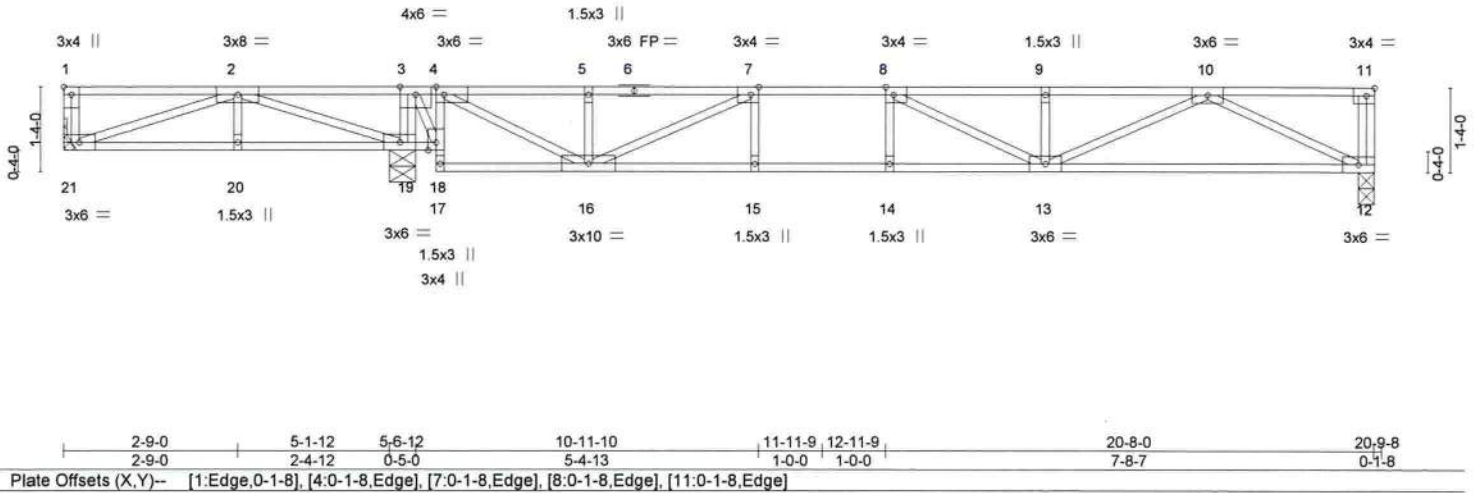
Job 1459442	Truss FL7	Truss Type Floor	Qty 1	Ply 1	T24733609
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:16 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyYI1-R2DAUwd2PSesqP6gNrmzoc1BicLrxJ3bIQPaywQRn



Scale = 1:35.0



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.75	Vert(LL) -0.25	13-14	>716	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.96	Vert(CT) -0.33	13-14	>548	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.03	12	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 107 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
12-17: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 21=Mechanical, 19=0-4-15, 12=0-3-0
Max Uplift 21=35(LC 4)
Max Grav 21=253(LC 3), 19=1286(LC 1), 12=791(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/687, 3-4=-0/313, 4-5=-1191/0, 5-7=-1191/0, 7-8=-2242/0, 8-9=-2223/0, 9-10=-2223/0
BOT CHORD 15-16=0/2242, 14-15=0/2242, 13-14=0/2242, 12-13=0/1386, 20-21=-201/408, 19-20=-201/408, 18-19=-687/0
WEBS 2-21=-431/211, 2-19=-876/0, 7-16=-1164/0, 5-16=-256/25, 4-16=0/1467, 10-12=-1539/0, 10-13=0/926, 9-13=-313/0, 8-13=-331/184, 3-19=-963/0, 4-18=-880/0, 3-18=0/1013

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 21.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



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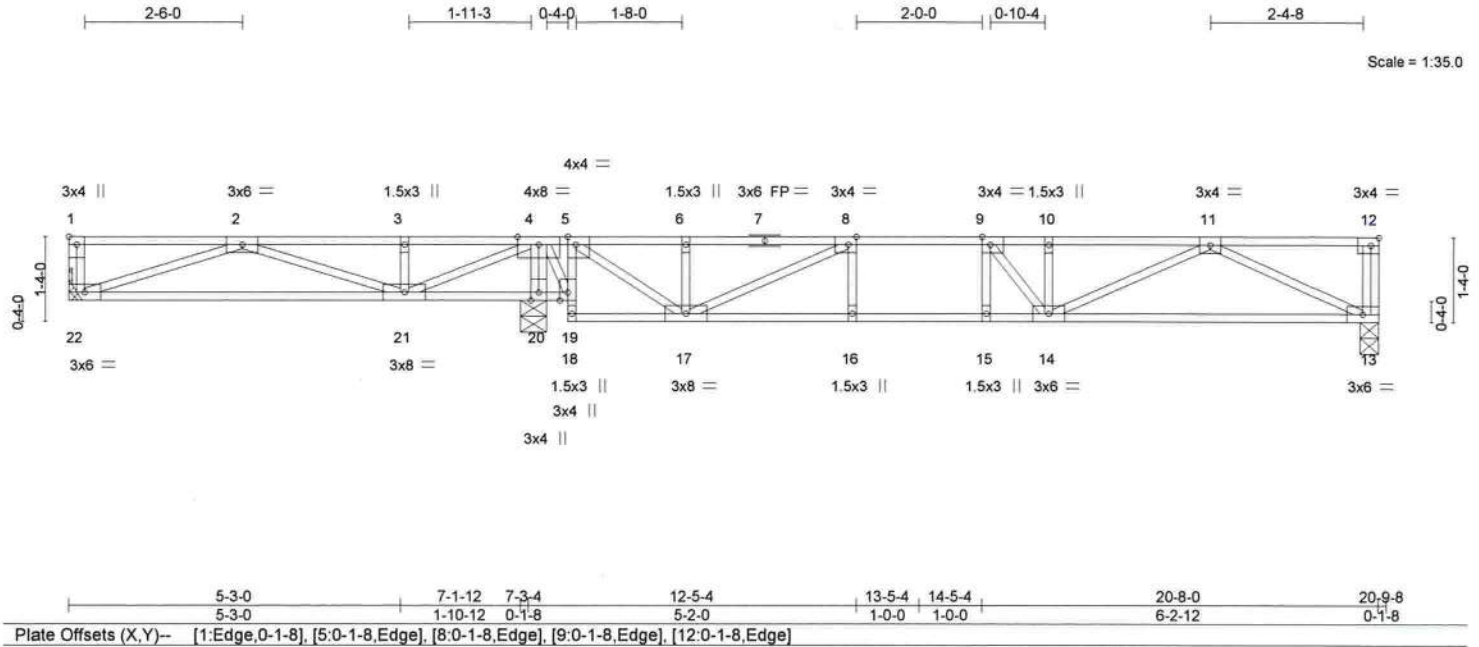
July 20,2021

Job 1459442	Truss FL8	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733610
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:17 2021 Page 1
ID: XJKHpyKrMOkGaZufSxqtpWyYI1-wFnYhGurpiaVT__JE4M?W79zQb1L4HXSIF2zx0ywQRm

Scale = 1:35.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.99	Vert(LL) -0.14 14-15 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.84	Vert(CT) -0.18 14-15 >887 240		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH	Horz(CT) 0.02 13 n/a n/a	Weight: 107 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 22=Mechanical, 13=0-3-8, 20=0-4-15
Max Grav 22=367(LC 3), 13=681(LC 4), 20=1254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/204, 3-4=-550/204, 4-5=0/331, 5-6=-799/0, 6-8=-799/0, 8-9=-1667/0, 9-10=-1734/0, 10-11=-1734/0
BOT CHORD 16-17=0/1667, 15-16=0/1667, 14-15=0/1667, 13-14=0/1162, 21-22=-14/719, 20-21=-651/0, 19-20=-718/0
WEBS 2-22=-758/14, 2-21=-340/0, 4-21=0/970, 8-17=-979/0, 4-19=0/887, 11-13=-1290/0, 11-14=0/633, 10-14=-281/2, 9-14=-194/298, 5-19=-734/0, 5-17=0/1098, 4-20=-1233/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



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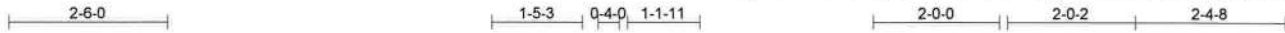
July 20,2021

Job 1459442	Truss FL9	Truss Type Floor	Qty 1	Ply 1	T24733611
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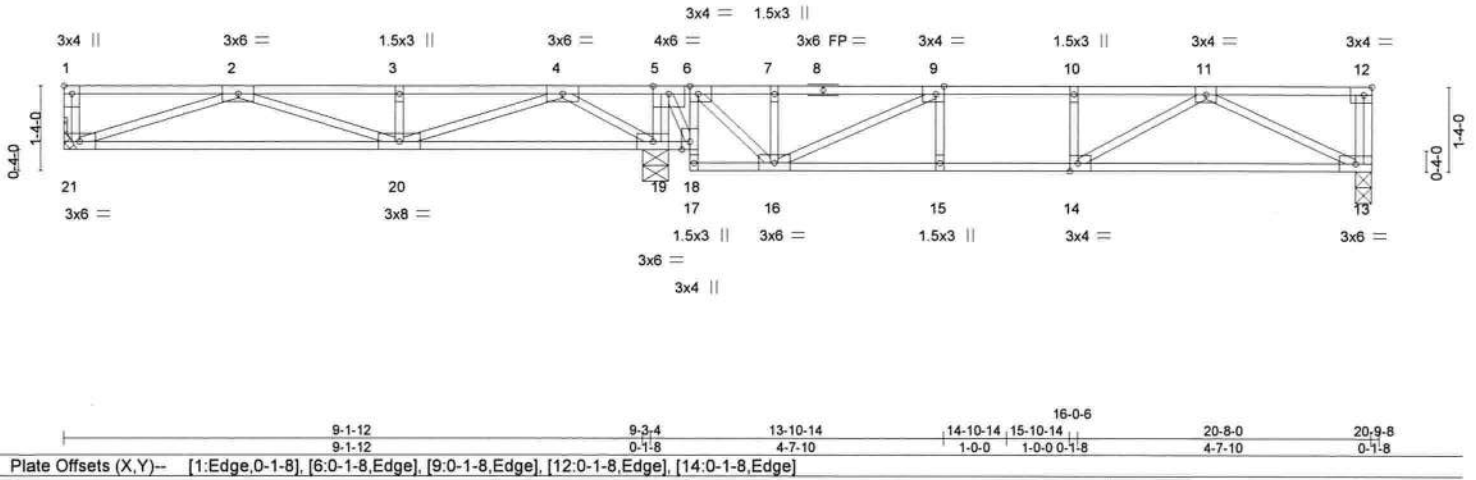
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:19 2021 Page 1

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Scale = 1:35.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.64	Vert(LL) -0.13 13-14 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 1.00	Vert(CT) -0.19 13-14 >706 240		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH	Horz(CT) 0.01 13 n/a n/a	Weight: 106 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 21=Mechanical, 19=0-4-15, 13=0-3-0
Max Grav 21=484(LC 8), 19=1233(LC 1), 13=575(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1254/0, 3-4=-1254/0, 4-5=0/713, 5-6=0/397, 6-7=-514/1, 7-9=-514/1, 9-10=-1224/0, 10-11=-1224/0
BOT CHORD 16-17=-287/0, 15-16=0/1224, 14-15=0/1224, 13-14=0/937, 20-21=0/1067, 19-20=-161/559, 18-19=-713/0
WEBS 2-21=-1125/0, 3-20=-250/0, 4-20=0/866, 4-19=-1026/0, 9-16=-837/0, 11-13=-1041/0, 11-14=0/362, 5-19=-690/0, 6-18=-608/0, 5-18=0/687, 6-16=0/795

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION. Do not erect truss backwards.



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July 20,2021

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Job 1459442	Truss FL10	Truss Type FLOOR	Qty 2	Ply 1	Job Reference (optional) T24733612
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:05 2021 Page 1
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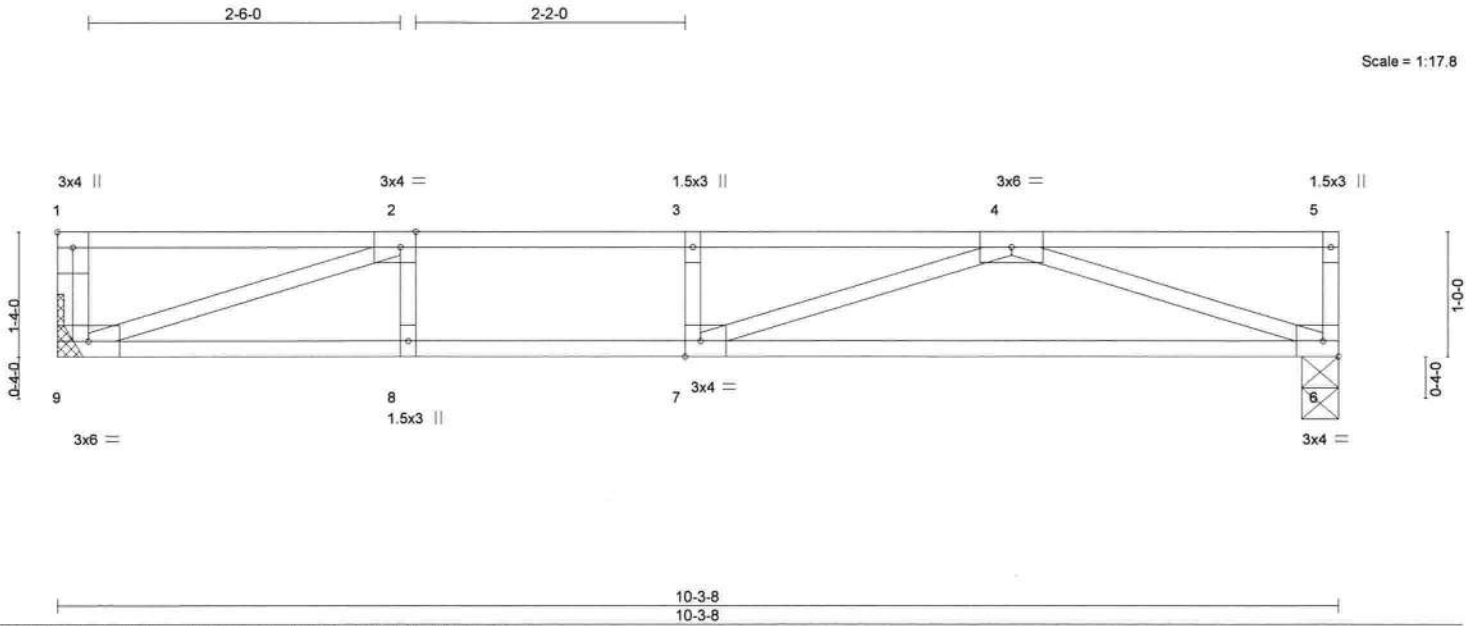


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [7:0-1-8,Edge]		10-3-8	10-3-8		
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.76	Vert(LL) -0.26 6-7 >471 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Vert(CT) -0.38 6-7 >317 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) -0.02 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 48 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 6=0-3-8, 9=Mechanical
Max Grav 6=556(LC 1), 9=556(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1498/0, 3-4=-1498/0
BOT CHORD 8-9=0/1498, 7-8=0/1498, 6-7=0/1253
WEBS 4-6=-1324/0, 2-9=-1576/0, 4-7=0/452

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



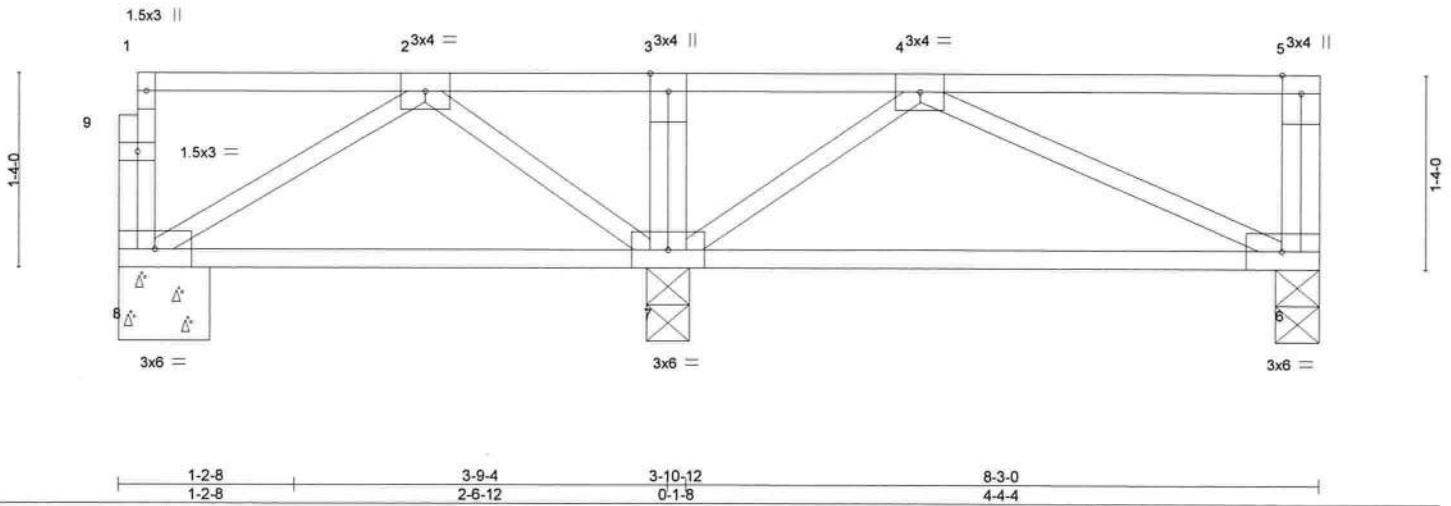
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MiTek USA, Inc. FL Cert 6634
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Date:

July 20,2021

Job 1459442	Truss FL11	Truss Type Floor Girder	Qty 1	Ply 1	T24733613
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:06 2021 Page 1
ID: XJKHpyKrMOKGaZufSxtpWyxY11-k7dONVmxOKB2fHeB5GgQZhc9oAUF?UXrm2tu29ywQRx



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.29	Vert(LL)	0.00	7 ****	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.02	6-7 >999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.00	6 n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-P						
								Weight: 47 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

(size) 8=0-7-8, 6=0-3-8, 7=0-3-8
Max Grav 8=297(LC 3), 6=113(LC 4), 7=656(LC 1)

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

BOT CHORD 7-8=0/388
WEBS 2-7=-647/0, 2-8=-451/0, 4-7=-266/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 498 lb down at 2-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-8=-7, 1-5=-67
Concentrated Loads (lb)
Vert: 2=-463(F)



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

July 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss FL12	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733614
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:06 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-k7dONVmxOKB2fHeB5GgQZhc7UANS?QRm2tu29ywQRx

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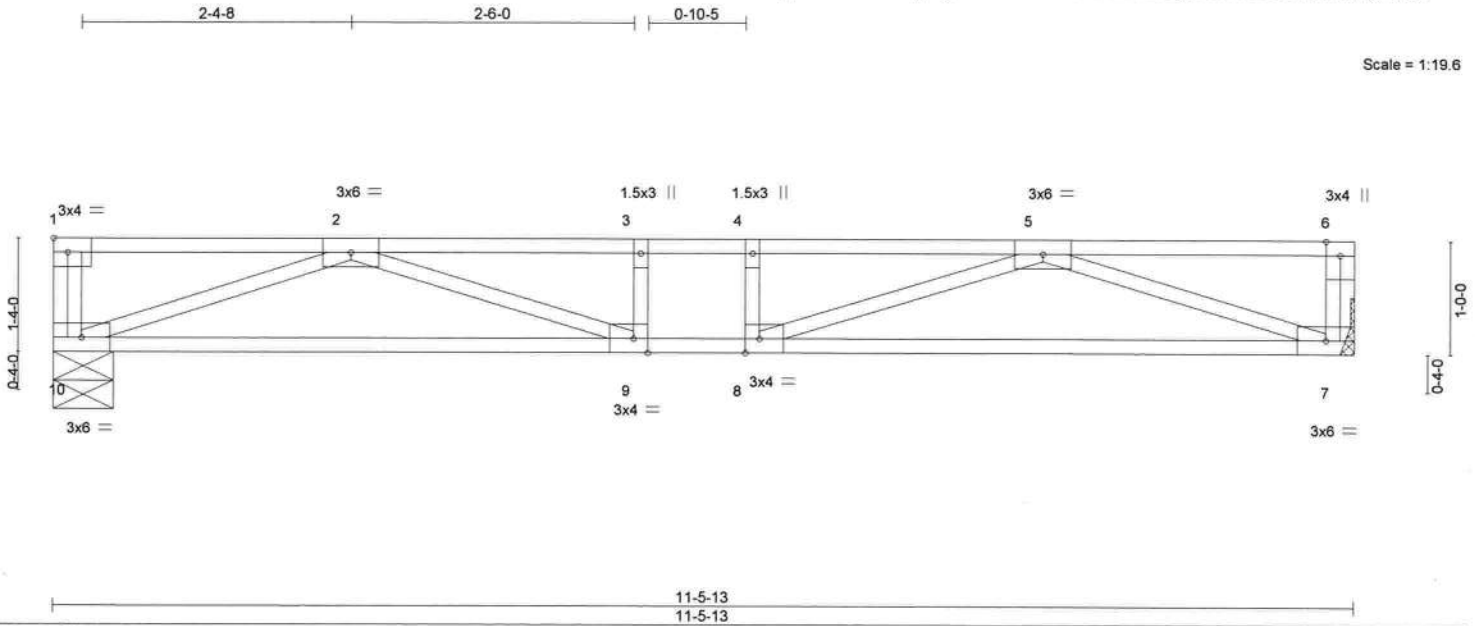


Plate Offsets (X,Y)--	[8:0-1-8,Edge], [9:0-1-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.44	Vert(LL) -0.11	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.62	Vert(CT) -0.19	7-8	>718	240		
BCLL 0.0	Rep Stress Incr YES		WB 0.42	Horz(CT) 0.03	7	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH						
								Weight: 56 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 7=Mechanical, 10=0-6-6
Max Grav 7=618(LC 1), 10=618(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2014/0, 3-4=-2014/0, 4-5=-2014/0
BOT CHORD 9-10=0/1420, 8-9=0/2014, 7-8=0/1471
WEBS 5-7=-1551/0, 2-10=-1504/0, 5-8=0/667, 2-9=0/701

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

July 20,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss FL13	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733615
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:07 2021 Page 1

ID:XJKHpyKrfMokGaZufSxqtpWyxY11-CKAmbrmZ9eJvHRDof_Bf6ukH3ZfjkrC_?idRabywQRw



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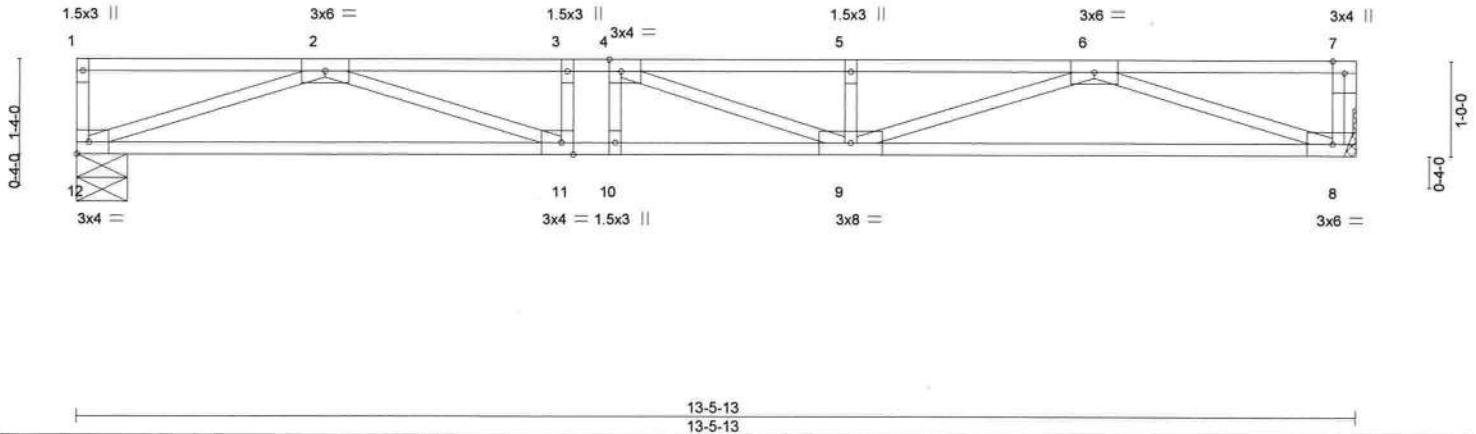


Plate Offsets (X,Y)--		[4:0-1-8,Edge], [11:0-1-8,Edge]		13-5-13		13-5-13			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.51	Vert(LL)	-0.19 9-10	>840	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.25 9-10	>632	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.04 8	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 66 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 12=0-6-6, 8=Mechanical
Max Grav 12=731(LC 1), 8=731(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2704/0, 3-4=-2704/0, 4-5=-2714/0, 5-6=-2714/0
BOT CHORD 11-12=0/1777, 10-11=0/2704, 9-10=0/2704, 8-9=0/1804
WEBS 6-8=-1901/0, 2-12=-1878/0, 6-9=0/962, 2-11=0/979, 5-9=-267/0, 4-9=-328/301

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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6904 Parke East Blvd. Tampa FL 33610
Date:

July 20,2021

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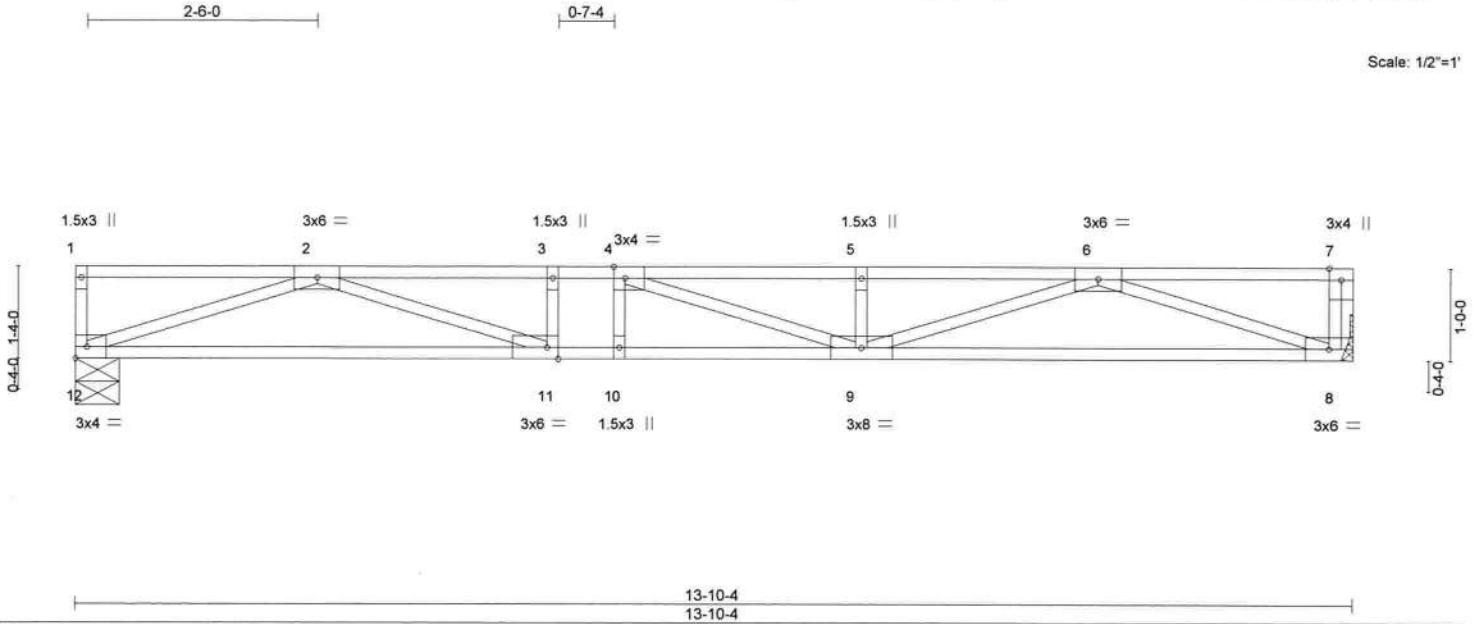
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss FL14	Truss Type Floor	Qty 4	Ply 1	Job Reference (optional) T24733616
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:08 2021 Page 1
ID:XJKHpyKrMOKGaZuFSxtpWyxY11-gWk8oBnCwxRmuboaChiue6HPkzz7THA7DMM771ywQRv

Scale: 1/2"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.22	9-10	>749	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	9-10	>563	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	8	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-SH							Weight: 67 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 12=0-5-12, 8=Mechanical
Max Grav 12=752(LC 1), 8=752(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2840/0, 3-4=-2840/0, 4-5=-2844/0, 5-6=-2844/0
BOT CHORD 11-12=0/1837, 10-11=0/2840, 9-10=0/2840, 8-9=0/1863
WEBS 6-8=-1964/0, 2-12=-1941/0, 6-9=0/1036, 2-11=0/1063, 5-9=-285/0, 4-9=-369/309

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

July 20,2021

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Tampa, FL 33610

Job 1459442	Truss FL15	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional) T24733617
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:08 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxYI1-gWk8oBnCwxRmuboaChiue6HQsz?fTlz7DMM?771ywQRv



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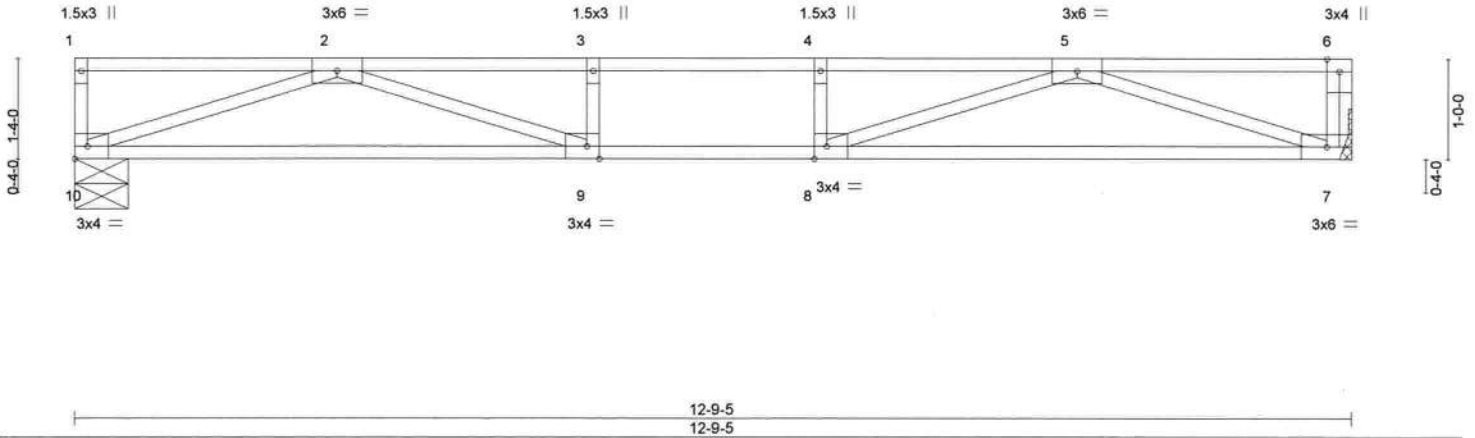


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]		12-9-5 12-9-5							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.63	Vert(LL)	-0.22 7-8	>675	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.32 7-8	>474	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.04 7	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 59 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 10=0-6-6, 7=Mechanical
Max Grav 10=692(LC 1), 7=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2461/0, 3-4=-2461/0, 4-5=-2461/0
BOT CHORD 9-10=0/1656, 8-9=0/2461, 7-8=0/1687
WEBS 5-7=-1778/0, 2-10=-1750/0, 5-8=0/945, 2-9=0/966

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
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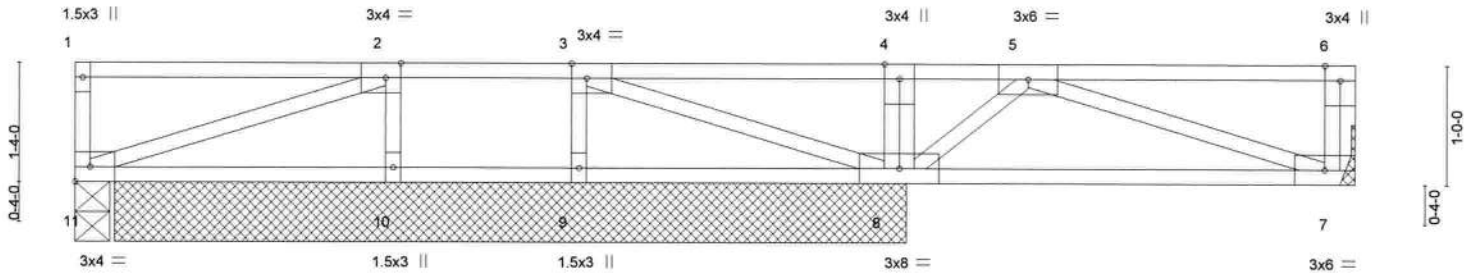
Job 1459442	Truss FL16	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional)	T24733618
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:09 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyY11-9ilW0XoqhFZdWNmmPD7BJpeONWuCrWHS?6YfUyqQRu



Scale = 1:18.7



0-4-0 0-4-0	6-11-5 6-7-5	7-0-13 0-1-8	10-9-5 3-8-8
Plate Offsets (X,Y)-- [2-0-1-8,Edge], [3-0-1-8,Edge]			

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL) 0.00	8	****	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.13	Vert(CT) -0.02	7-8	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH						
							Weight: 53 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. Except: 10-0-0 oc bracing: 7-8.

REACTIONS. All bearings 0-3-8 except (jt=length) 10=6-8-0, 9=6-8-0, 7=Mechanical, 8=6-8-0.
(ib) - Max Grav All reactions 250 lb or less at joint(s) 11, 11, 11, 9, 7 except 10=271(LC 1), 8=416(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=336/2

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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July 20,2021

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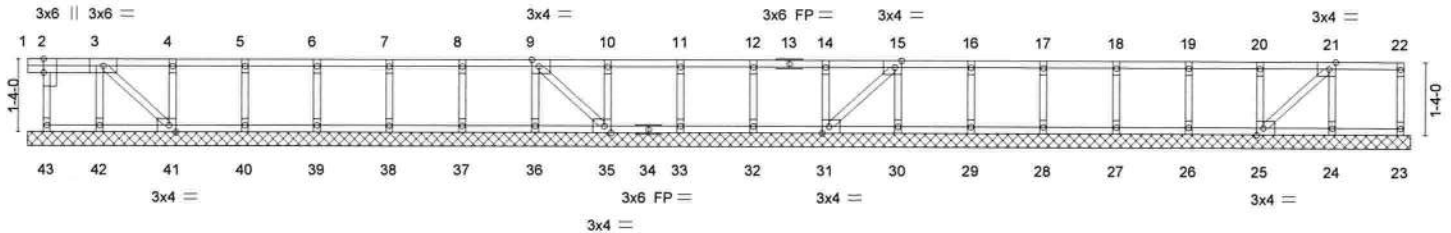
Job 1459442	Truss FX1	Truss Type Floor Supported Gable	Qty 1	Ply 1	T24733619
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:20 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyY11-KqTgJHwj5dy3KRjuvDwi7enbPpLLHryu_DGdYLywQRj

0-3-8

Scale = 1:40.7



0-3-8	25-5-0				
0-3-8	25-1-8				
Plate Offsets (X,Y)-- [2:0-3-0,Edge], [9:0-1-8,Edge], [15:0-1-8,Edge], [21:0-1-8,Edge], [25:0-1-8,Edge], [31:0-1-8,Edge], [35:0-1-8,Edge], [41:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) -0.00 1 n/r 180	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 23 n/a n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 118 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 42-43,41-42,24-25,23-24.

REACTIONS. All bearings 25-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 43, 23, 42, 41, 40, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T24733620
1459442	G1G	Common Girder	1	2	

Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

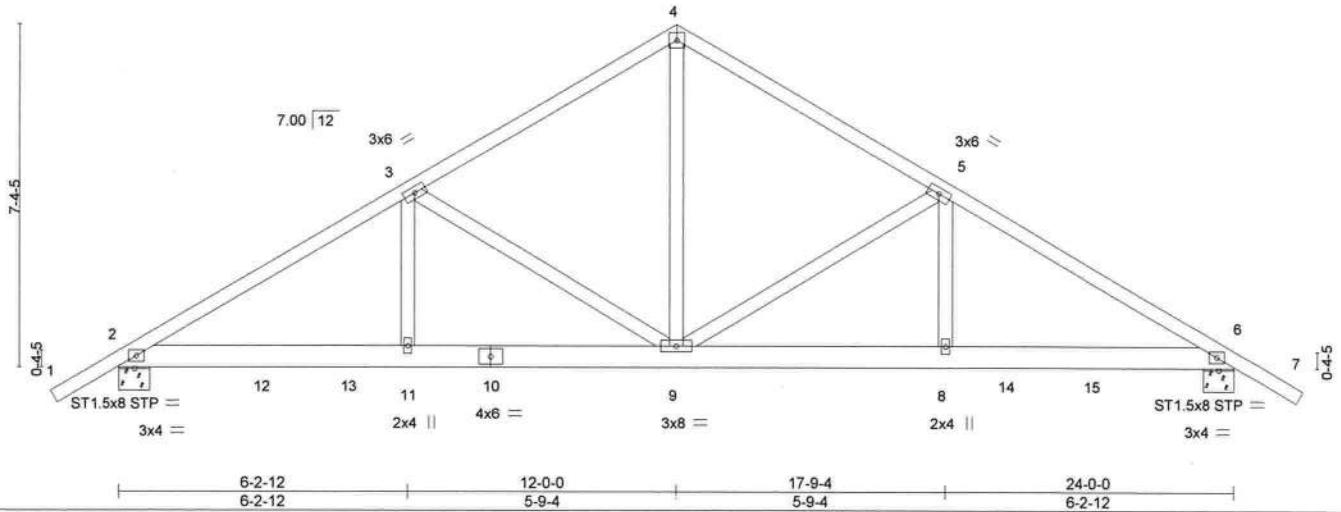
8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:21 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxY11-o013XdxMx4wybl4TwRrgrJicCsc0D42D10B4nywQRi



4x4 =

Scale: 1/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0 1.25	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.77	Vert(LL) -0.05 6-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.36	Vert(CT) -0.14 6-8 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH	Horz(CT) 0.04 6 n/a n/a		
				Weight: 282 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 6=0-8-0
 Max Horz 2=-156(LC 6)
 Max Uplift 2=-410(LC 8), 6=-410(LC 8)
 Max Grav 2=2765(LC 1), 6=2766(LC 1)

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

TOP CHORD 2-3=-4092/518, 3-4=-2317/340, 4-5=-2317/340, 5-6=-4092/518
 BOT CHORD 2-11=-344/3391, 9-11=-344/3391, 8-9=-344/3391, 6-8=-344/3391
 WEBS 4-9=-226/1725, 5-9=-1800/301, 5-8=-133/1332, 3-9=-1800/301, 3-11=-133/1333

NOTES-

- 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint 2 and 410 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 69 lb up at 3-0-12, 1160 lb down and 162 lb up at 4-11-4, and 1160 lb down and 162 lb up at 19-0-12, and 165 lb down and 69 lb up at 20-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-90, 4-7=-90, 2-6=-20



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

July 20,2021

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
 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T24733620
1459442	G1G	Common Girder	1	2	Job Reference (optional)

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:21 2021 Page 2
 ID:XJKHpyKrMokGaZufSxqtPWyxY11-o013XdxMsx4wybl4TwRxgrJicCSc0D42Dt0B4nywQRi

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12--165(B) 13--1160(B) 14--1160(B) 15--165(B)

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6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss G3G	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	Job Reference (optional)	T24733622
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:24 2021 Page 2

ID: XJKHpykrMokGaZufSxqtpWyxY11-CbiB9fzE9sVp20f82_elUx56QS2DRhUvrErh6ywrQRf

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 196 lb down and 264 lb up at 10-10-1, 266 lb down and 125 lb up at 11-8-12, 452 lb down and 203 lb up at 13-8-12, 452 lb down and 203 lb up at 15-8-12, 452 lb down and 203 lb up at 17-8-12, 452 lb down and 203 lb up at 19-4-12, and 452 lb down and 203 lb up at 21-4-12, and 295 lb down and 113 lb up at 23-7-2 on top chord, and 2912 lb down and 322 lb up at 10-10-0 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=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-130, 4-7=-130, 6-8=-50, 8-12=-226, 2-15=-20, 13-14=-20
Concentrated Loads (lb)
Vert: 18=-2726(F) 8=-132 12=-247 22=-238 23=-372 24=-372 25=-372 26=-372 27=-372
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-110, 4-7=-110, 6-8=-50, 8-12=-206, 2-15=-20, 13-14=-20
Concentrated Loads (lb)
Vert: 18=-2912(F) 8=-112 12=-225 22=-215 23=-339 24=-339 25=-339 26=-339 27=-339
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 6-8=-50, 8-12=-146, 2-15=-40, 13-14=-40
Concentrated Loads (lb)
Vert: 18=-1799(F) 8=-90 12=-187 22=-153 23=-268 24=-268 25=-268 26=-268 27=-268
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-4=3, 4-5=3, 5-7=-2, 6-8=26, 8-12=-80, 2-15=-8, 13-14=-8
Horz: 1-2=-27, 2-4=-12, 4-5=-12, 5-7=-7
Concentrated Loads (lb)
Vert: 18=311(F) 8=156 12=67 22=102 23=137 24=137 25=137 26=137 27=137
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=12, 4-5=12, 5-7=27, 6-8=16, 8-12=-70, 2-15=-8, 13-14=-8
Horz: 1-2=-15, 2-4=-20, 4-5=-20, 5-7=-35
Concentrated Loads (lb)
Vert: 18=311(F) 8=138 12=61 22=99 23=127 24=127 25=127 26=127 27=127
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-4=-60, 4-5=-60, 5-7=-55, 6-8=-51, 8-12=-147, 2-15=-20, 13-14=-20
Horz: 1-2=5, 2-4=10, 4-5=10, 5-7=5
Concentrated Loads (lb)
Vert: 18=322(F) 8=264 12=113 22=125 23=203 24=203 25=203 26=203 27=203
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-40, 4-5=-40, 5-7=-35, 6-8=-51, 8-12=-147, 2-15=-20, 13-14=-20
Horz: 1-2=-15, 2-4=-10, 4-5=-10, 5-7=-15
Concentrated Loads (lb)
Vert: 18=322(F) 8=252 12=113 22=125 23=203 24=203 25=203 26=203 27=203
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-4=20, 4-5=20, 5-7=35, 6-8=20, 8-12=-76, 2-15=-8, 13-14=-8
Horz: 1-2=-44, 2-4=-29, 4-5=-29, 5-7=-44
Concentrated Loads (lb)
Vert: 18=311(F) 8=134 12=64 22=100 23=133 24=133 25=133 26=133 27=133
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=10, 4-5=10, 5-7=25, 6-8=10, 8-12=-86, 2-15=-8, 13-14=-8
Horz: 1-2=-33, 2-4=-18, 4-5=-18, 5-7=-33
Concentrated Loads (lb)
Vert: 18=311(F) 8=155 12=71 22=104 23=144 24=144 25=144 26=144 27=144
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=-51, 4-5=-51, 5-7=-46, 6-8=-51, 8-12=-147, 2-15=-20, 13-14=-20
Horz: 1-2=-4, 2-4=1, 4-5=1, 5-7=-4
Concentrated Loads (lb)
Vert: 18=322(F) 8=258 12=113 22=125 23=203 24=203 25=203 26=203 27=203
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-4=-51, 4-5=-51, 5-7=-46, 6-8=-51, 8-12=-147, 2-15=-20, 13-14=-20
Horz: 1-2=-4, 2-4=1, 4-5=1, 5-7=-4
Concentrated Loads (lb)
Vert: 18=322(F) 8=258 12=113 22=125 23=203 24=203 25=203 26=203 27=203
- 12) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 6-8=-50, 8-12=-146, 2-15=-20, 13-14=-20
Concentrated Loads (lb)
Vert: 18=-2357(F) 8=-52 12=-159 22=-144 23=-241 24=-241 25=-241 26=-241 27=-241
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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6904 Parke East Blvd.
Tampa, FL 38610

Job	Truss	Truss Type	Qty	Ply	
1459442	G3G	HALF HIP GIRDER	1	2	T24733622

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:24 2021 Page 3
ID:XJKHpyKrMOKGaZufSxqtpWyXy11-CbiB9fzE9sVp20f82_elUx56QS2DRHUVrErh6yWQRf

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-114, 2-4=-118, 4-5=-118, 5-7=-114, 6-8=-51, 8-12=-207, 2-15=-20, 13-14=-20
Horz: 1-2=4, 2-4=8, 4-5=8, 5-7=4
- Concentrated Loads (lb)
Vert: 18=131(F) 8=220 12=84 22=91 23=151 24=151 25=151 26=151 27=151
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-99, 2-4=-103, 4-5=-103, 5-7=-99, 6-8=-51, 8-12=-207, 2-15=-20, 13-14=-20
Horz: 1-2=-11, 2-4=-7, 4-5=-7, 5-7=-11
- Concentrated Loads (lb)
Vert: 18=131(F) 8=210 12=84 22=91 23=151 24=151 25=151 26=151 27=151
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-107, 2-4=-111, 4-5=-111, 5-7=-107, 6-8=-51, 8-12=-207, 2-15=-20, 13-14=-20
Horz: 1-2=-3, 2-4=1, 4-5=1, 5-7=-3
- Concentrated Loads (lb)
Vert: 18=131(F) 8=215 12=84 22=91 23=151 24=151 25=151 26=151 27=151
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-107, 2-4=-111, 4-5=-111, 5-7=-107, 6-8=-51, 8-12=-207, 2-15=-20, 13-14=-20
Horz: 1-2=-3, 2-4=1, 4-5=1, 5-7=-3
- Concentrated Loads (lb)
Vert: 18=131(F) 8=215 12=84 22=91 23=151 24=151 25=151 26=151 27=151
- 17) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-4=-130, 4-7=-130, 6-8=-50, 8-12=-146, 2-15=-20, 13-14=-20
- Concentrated Loads (lb)
Vert: 18=-2726(F) 8=-196 12=-295 22=-266 23=-452 24=-452 25=-452 26=-452 27=-452
- 18) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 6-8=-50, 8-12=-226, 2-15=-20, 13-14=-20
- Concentrated Loads (lb)
Vert: 18=-2726(F) 8=-182 12=-247 22=-238 23=-372 24=-372 25=-372 26=-372 27=-372
- 19) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-4=-110, 4-7=-110, 6-8=-50, 8-12=-146, 2-15=-20, 13-14=-20
- Concentrated Loads (lb)
Vert: 18=-2912(F) 8=-160 12=-261 22=-236 23=-399 24=-399 25=-399 26=-399 27=-399
- 20) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 6-8=-50, 8-12=-206, 2-15=-20, 13-14=-20
- Concentrated Loads (lb)
Vert: 18=-2912(F) 8=-150 12=-225 22=-215 23=-339 24=-339 25=-339 26=-339 27=-339

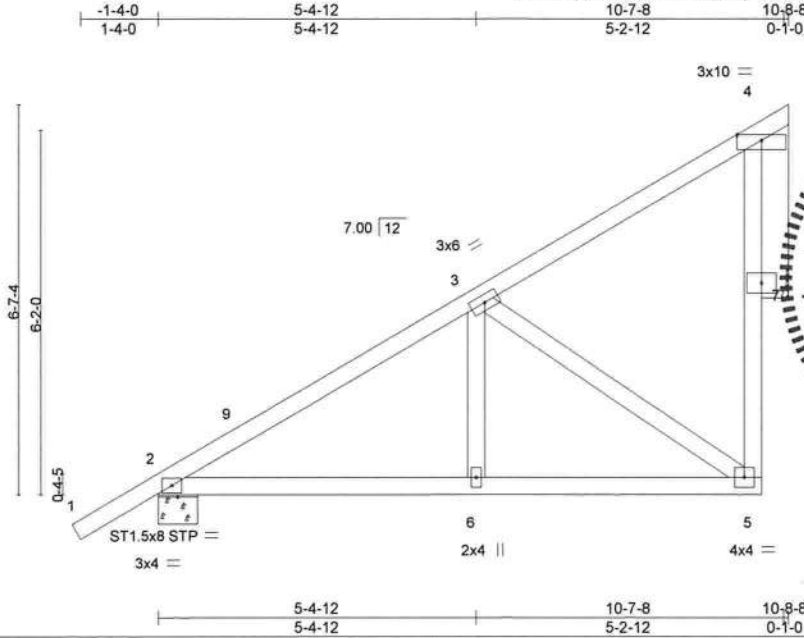
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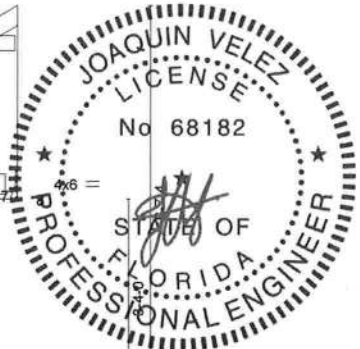
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Tampa, FL 36610

Job 1459442	Truss G4	Truss Type Jack-Closed	Qty 1	Ply 1	Job Reference (optional) 8 430 s Mar 22 2021 MiTek Industries, Inc. Tue Jul 20 09:50:31 2021 Page 1	T24733623
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Scale = 1:37.7



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

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 0.43	Vert(LL)	-0.02	2-6	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.05	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.09	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-5: 2x4 SP No.2	
OTHERS 2x6 SP No.2	


REACTIONS. (lb/size) 2=735/0-8-0, 8=496/Mechanical
Max Horz 2=205(LC 12)
Max Uplift 2=-80(LC 12), 8=-99(LC 12)
Max Grav 2=735(LC 1), 8=500(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-720/0, 3-9=-607/0, 5-7=-63/361, 4-7=-63/361
BOT CHORD 2-6=-128/519, 5-6=-128/519
WEBS 3-5=-555/137, 4-8=-513/124

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 10-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 80 lb uplift at joint 2 and 99 lb uplift at joint 8.

LOAD CASE(S) Standard

July 20,2021

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Job 1459442	Truss G5X	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	T24733624
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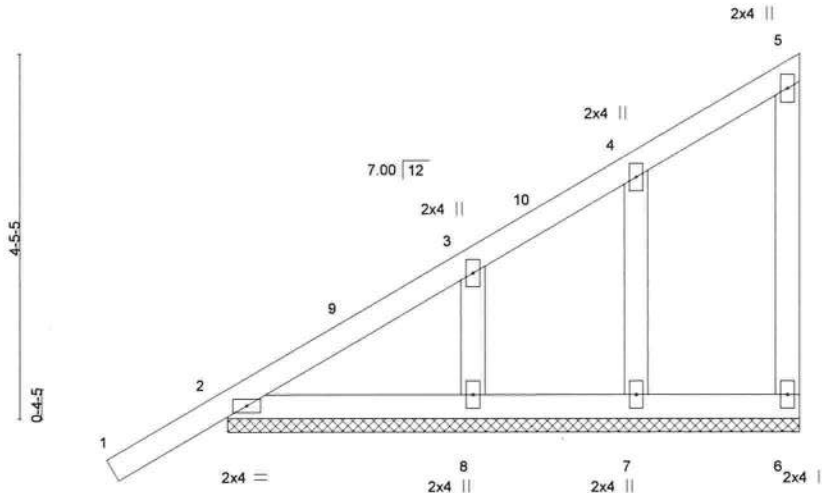
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:25 2021 Page 1

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Scale = 1:27.1



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 0.19	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00		n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 37 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-0-0.
(lb) - Max Horz 2=150(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 2=300(LC 1), 8=285(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-263/186

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp B; Encl., GC_{pi}=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-14 to 1-7-2, Exterior(2N) 1-7-2 to 6-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 6, 2, 7, 8.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

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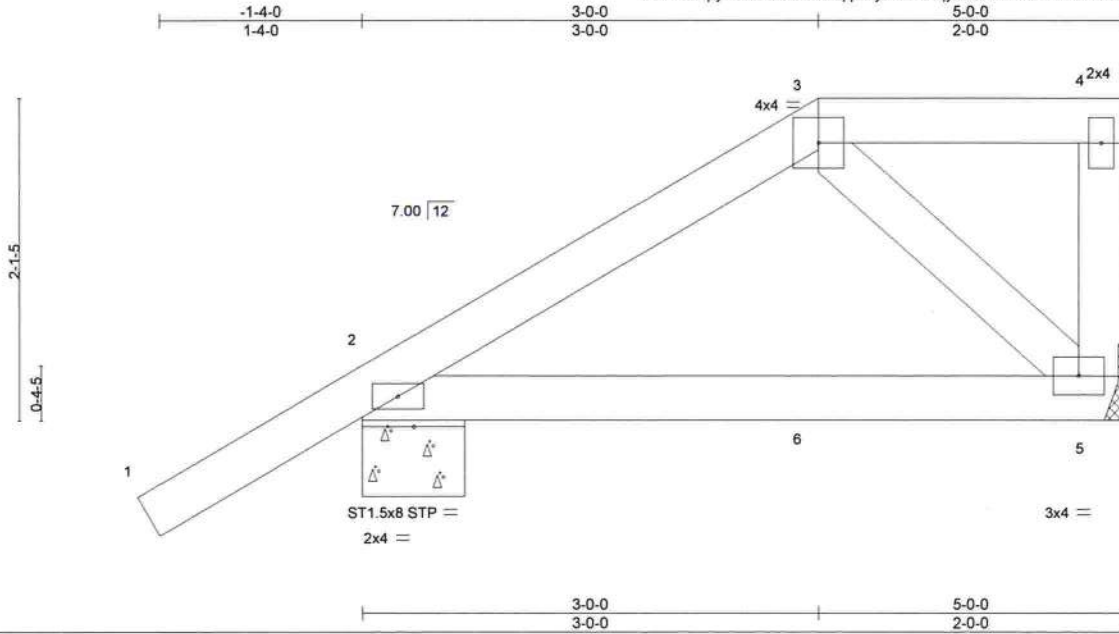
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss G6G	Truss Type Half Hip Girder	Qty 2	Ply 1	Job Reference (optional)	T24733625
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:26 2021 Page 1

ID:XJKHpyKrMOkGaZufSxqpWyxYl1-9zqyaL?UhTiD2MA1GT16Nv1Z2DG8hYdnM9jyl?ywQRd



Scale = 1:14.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.37	Vert(LL) -0.03 2-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) -0.06 2-5 >843 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 5 n/a n/a	Weight: 24 lb	FT = 20%
	Code FBC2020/TPI2014				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-8-0
Max Horz 2=86(LC 8)
Max Uplift 5=-49(LC 5), 2=-104(LC 8)
Max Grav 5=185(LC 1), 2=412(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; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) 5 except (jt=lb) 2=104.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb up at 3-0-0 on top chord, and 34 lb down at 3-0-0 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: 1-3=-90, 3-4=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 3=73(B) 6=-17(B)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss J1H	Truss Type JACK-OPEN	Qty 2	Ply 1	T24733626
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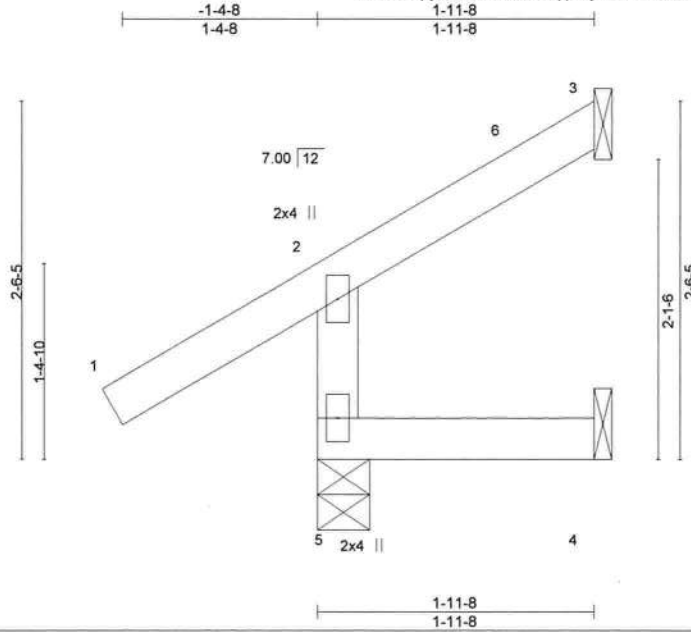
Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:27 2021 Page 1

ID: XJKHpyKRMokGaZufSxqtpWyxY11-dAOKnh06Snq4gVMEqBYLw6ZkvdgaQ?AwbpTVIRywQRc

Job Reference (optional)



Scale = 1:15.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.00 5	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.00 5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-R					Weight: 10 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=97(LC 12)
 Max Uplift 5=-39(LC 12), 3=-25(LC 12), 4=-14(LC 12)
 Max Grav 5=306(LC 1), 3=40(LC 17), 4=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-275/143

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-5-6 to 1-6-10, Interior(1) 1-6-10 to 1-11-6 zone; cantilever left and right exposed ; 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) 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) 5, 3, 4.



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

July 20,2021

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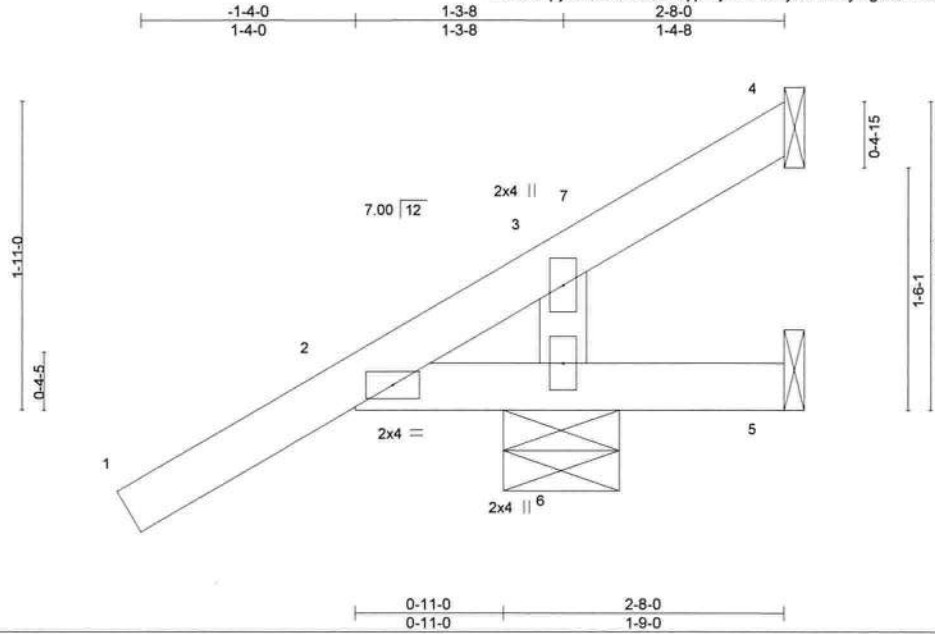
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 Tampa, FL 33610

Job 1459442	Truss J2C	Truss Type Jack-Open Structural Gable	Qty 2	Ply 1	T24733627
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:28 2021 Page 1

ID: XJKHpyKrMOKGaZufSxtpWyxY11-5Myi?11ID5yXlgKQNu3aSK6vz1yO9Sd4qTC2qtywQRb



Scale = 1:13.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	0.00 5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	0.00 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.03 4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 12 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-8-11
 Max Horz 6=79(LC 12)
 Max Uplift 4=-58(LC 1), 5=-132(LC 1), 6=-177(LC 12)
 Max Grav 4=17(LC 12), 5=54(LC 12), 6=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-284/169

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-7-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 studs spaced at 2-0-0 oc.
 - 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) 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 except (jt=lb) 5=132, 6=177.



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 Date:

July 20,2021

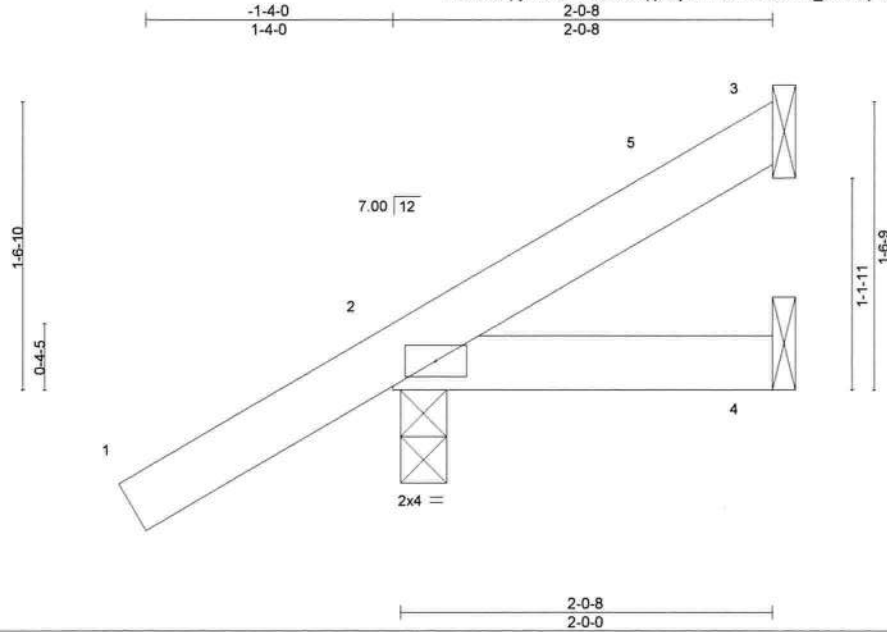
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 Tampa, FL 33610

Job 1459442	Truss J2E	Truss Type Jack-Open	Qty 6	Ply 1	Job Reference (optional)	T24733628
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:29 2021 Page 1
 ID:XJKHpyKrMOKGaZufSxqtpWyxY11-ZYW4CM1N_O5ovqvcxcp?Xe5_RM?uvuD27ycMKyWQRa



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 0.22	Vert(LL)	-0.00 2	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 9 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
 Max Horz 2=68(LC 12)
 Max Uplift 3=-12(LC 9), 2=-83(LC 12)
 Max Grav 3=31(LC 17), 2=297(LC 1), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 1-11-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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 6904 Parke East Blvd, Tampa FL 33610
 Date: July 20,2021

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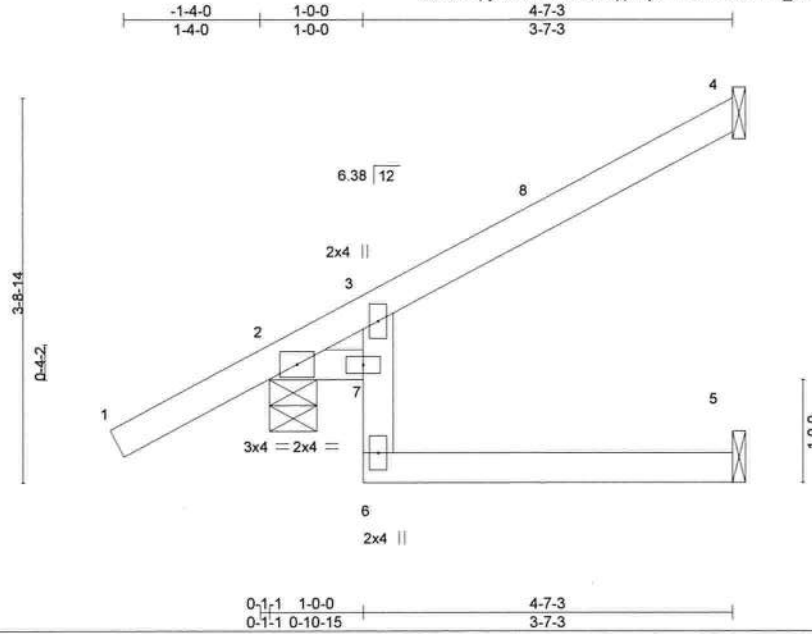
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 Tampa, FL 33610

Job 1459442	Truss J2W	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional)	T24733629
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:29 2021 Page 1

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Scale = 1:21.6

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.23	Vert(LL) -0.01 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.04 5-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.02 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical
 Max Horz 2=102(LC 12)
 Max Uplift 4=40(LC 12), 2=82(LC 12)
 Max Grav 4=151(LC 1), 2=419(LC 1), 5=77(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -1-4-13 to 2-10-1, Exterior(2R) 2-10-1 to 4-6-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



Joaquin Velez PE No.68182
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 Date: July 20,2021

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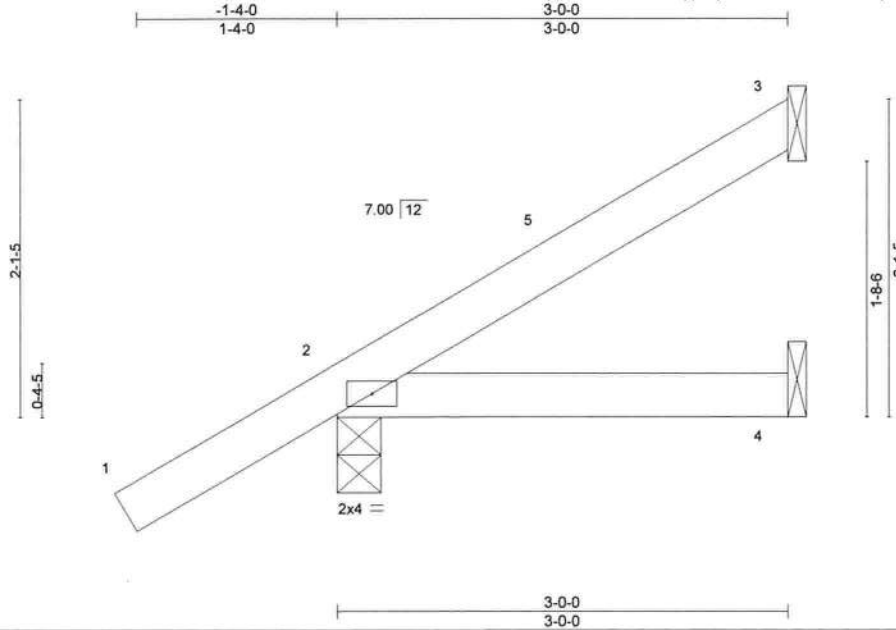
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 Tampa, FL 33610

Job 1459442	Truss J3	Truss Type Jack-Open	Qty 14	Ply 1	Job Reference (optional)	T24733630
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:30 2021 Page 1

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Scale = 1:14.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.09	Vert(LL) -0.00 2-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.01 2-4 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=84(LC 12)
Max Uplift 3=-25(LC 12), 2=-75(LC 12)
Max Grav 3=90(LC 17), 2=332(LC 1), 4=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



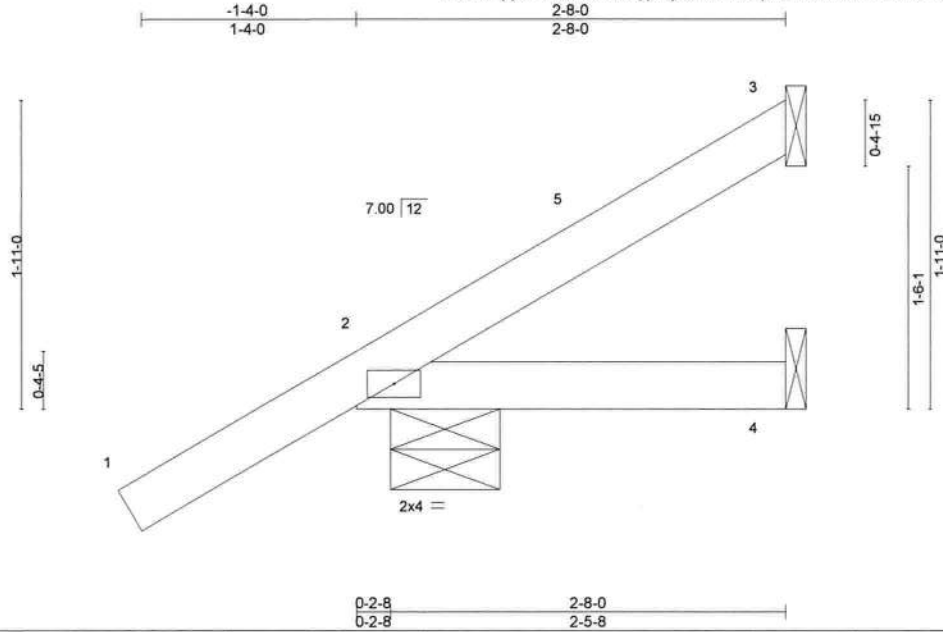
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6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss J3C	Truss Type Jack-Open Structural Gable	Qty 2	Ply 1	Job Reference (optional)	T24733631
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:32 2021 Page 1
 ID: XJKHpyKrMOKGaZufSxtpWyxY11-z7BDqO4FHJTMnHdBck7WdAGbCeOO5GQgl5AGzeywQRX



Scale = 1:13.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.00 2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-3, 4=Mechanical
 Max Horz 2=79(LC 12)
 Max Uplift 3=-18(LC 9), 2=-88(LC 12)
 Max Grav 3=47(LC 17), 2=342(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 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) 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) 3, 2.



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

July 20,2021

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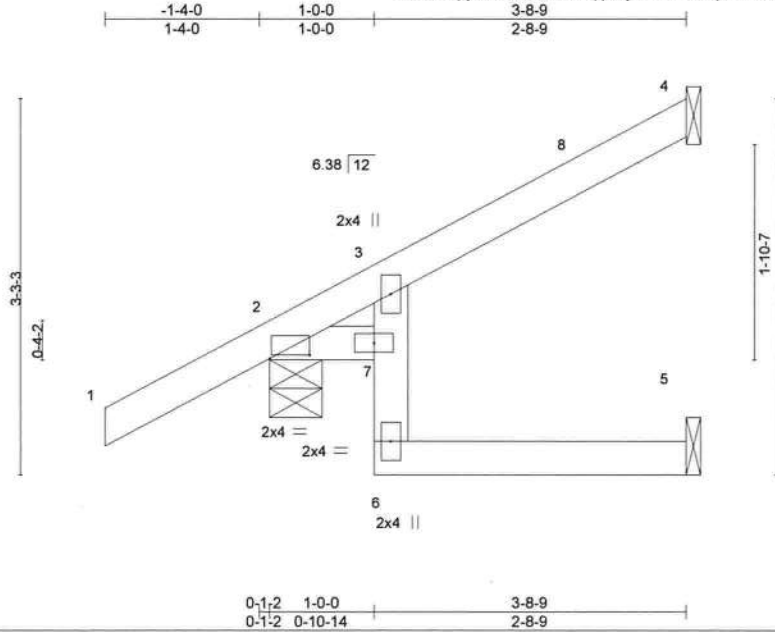
6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss J3W	Truss Type Jack-Open	Qty 2	Ply 1	T24733632
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:32 2021 Page 1

ID: XJKHpyKrfMokGaZufSxqtpWyxYI1-z7BDqO4FHJTMnHdBck7WdAGbfeM95GQgl5AGzeywQRX



Scale = 1:19.3

0-1-2 1-0-0 3-8-9
0-1-2 0-10-14 2-8-9

Plate Offsets (X,Y)-- [2-0-4-3-0-0-6]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL) -0.01 6 >999 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.14	Vert(CT) -0.01 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-R		Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical
Max Horz 2=87(LC 12)
Max Uplift 4=-28(LC 12), 2=-80(LC 12)
Max Grav 4=111(LC 17), 2=369(LC 1), 5=57(LC 3)

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

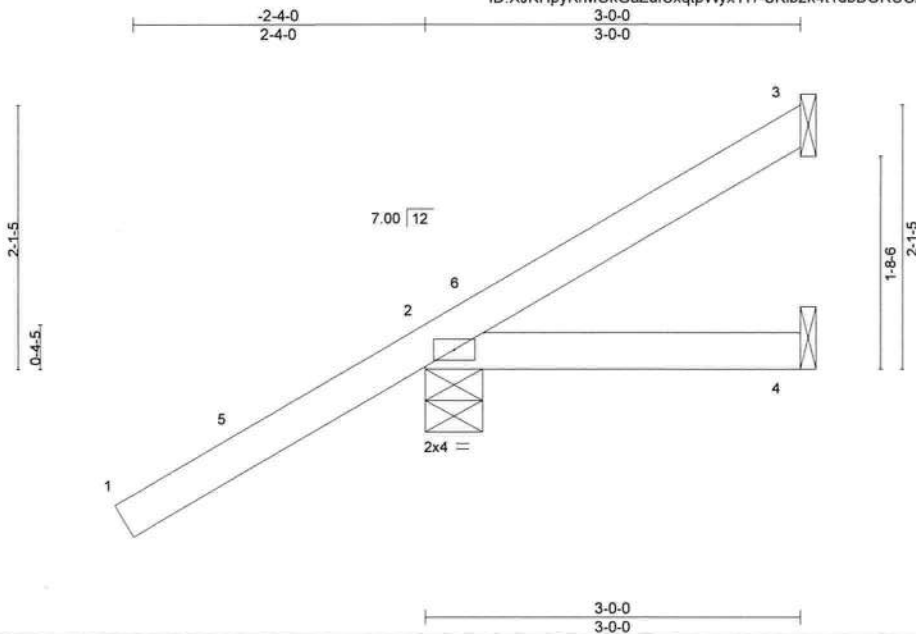
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Corner(3) -1-4-0 to 2-10-15, Exterior(2R) 2-10-15 to 3-7-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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Date: July 20,2021

Job 1459442	Truss J3X	Truss Type Jack-Open	Qty 5	Ply 1	T24733633
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:33 2021 Page 1
 ID: XJKHpyKrfMokGaZufSxqpWyxYI1-SKlb2k411dbDORCOARf9Npho2jDajgpzkwpV5ywQRW



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	-0.00 2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 14 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
 Max Horz 2=110(LC 12)
 Max Uplift 3=-14(LC 9), 2=-152(LC 12)
 Max Grav 3=21(LC 8), 2=502(LC 1), 4=54(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-4-14 to 0-7-2, Interior(1) 0-7-2 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=152.



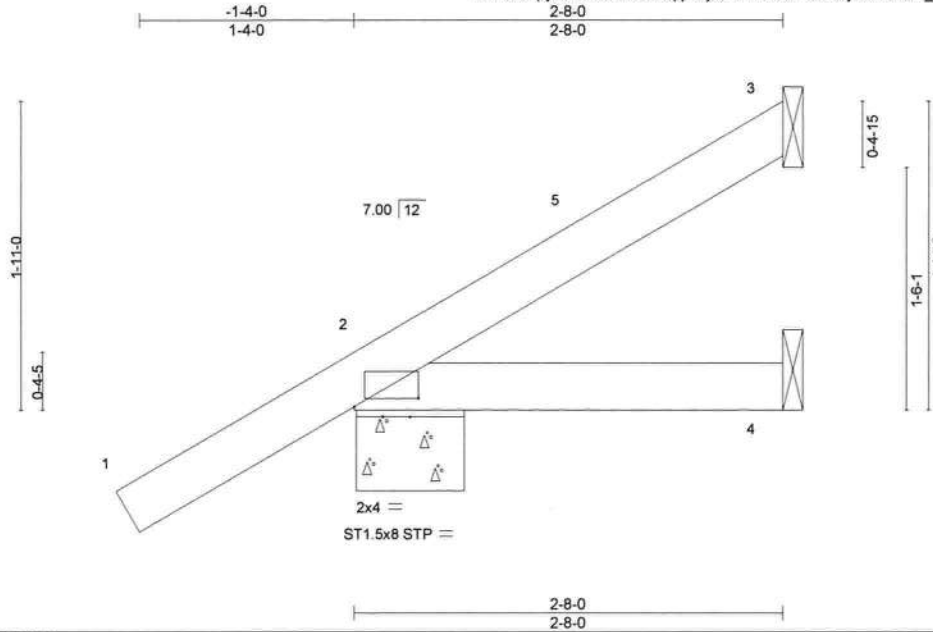
Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

Job 1459442	Truss J4C	Truss Type Jack-Open Structural Gable	Qty 1	Ply 1	Job Reference (optional)	T24733634
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:34 2021 Page 1

ID:XJKHpyKrMOKGaZufSxqpWyxYI1-wWJzF45Voxj4Obnak9A_ibMxhS4sZAvyCOIN2XywQRV



Scale = 1:13.8

Plate Offsets (X,Y)-- [2-0-4-12,0-0-10]		CSI.		DEFL.		PLATES		GRIP	
LOADING (psf)	SPACING-	2-0-0	TC	0.29	in (loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.25	BC	0.06	Vert(LL)	-0.00 2-4 >999	240		
TCDL 25.0	Lumber DOL	1.25	WB	0.00	Vert(CT)	-0.00 2-4 >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-P		Horz(CT)	-0.00 3 n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014						Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=79(LC 12)
Max Uplift 3=18(LC 9), 2=-88(LC 12)
Max Grav 3=47(LC 17), 2=342(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 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) 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) 3, 2.



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6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

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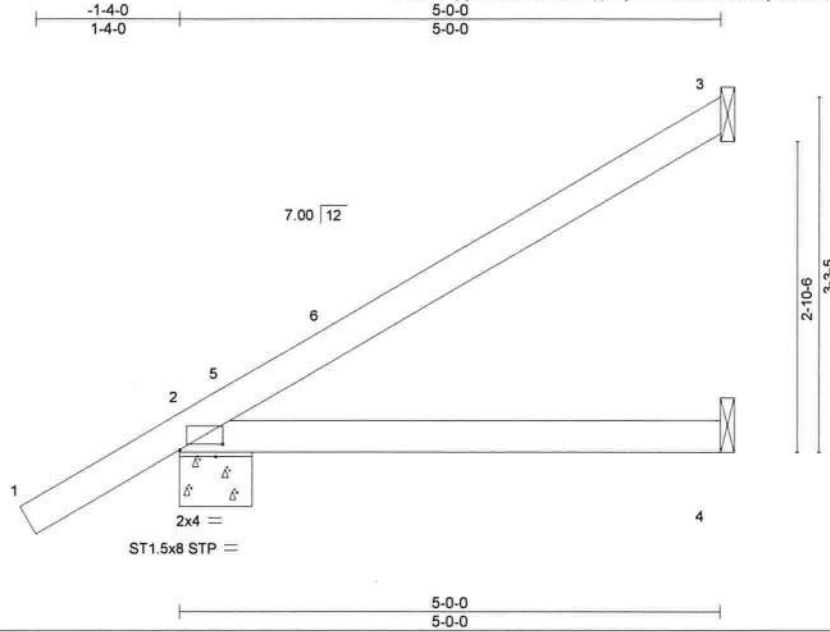


6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss J5	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional)	T24733635
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:34 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqlpWyxYl1-wWJzF45Voxj40bnak9A_ibMvbS0gZAvyCOFN2XyqQRV



Scale = 1:20.5

Plate Offsets (X,Y)--	[2:0-4-12,0-0-10]				
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 0.42	Vert(LL) -0.03 2-4 >999 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.26	Vert(CT) -0.05 2-4 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 3=59(LC 12), 2=76(LC 12)
Max Grav 3=181(LC 17), 2=439(LC 1), 4=92(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

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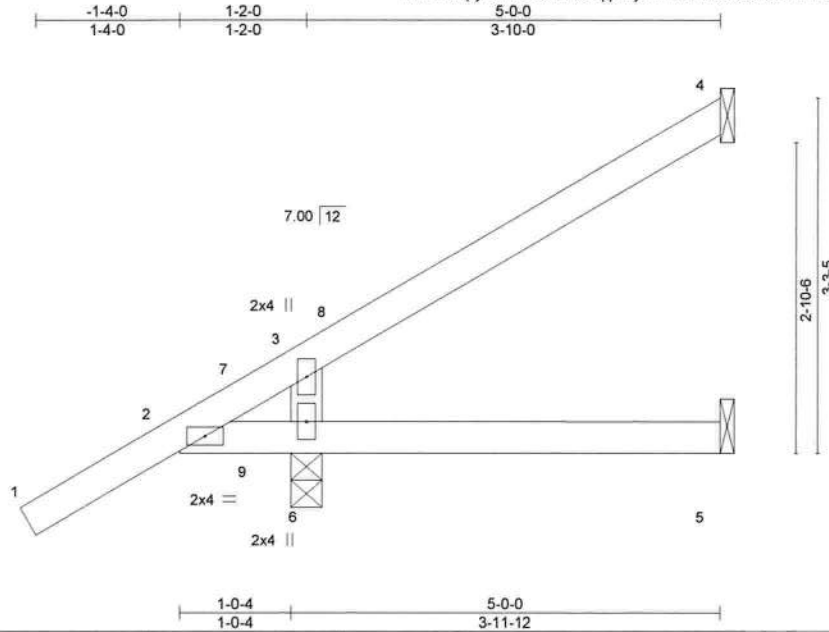
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Tampa, FL 33610

Job 1459442	Truss J5D	Truss Type Jack-Open	Qty 3	Ply 1	Job Reference (optional)	T24733636
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:35 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-OilLTQ68ZErxelMmIshDEou5?sNFic86R2PwazywQRU



Scale = 1:20.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	0.01 5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	0.01 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.03 4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 6=0-3-8
 Max Horz 6=118(LC 12)
 Max Uplift 4=-42(LC 12), 6=-110(LC 12)
 Max Grav 4=124(LC 17), 5=50(LC 3), 6=545(LC 1)

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

WEBS 3-6=-361/182

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-11-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=110.



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

July 20,2021

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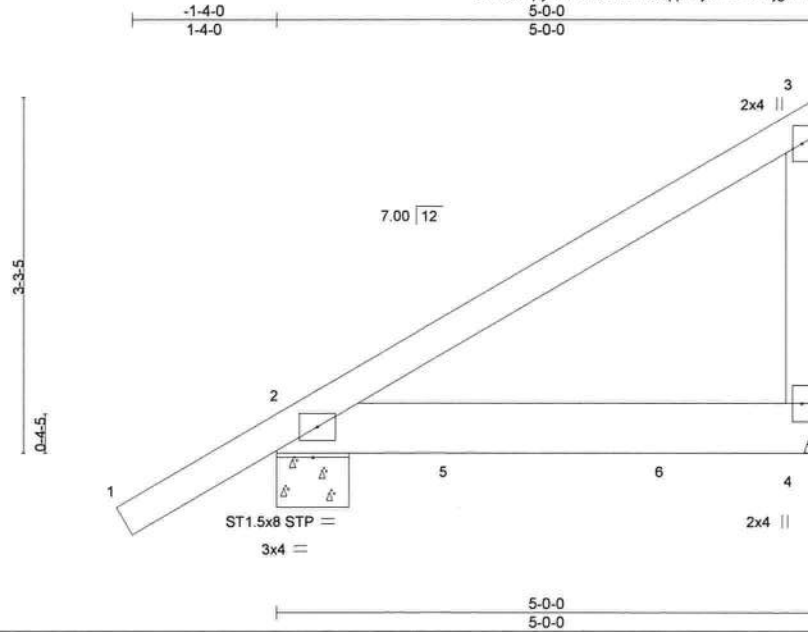
Job 1459442	Truss J5G	Truss Type Jack-Closed Girder	Qty 2	Ply 1	Job Reference (optional)	T24733637
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:36 2021 Page 1

ID: XJKHpyKrMokGaZufSxqpWyxYI1-svRjgm7mKYzoFuyraCSn0REVFd214PFfi8T6QywQRT



Scale = 1:20.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.04	2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.12	2-4	>454	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P							
									Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-8-0
 Max Horz 2=118(LC 8)
 Max Uplift 4=142(LC 8), 2=183(LC 8)
 Max Grav 4=1180(LC 1), 2=1389(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; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) except (jt=lb) 4=142, 2=183.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1018 lb down and 111 lb up at 1-8-0, and 897 lb down and 98 lb up at 3-8-0 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: 1-3=-90, 2-4=-20
 Concentrated Loads (lb)
 Vert: 5=-1018(F) 6=-897(F)



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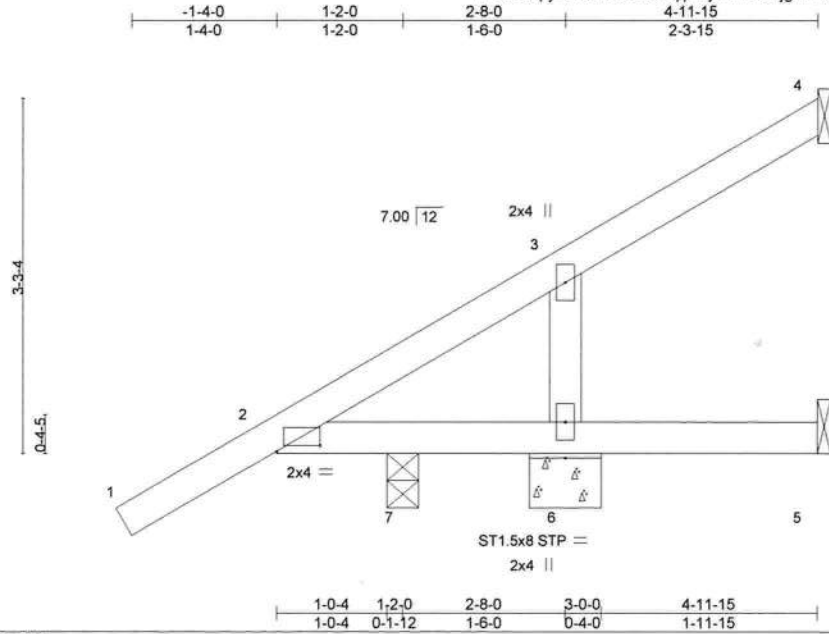
July 20,2021

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MiTek
 6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss J5M	Truss Type Monopitch	Qty 3	Ply 1	Job Reference (optional) T24733638
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:36 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtpWyY11-svRjgm7mKYzoFuxyraCSn0RIVFcn14UFri8T6QywQRT



Scale = 1:20.5

Plate Offsets (X,Y)--	[2:0-4-13,0-0-10]								
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 0.21	Vert(LL)	0.00	6-7	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.04	4	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 21 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 6=0-8-0, 7=0-3-8.
 (lb) - Max Horz 7=118(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 4, 6 except 7=112(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 4, 5, 6 except 7=511(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=291/199

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) - 1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-11-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6 except (jt=lb) 7=112.



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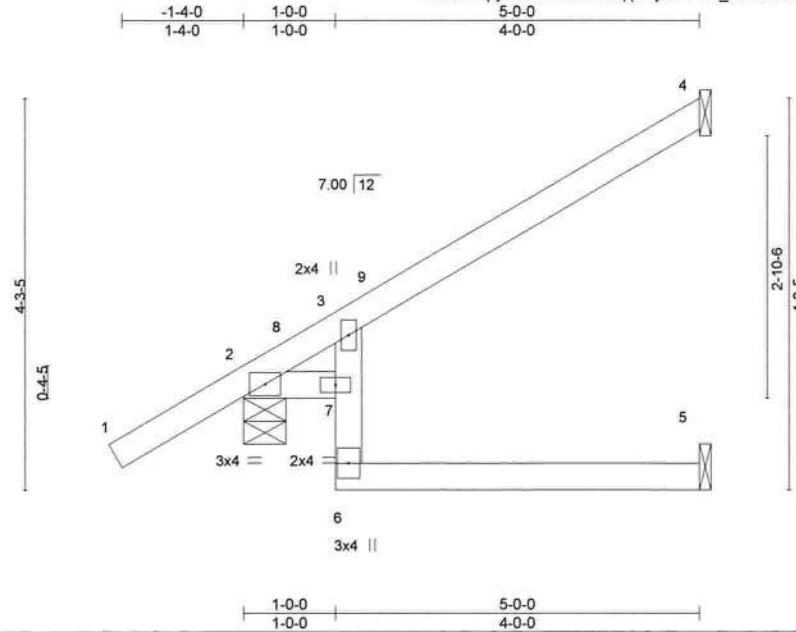
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 Tampa, FL 33610

Job 1459442	Truss J5W	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional)	T24733639
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:37 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyxY11-K5_6u58O5s5ft2W9PHjHD_QNF1SmXfPuMu1esywQRS



Scale = 1:24.3

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 0.39	Vert(LL)	-0.02 5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.32	Vert(CT)	-0.06 5-6	>965	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.04 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-R					Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 4=-51(LC 12), 2=-72(LC 12)
Max Grav 4=175(LC 17), 2=432(LC 1), 5=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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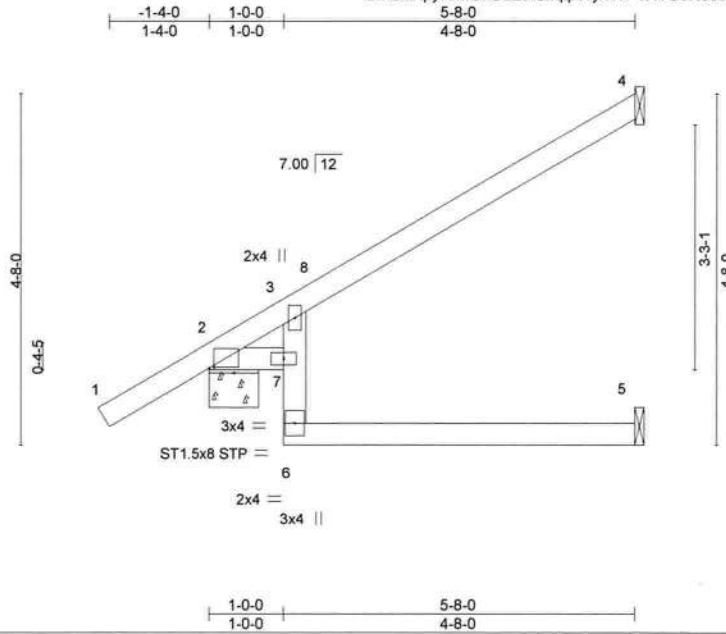
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Job 1459442	Truss J6	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T24733640
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:38 2021 Page 1
 ID: XJKHpyKrMOkGaZufSxqlpWyxY11-oHYU5R80s9DWWC5Lz?EwsRWZB3La_vY7odaBlywQRR



Scale = 1:29.6

Plate Offsets (X,Y)--	[2:0-0-12,0-0-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL) 0.04 5-6 >999 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.39	Vert(CT) -0.09 5-6 >708 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.05 5 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-R		Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
 Max Horz 2=129(LC 12)
 Max Uplift 4=60(LC 12), 2=75(LC 12)
 Max Grav 4=199(LC 17), 2=472(LC 1), 5=102(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 5-7-4 zone; cantilever left and right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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Job 1459442	Truss J7	Truss Type Jack-Open	Qty 15	Ply 1	Job Reference (optional)	T24733641
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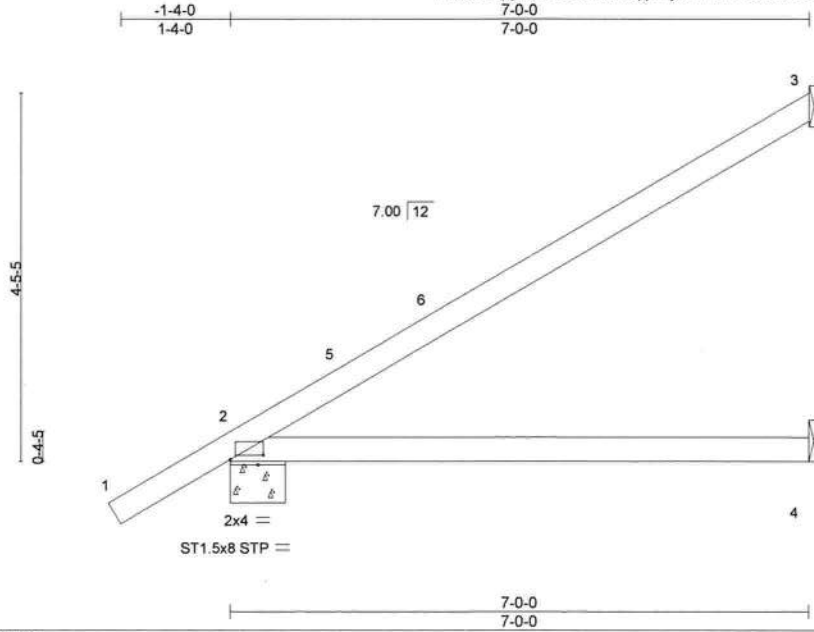


Plate Offsets (X,Y)-- [2:0-4-12,0:0-10]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.80	Vert(LL) -0.11 2-4 >695 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0.23 2-4 >347 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=152(LC 12)
 Max Uplift 3=-94(LC 12), 2=-74(LC 12)
 Max Grav 3=280(LC 17), 2=540(LC 1), 4=132(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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July 20,2021

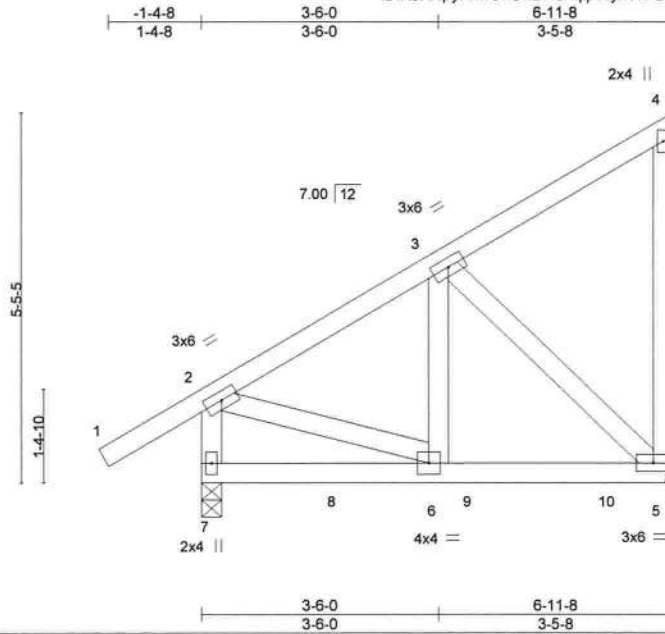
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Job 1459442	Truss J7G	Truss Type JACK-CLOSED GIRDER	Qty 1	Ply 1	Job Reference (optional) T24733642
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:41 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtpWyxY11-DsEcjTBu94b5Mgpwe7odU3882GLqIHm_p_sEndyWQRO



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 0.28	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.04	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.27	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P							
								Weight: 49 lb	FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=Mechanical
 Max Horz 5=179(LC 8)
 Max Uplift 7=-75(LC 8), 5=-156(LC 8)
 Max Grav 7=823(LC 1), 5=808(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-757/86, 2-3=-648/28
 BOT CHORD 5-6=0/490
 WEBS 2-6=0/519, 3-6=-51/488, 3-5=-673/134

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.. GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=156.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 202 lb down and 24 lb up at 2-0-4, and 289 lb down and 52 lb up at 4-0-4, and 267 lb down and 53 lb up at 6-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-90, 2-4=-90, 5-7=-20
 Concentrated Loads (lb)
 Vert: 8=-199(B) 9=-289(B) 10=-267(B)



Joaquin Velez PE No.68182
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July 20,2021

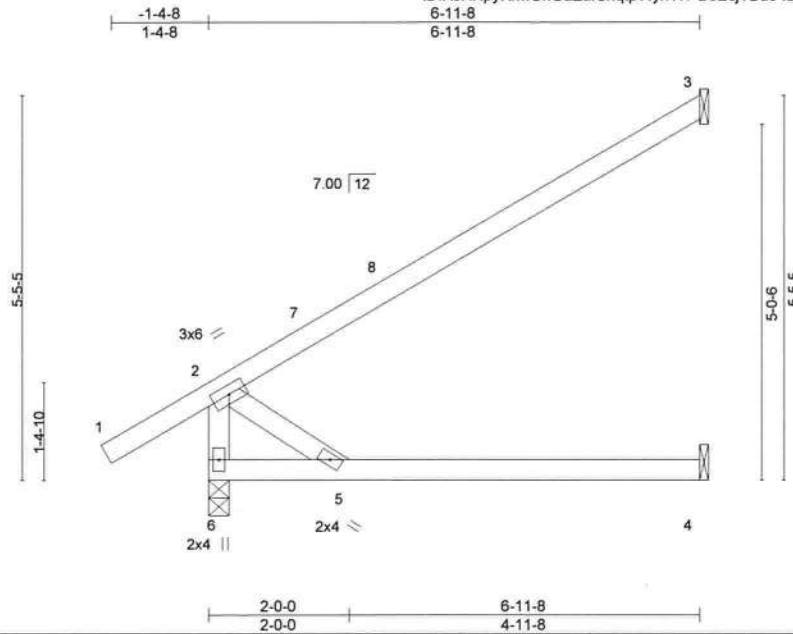
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 Tampa, FL 33610

Job 1459442	Truss J7H	Truss Type JACK-OPEN	Qty 8	Ply 1	Job Reference (optional) T24733643
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Scale = 1:31.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	-0.12	4-5	>651	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.25	4-5	>325	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.12	6	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 3=180(LC 12)
 Max Uplift 6=180(LC 12)
 Max Grav 6=539(LC 17), 3=287(LC 1), 4=135(LC 3)

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

TOP CHORD 2-6=-476/262

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-5-6 to 1-6-10, Interior(1) 1-6-10 to 6-10-12 zone; cantilever left and right exposed; 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) 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) except (jt=lb) 6=180.



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 Date:

July 20,2021

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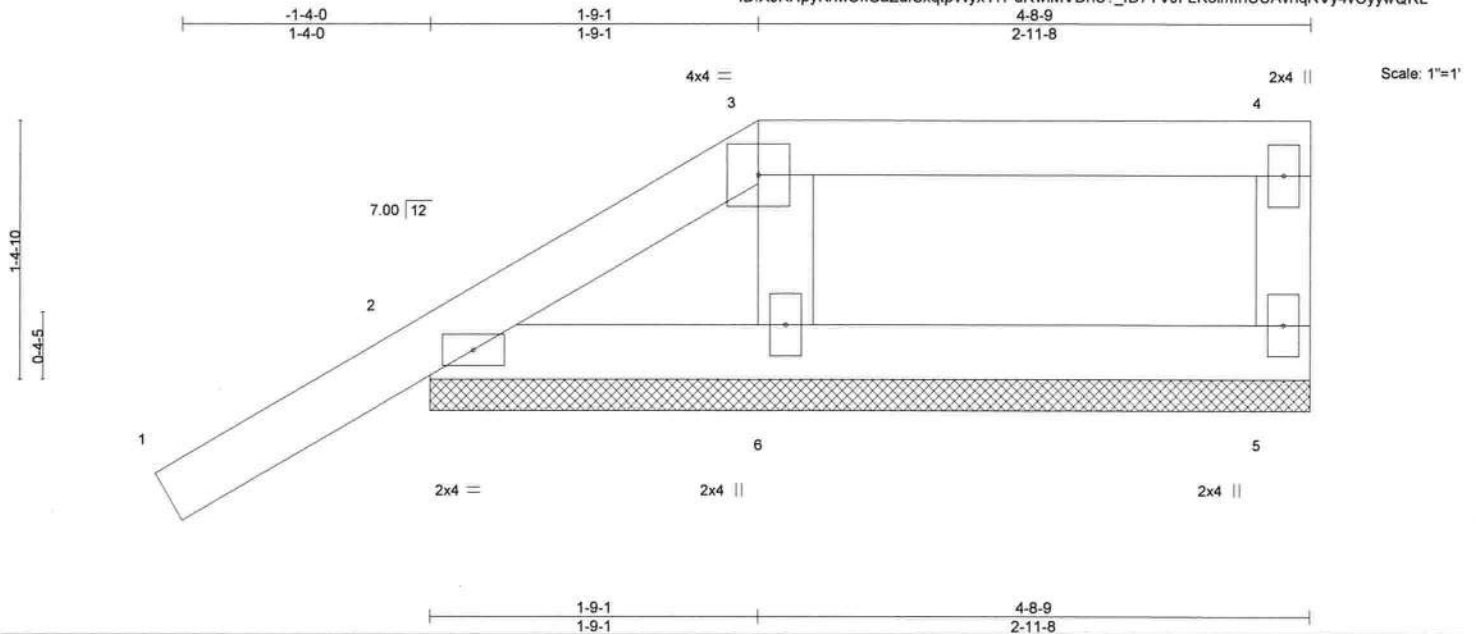


6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss J8X	Truss Type Half Hip Supported	Qty 1	Ply 1	Job Reference (optional) T24733644
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:44 2021 Page 1
ID:XJKHpyKrMOKGaZufSxqtpWyY11-dRwIMVdN5?_fD7YVJFLK6imfhUUAvhqRVy4vOyywQRL



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Vert(CT) -0.01 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=4-8-9, 2=4-8-9, 6=4-8-9
Max Horz 2=65(LC 12)
Max Uplift 5=-28(LC 8), 2=-82(LC 12), 6=-19(LC 9)
Max Grav 5=148(LC 1), 2=280(LC 1), 6=201(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=4.2psf; h=25ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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) 5, 2, 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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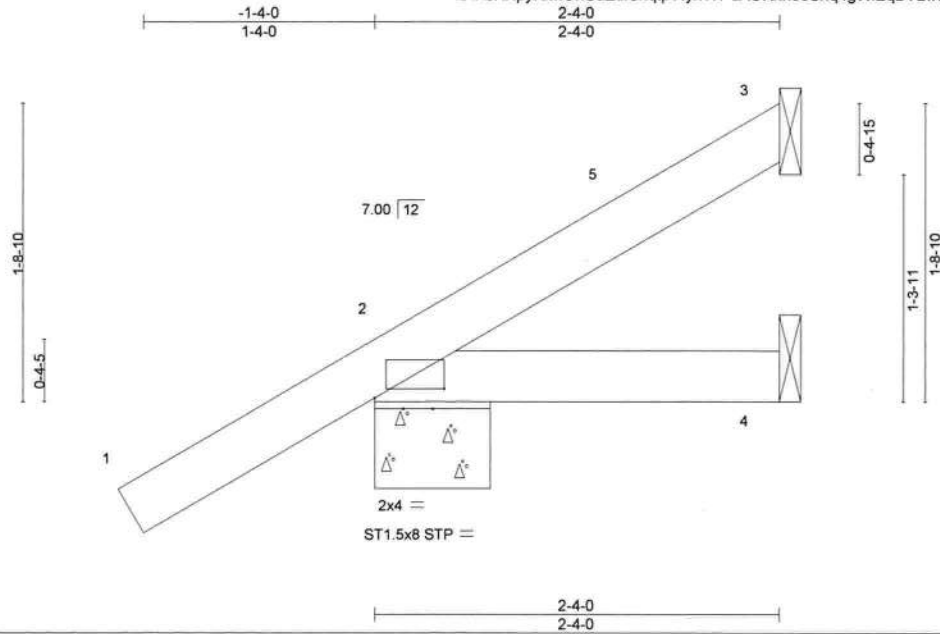
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Tampa, FL 36610

Job 1459442	Truss J24	Truss Type Jack-Open Structural Gable	Qty 1	Ply 1	Job Reference (optional) T24733645
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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ID: XJKHpyKrMOKGaZufSxqpWyxYI1-dAOKnh06Snq4gWIEqBYLw6ZkSdhUQ?AwbpTVIRywQRc



Scale = 1:12.8

Plate Offsets (X,Y)--	[2:0-4-13,0:0-10]				
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 0.29	Vert(LL) -0.00 2 >999 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.00 2-4 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 10 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=73(LC 12)
 Max Uplift 3=-14(LC 9), 2=-93(LC 12)
 Max Grav 3=23(LC 17), 2=334(LC 1), 4=39(LC 3)

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

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 2-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Job 1459442	Truss J31	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T24733646
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:31 2021 Page 1
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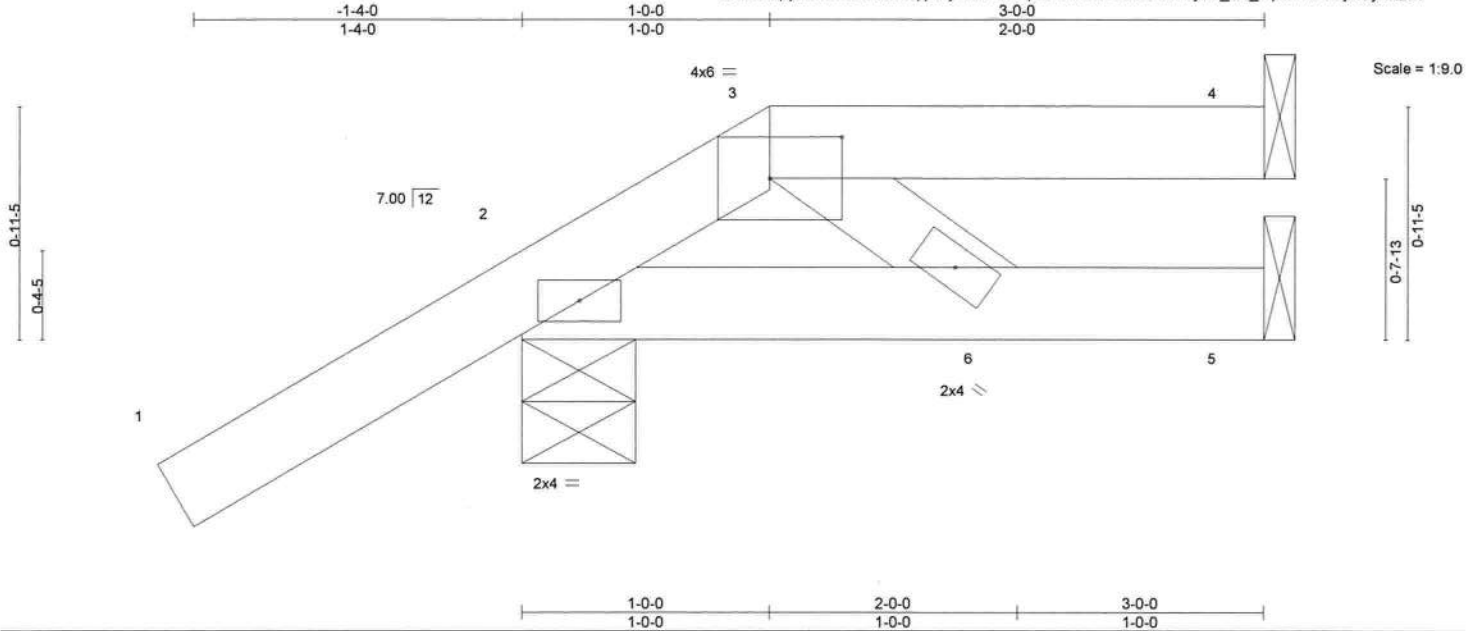


Plate Offsets (X,Y)--		[3:0-3-8,0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical
Max Horz 2=53(LC 12)
Max Uplift 4=-25(LC 8), 2=-94(LC 12)
Max Grav 4=87(LC 1), 2=341(LC 1), 5=49(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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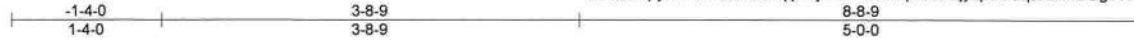
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Job 1459442	Truss J82	Truss Type Half Hip Girder	Qty 1	Ply 1	Job Reference (optional) T24733648
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:42 2021 Page 1

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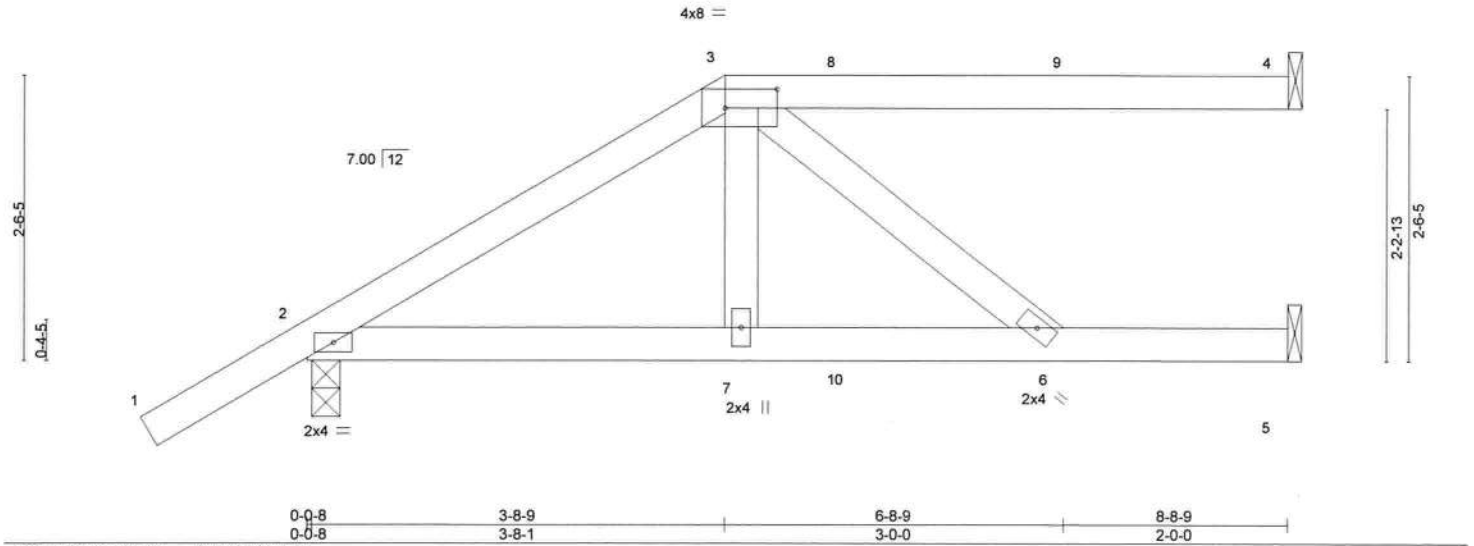


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	0.08	6-7	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.22	6-7	>457		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.07	4	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						
								Weight: 37 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3		

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 5=Mechanical
 Max Horz 2=98(LC 8)
 Max Uplift 4=-67(LC 4), 2=-119(LC 8), 5=-32(LC 5)
 Max Grav 4=222(LC 1), 2=616(LC 1), 5=254(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-627/82
 BOT CHORD 2-7=-86/448, 6-7=-87/466
 WEBS 3-7=-19/367, 3-6=-583/109

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=119.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb down and 29 lb up at 4-9-5, and 1 lb down and 29 lb up at 6-9-5 on top chord, and 20 lb up at 4-9-5, and 20 lb up at 6-9-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-90, 3-4=-90, 2-5=-20
 Concentrated Loads (lb)
 Vert: 6=4(F) 10=4(F)



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Job 1459442	Truss J83	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T24733649
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:43 2021 Page 1
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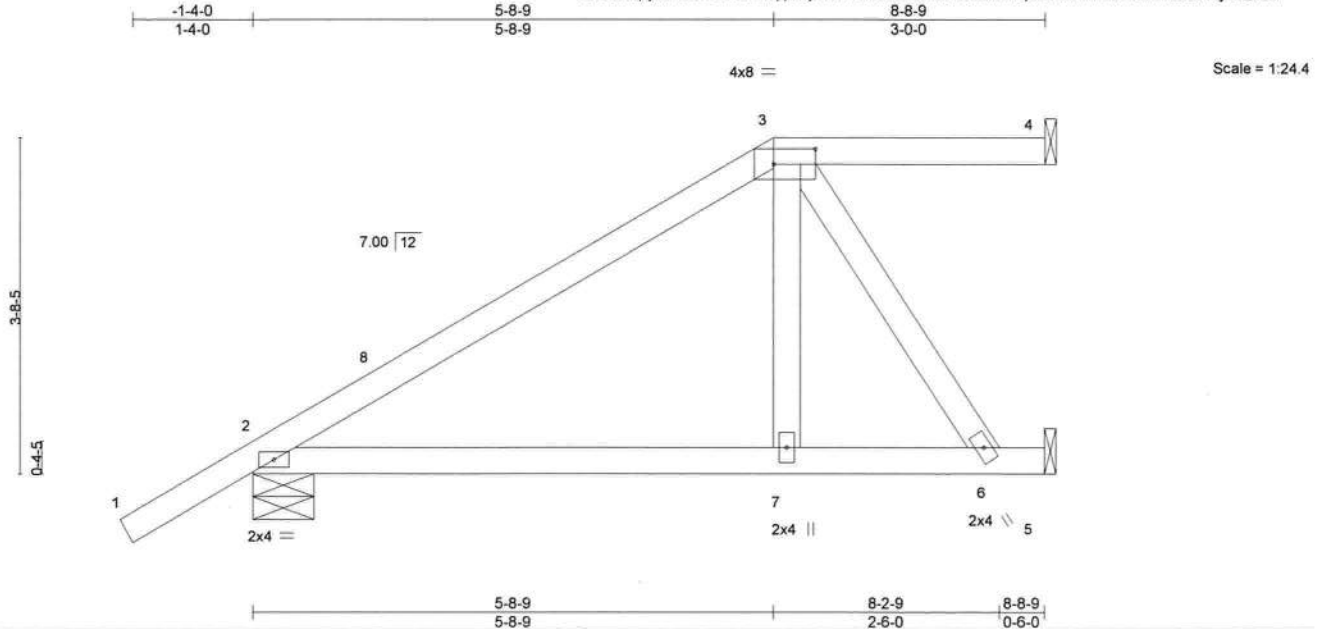


Plate Offsets (X,Y)--	[3:0-5-8,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	-0.03	2-7	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.06	2-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P							
									Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 5=132(LC 12)
Max Uplift 4=38(LC 8), 2=99(LC 12), 5=32(LC 12)
Max Grav 4=132(LC 1), 2=631(LC 1), 5=309(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=451/16
BOT CHORD 2-7=0/261, 6-7=0/269
WEBS 3-7=0/300, 3-6=463/121

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 5-8-9, Exterior(2E) 5-8-9 to 8-7-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



Joaquin Velez PE No.68182
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Tampa, FL 33610

Job 1459442	Truss J84	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T24733650
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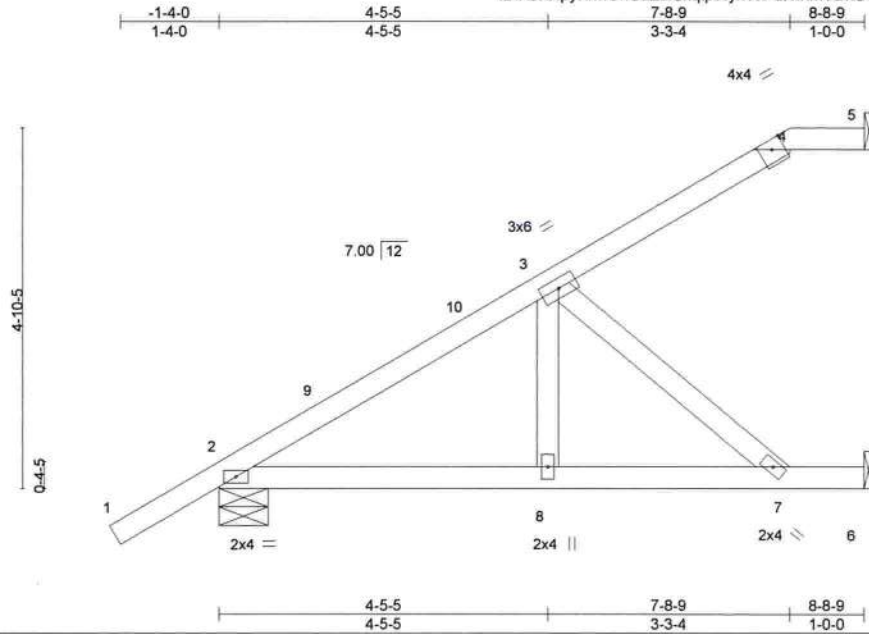


Plate Offsets (X,Y)--	[4:0-2-0,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.03	7-8	>999	240	MT20	244/190	
TCDL 25.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.11	7-8	>949	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.04	5	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 40 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 5=Mechanical, 2=0-8-0, 6=Mechanical
 Max Horz 6=166(LC 12)
 Max Uplift 5=-44(LC 12), 2=-83(LC 12), 6=-35(LC 12)
 Max Grav 5=157(LC 1), 2=631(LC 1), 6=287(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-595/29
 BOT CHORD 2-8=0/418, 7-8=0/418
 WEBS 3-8=0/283, 3-7=-546/192

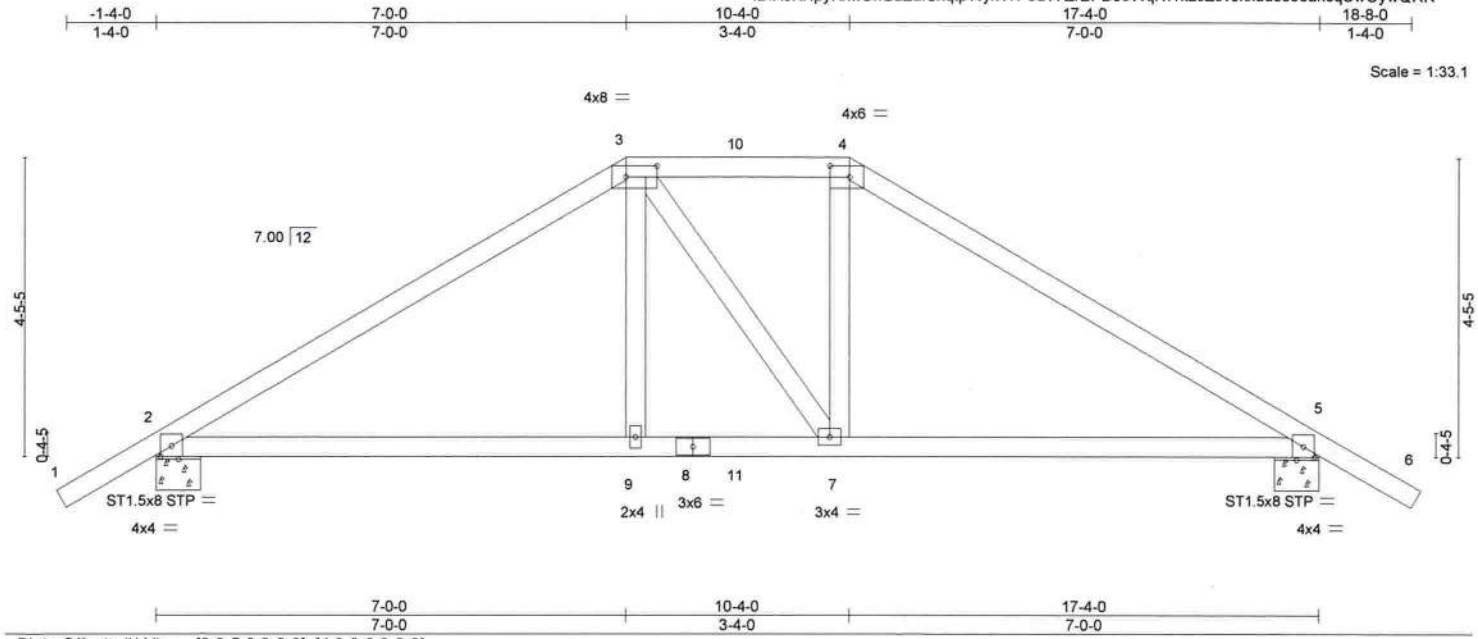
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 7-8-9, Exterior(2E) 7-8-9 to 8-7-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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 Date: July 20,2021

Job 1459442	Truss K1	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T24733651
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:45 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqpwYxYI1-5d7ZrEPDJ6WqH7htzsZevJkxudse50akcqSwOywwQRK



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.86	Vert(LL) -0.07 2-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.23	Vert(CT) -0.20 2-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.06 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 78 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31 *Except*
3-4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 5=0-8-0
Max Horz 2=-98(LC 6)
Max Uplift 2=-339(LC 8), 5=-339(LC 8)
Max Grav 2=1822(LC 1), 5=1822(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2655/462, 3-4=-2135/434, 4-5=-2656/462
BOT CHORD 2-9=-307/2117, 7-9=-306/2133, 5-7=-287/2118
WEBS 3-9=0/609, 4-7=-0/611

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=339, 5=339.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 352 lb down and 232 lb up at 7-0-0, and 187 lb down and 121 lb up at 8-8-0, and 352 lb down and 232 lb up at 10-4-0 on top chord, and 349 lb down and 62 lb up at 7-0-0, and 92 lb down at 8-8-0, and 349 lb down and 62 lb up at 10-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

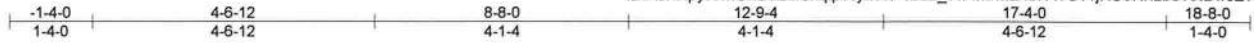
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-6=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-305(B) 4=-305(B) 9=-328(B) 7=-328(B) 10=-187(B) 11=-46(B)



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Date: July 20, 2021

Job 1459442	Truss K2	Truss Type Common	Qty 2	Ply 1	Job Reference (optional)	T24733652
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:47 2021 Page 1
 ID: XJKHpyKrMOKGaZufSxqtpWyxY11-10bu_WFfkWME4bH4?Ov1jKO9HhLb6?etBwJZ?HywQRI



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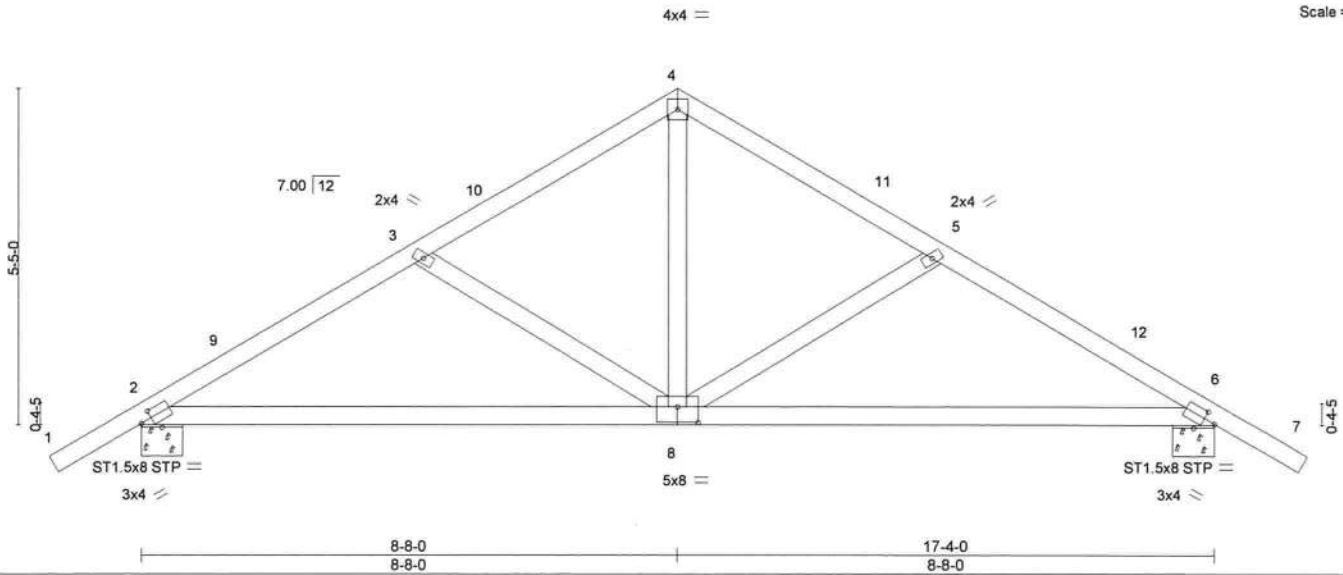


Plate Offsets (X,Y)--	[2:0-2-3,0-1-8], [6:0-2-3,0-1-8], [8:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.09 6-8 >999 240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.20 6-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.03 6 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 82 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 6=0-8-0
 Max Horz 2=118(LC 11)
 Max Uplift 2=-161(LC 12), 6=-161(LC 12)
 Max Grav 2=1073(LC 1), 6=1073(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1340/180, 3-4=-986/147, 4-5=-986/147, 5-6=-1340/180
 BOT CHORD 2-8=-76/1053, 6-8=-87/1053
 WEBS 4-8=-42/586, 5-8=-356/126, 3-8=-356/126

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 8-8-0, Exterior(2R) 8-8-0 to 11-8-0, Interior(1) 11-8-0 to 18-8-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) except (jt=lb) 2=161, 6=161.



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 Date:

July 20,2021

Job 1459442	Truss K3G	Truss Type Common Girder	Qty 1	Ply 2	Job Reference (optional) T24733653
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8:430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:48 2021 Page 1

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4x4 ||

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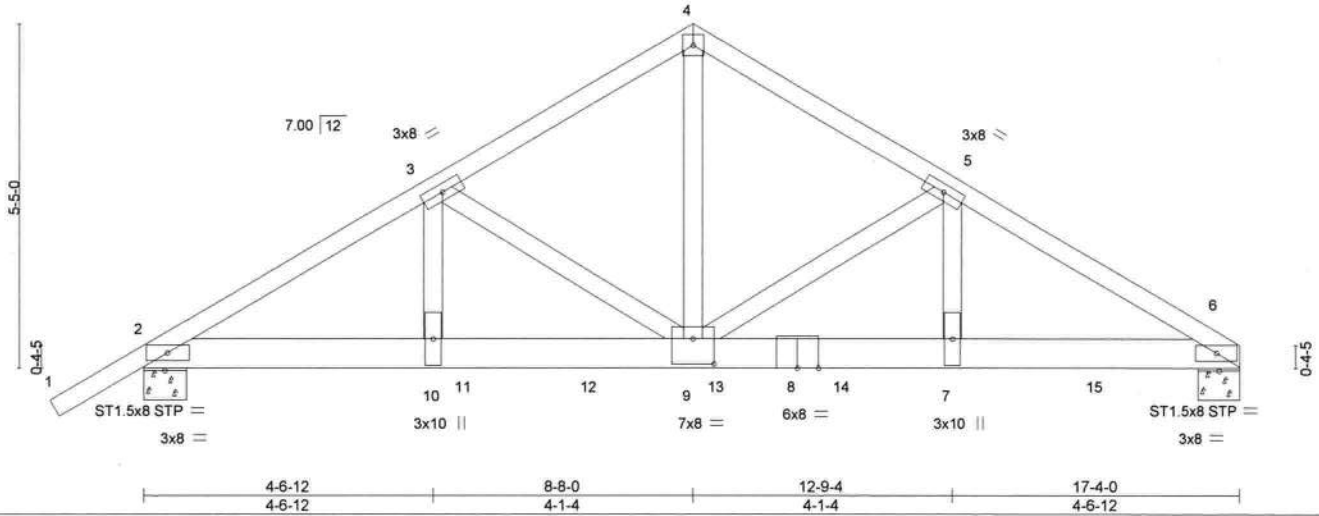


Plate Offsets (X,Y)-- [9:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.41	Vert(LL) -0.06 7-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.16 7-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.04 6 n/a n/a		
	Code FBC2020/TPI2014			Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 2=0-8-0
Max Horz 2=113(LC 7)
Max Uplift 6=570(LC 8), 2=498(LC 8)
Max Grav 6=4999(LC 1), 2=3643(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6223/769, 3-4=-5242/663, 4-5=-5244/664, 5-6=-8045/932
BOT CHORD 2-10=-606/5198, 9-10=-606/5198, 7-9=-748/6778, 6-7=-748/6778
WEBS 4-9=-582/4817, 5-9=-2780/349, 5-7=-253/2705, 3-9=-903/181, 3-10=-97/762

NOTES-

- 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=570, 2=498.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 607 lb down and 129 lb up at 5-0-12, 1023 lb down and 150 lb up at 7-0-12, 1273 lb down and 147 lb up at 9-0-12, 1267 lb down and 151 lb up at 11-0-12, and 1244 lb down and 152 lb up at 13-0-12, and 1239 lb down and 146 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2



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Date:

July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	K3G	Common Girder	1	2	T24733653

Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:48 2021 Page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 2-6=-20

Concentrated Loads (lb)

Vert: 7=-1244(F) 11=-607(F) 12=-1023(F) 13=-1273(F) 14=-1267(F) 15=-1239(F)

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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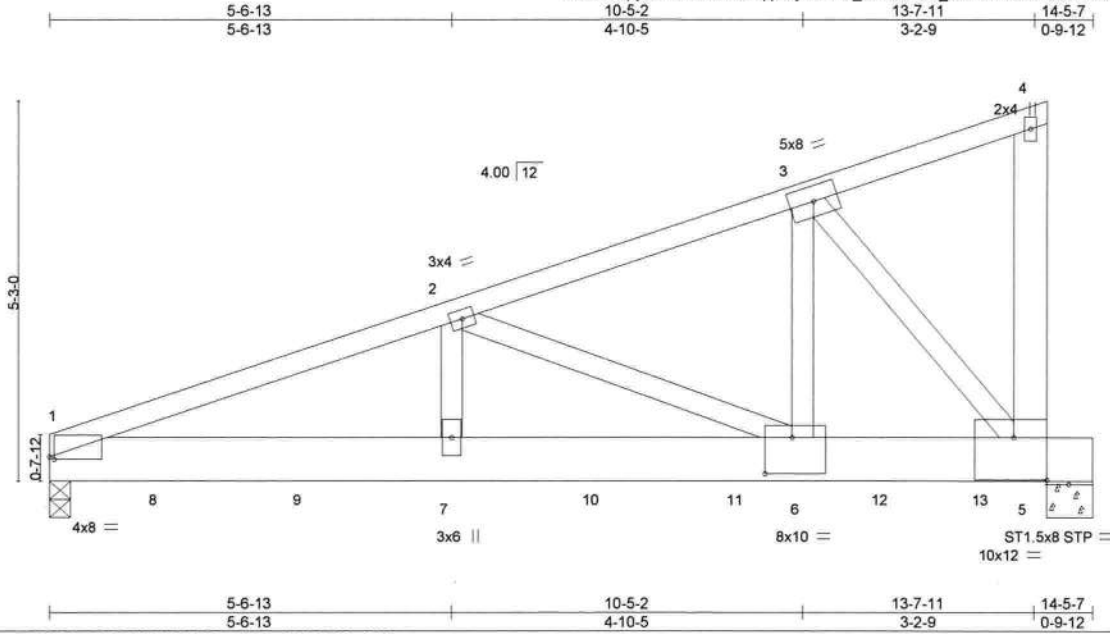
6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss L1G	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional) T24733654
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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Scale = 1:30.7

Plate Offsets (X,Y)-- [1:0-0-13,0-0-6], [5:0-5-8,0-7-0], [6:0-4-8,0-6-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	-0.04	6-7	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.10	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 292 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-5: 2x6 SP No.2

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

REACTIONS. (size) 1=0-3-8, 5=0-7-11
Max Horz 1=136(LC 21)
Max Uplift 1=-461(LC 8), 5=-1445(LC 8)
Max Grav 1=2954(LC 1), 5=10109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6908/1157, 2-3=-5617/996
BOT CHORD 1-7=-1180/6380, 6-7=-1180/6380, 5-6=-991/5261
WEBS 2-7=-67/706, 2-6=-1215/205, 3-6=-1380/7478, 3-5=-8065/1520

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
1=461, 5=1445.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down and 27 lb up at 1-6-8, 186 lb down and 28 lb up at 3-6-8, 236 lb down and 31 lb up at 5-6-8, 229 lb down and 99 lb up at 7-6-8, 1788 lb down and 222 lb up at 9-6-8, 2920 lb down and 947 lb up at 10-5-4, and 1895 lb down and 224 lb up at 11-6-8, and 4324 lb down and 259 lb up at 12-11-4 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



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Date:

July 20,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss L1G	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional) T24733654
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Builders FirstSource (Lady Lake, FL),

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-90, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-201(B) 6=-2920(F) 8=-185(B) 9=-186(B) 10=-193(B) 11=-1788(B) 12=-1787(B) 13=-4324(B)

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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Tampa, FL 36610

Job 1459442	Truss L2	Truss Type JACK-CLOSED	Qty 2	Ply 1	Job Reference (optional) T24733655
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8,430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:52 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyyxY11-O_On1EJoZT_XAM91nxUCQO5_ni8BnBpclC0KgUyWQRD

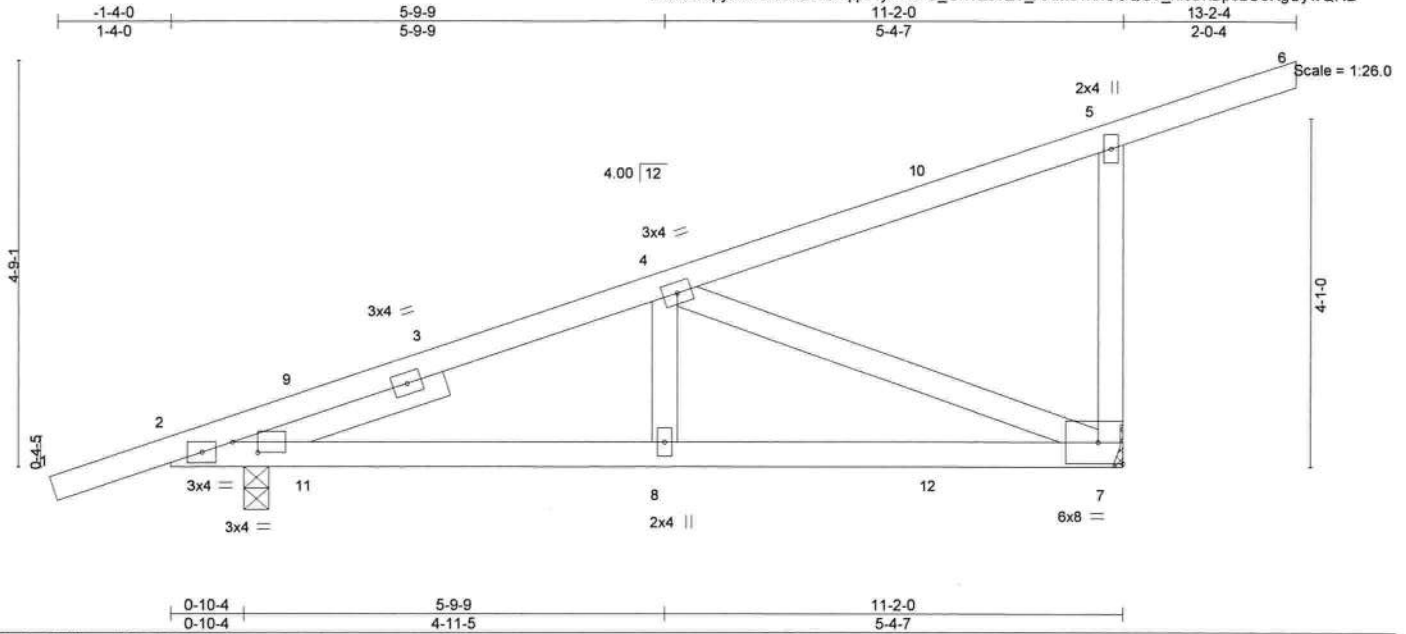


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.37	Vert(LL) 0.05 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.55	Vert(CT) -0.06 2-8 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-7-3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-14 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=157(LC 12)
Max Uplift 7=-284(LC 12), 2=-194(LC 12)
Max Grav 7=803(LC 1), 2=726(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-995/610, 5-7=-431/251
BOT CHORD 2-8=-738/860, 7-8=-738/860
WEBS 4-8=-304/242, 4-7=-915/777

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 13-2-4 zone; cantilever left and right exposed; 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) 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) except (jt=lb) 7=284, 2=194.



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

July 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5-19-2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

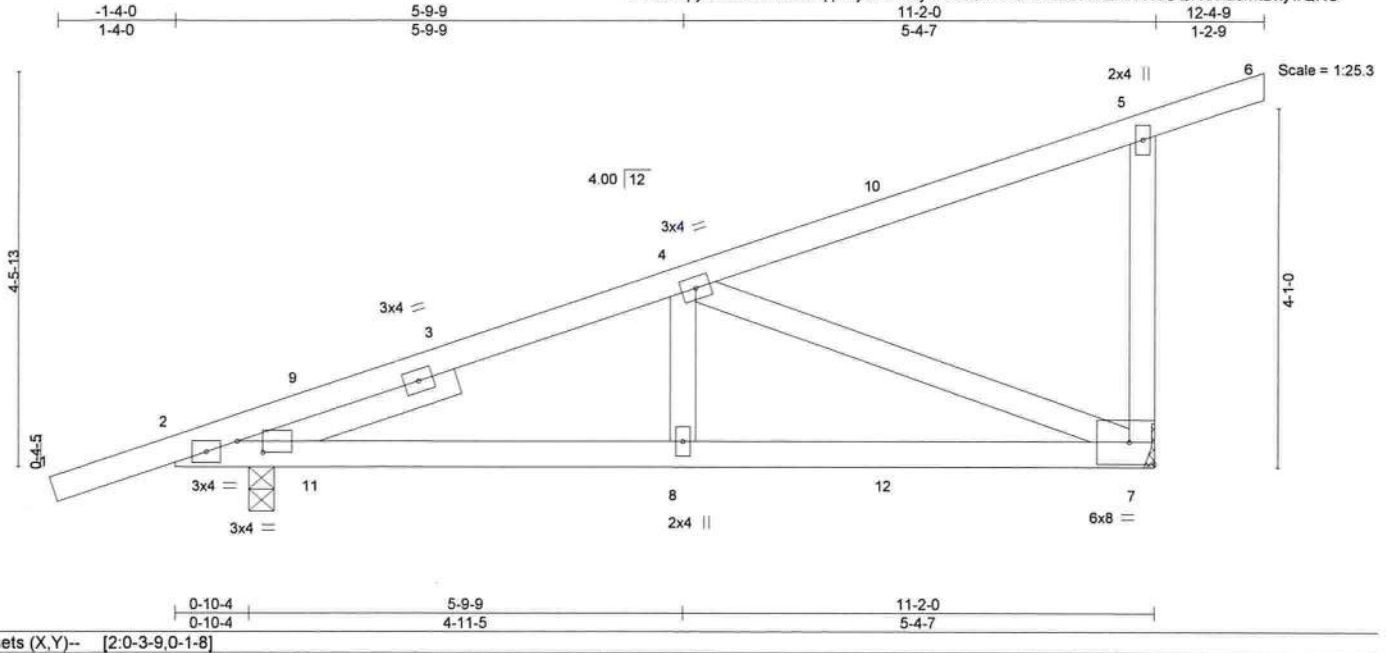


6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss L3	Truss Type JACK-CLOSED	Qty 2	Ply 1	Job Reference (optional) T24733656
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:53 2021 Page 1
ID:XJKHpyKrMokGaZufSxqtpWyxYI1-sAy9FaKQK6OoWkELe0Rzbe9W6UQWoolasmtDxywQRC



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.37	Vert(LL) 0.06 7-8 >999 240		
BCDL 0.0 *	Lumber DOL 1.25	WB 0.56	Vert(CT) -0.06 2-8 >999 180		
BCLL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 58 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-3-10 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 2-7-3	

REACTIONS. (size) 7=Mechanical, 2=0-3-8
 Max Horz 2=145(LC 12)
 Max Uplift 7=-246(LC 12), 2=-203(LC 12)
 Max Grav 7=718(LC 1), 2=737(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1036/672, 5-7=-336/203
 BOT CHORD 2-8=-789/901, 7-8=-789/901
 WEBS 4-8=-310/239, 4-7=-941/817

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpj=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 12-4-9 zone; cantilever left and right exposed; 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) 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) except (jt=lb) 7=246, 2=203.



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

July 20,2021

<p>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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 6904 Parke East Blvd. Tampa, FL 33610
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Job 1459442	Truss L4	Truss Type JACK-CLOSED	Qty 2	Ply 1	Job Reference (optional) T24733657
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:55 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxY11-oZ4vIFLgSOM51pucT32v20jV0w9u_YI21AF_HpywQRA

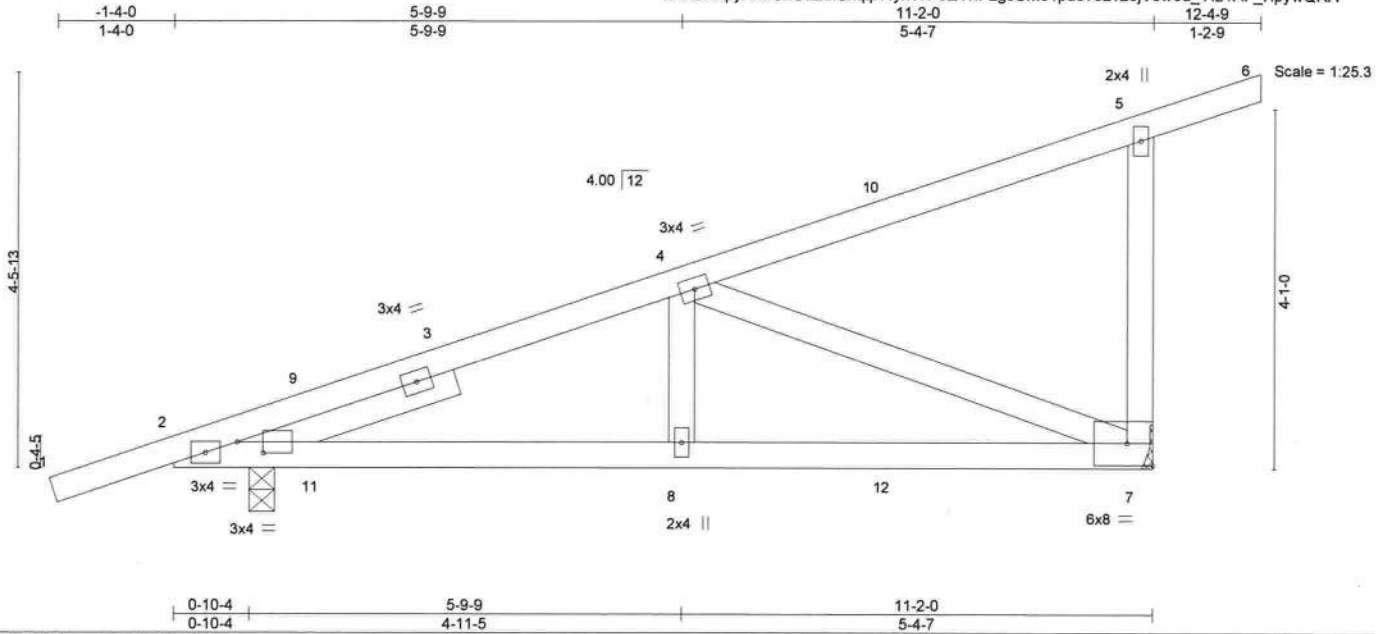


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.37	Vert(LL) 0.06 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Vert(CT) -0.06 2-8 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-7-3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-3-10 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=145(LC 12)
Max Uplift 7=-246(LC 12), 2=-203(LC 12)
Max Grav 7=718(LC 1), 2=737(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1036/672, 5-7=-336/203
BOT CHORD 2-8=-789/901, 7-8=-789/901
WEBS 4-8=-310/239, 4-7=-941/817

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 12-4-9 zone; cantilever left and right exposed; 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) 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) except (jt=lb) 7=246, 2=203.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

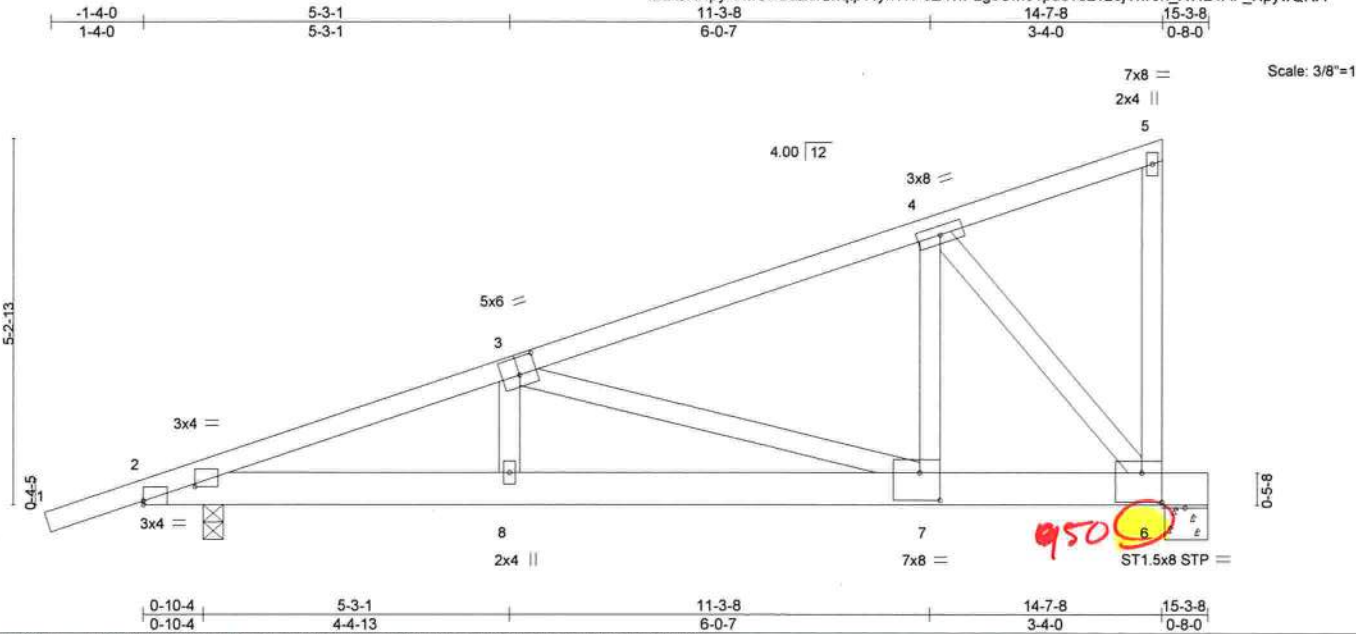


Job 1459442	Truss L5G	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	Job Reference (optional)	T24733658
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

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ID:XJKHpyKrMokGaZufSxqtpWyxY11-oZ4vFLgsOM51pucT32v20jTlw5h_XW21AF_HpywQRA



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.64	Vert(LL) 0.05 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.61	Vert(CT) -0.10 7-8 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH	Horz(CT) 0.02 6 n/a n/a	Weight: 180 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 6=0-7-8, 2=0-3-8
 Max Horz 2=160(LC 8)
 Max Uplift 6=950(LC 8), 2=463(LC 8)
 Max Grav 6=3020(LC 1), 2=1573(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3657/1018, 3-4=-2681/762
 BOT CHORD 2-8=-1071/3396, 7-8=-1068/3391, 6-7=-775/2463
 WEBS 3-7=-967/306, 4-7=-1039/3228, 4-6=-3783/1189

- NOTES-**
- 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, Except member 4-7 2x4 - 1 row at 0-5-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=950, 2=463.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2880 lb down and 932 lb up at 11-3-8 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: 1-5=-90, 2-6=-20



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

July 20,2021

Continued on page 2

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss L5G	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	Job Reference (optional) T24733658
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:55 2021 Page 2
ID:XJKHpyKrMOkGaZufSxqtPWyxY11-cZ4vFLgsOM51puct32v20jTlw5h_XW21AF_HpywQRA

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7--2880(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss L6	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Job Reference (optional) T24733659
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:56 2021 Page 1

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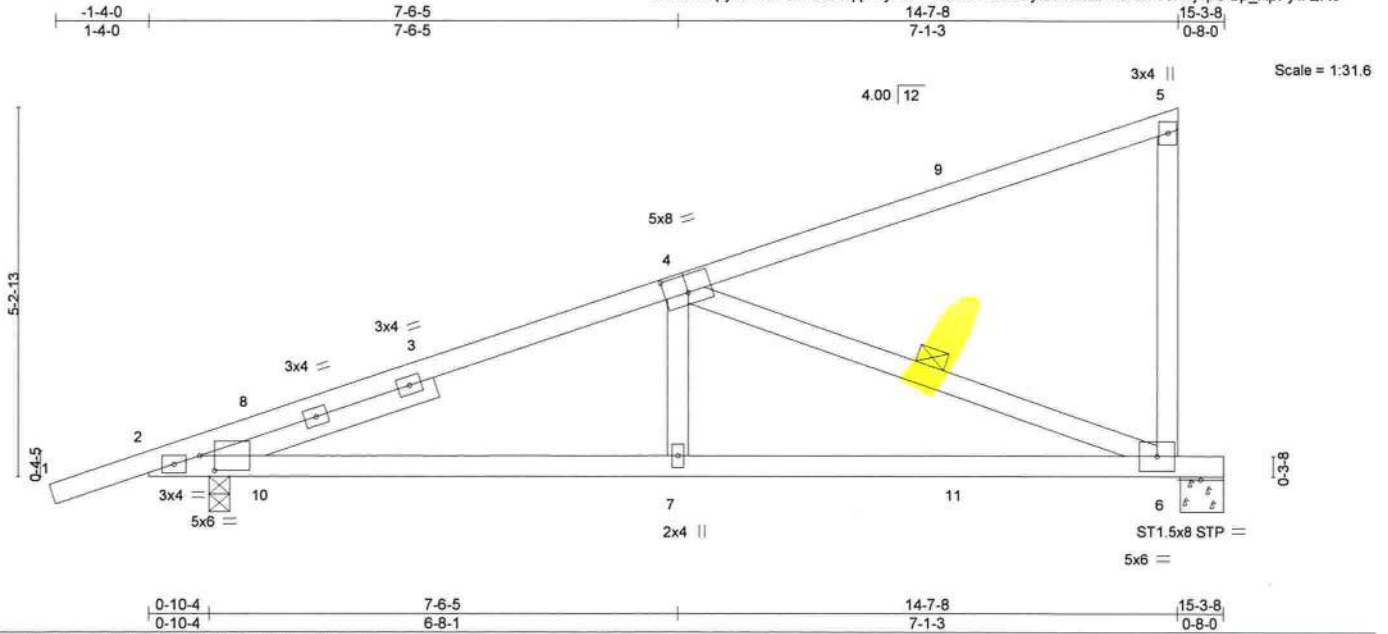


Plate Offsets (X,Y)--	[2:0-2-9,0-2-8], [4:0-4-0,0-3-0]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.63	Vert(LL) 0.14 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.42	Vert(CT) -0.16 2-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2020/TPI2014			Weight: 74 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-6
SLIDER Left 2x4 SP No.3 3-6-2	

REACTIONS. (size) 6=0-7-8, 2=0-3-8
 Max Horz 2=158(LC 12)
 Max Uplift 6=-250(LC 12), 2=-262(LC 12)
 Max Grav 6=781(LC 1), 2=933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1450/911, 5-6=-250/112
 BOT CHORD 2-7=-1003/1275, 6-7=-988/1269
 WEBS 4-7=-405/323, 4-6=-1325/1029

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 14-5-12 zone; cantilever left and right exposed; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=250, 2=262.



Joaquin Velez PE No.68182
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 Date:

July 20,2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss L7	Truss Type JACK-CLOSED STRUCTUR	Qty 1	Ply 1	Job Reference (optional) T24733660
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:57 2021 Page 1
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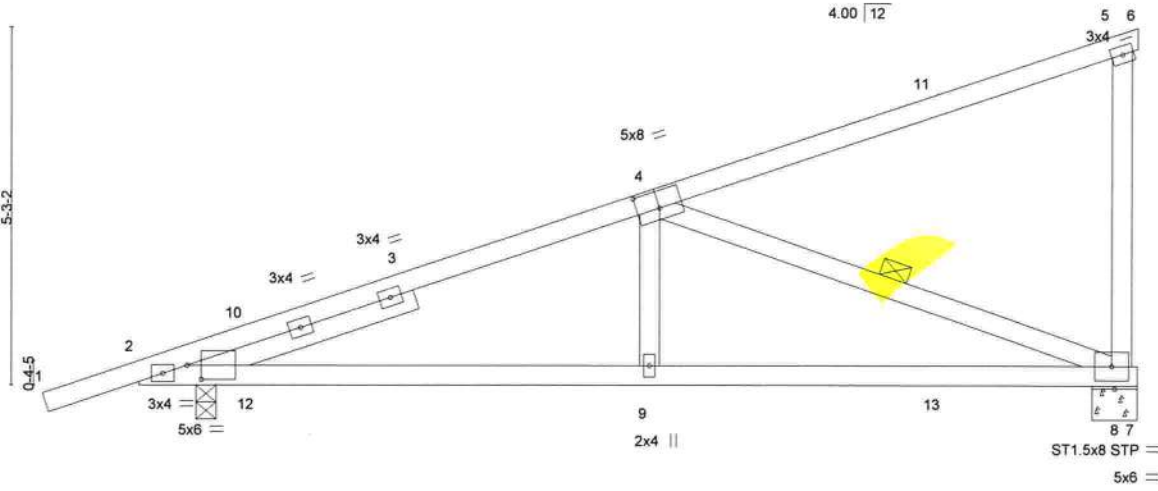


Plate Offsets (X,Y)--	[2:0-2-9,0-2-8], [4:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.62	Vert(LL) 0.14 2-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.41	Vert(CT) -0.16 2-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 73 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 3-6-2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-6-3 oc bracing.
 WEBS 1 Row at midpt 4-8

REACTIONS.

(size) 8=0-8-0, 2=0-3-8
 Max Horz 2=160(LC 12)
 Max Uplift 8=-252(LC 12), 2=-261(LC 12)
 Max Grav 8=797(LC 1), 2=933(LC 1)

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

TOP CHORD 2-4=-1444/900, 5-8=-265/120
 BOT CHORD 2-9=-995/1269, 8-9=-980/1263
 WEBS 4-9=-398/318, 4-8=-1306/1010

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 14-8-8 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=252, 2=261.



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



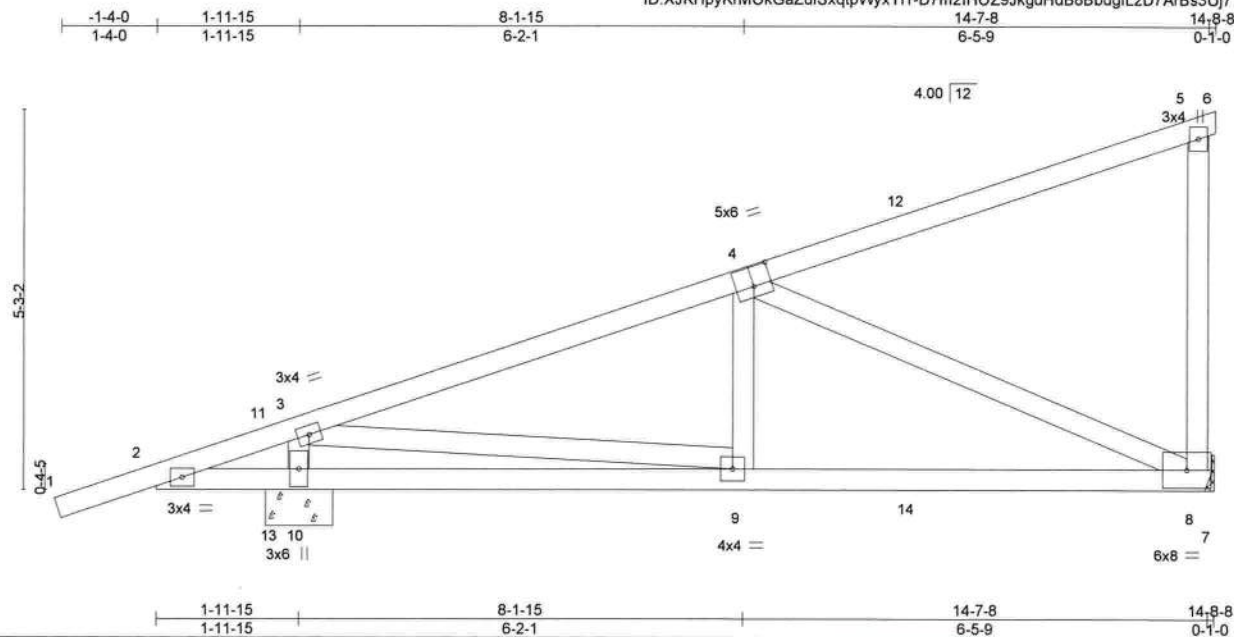
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 Tampa, FL 33610

Job 1459442	Truss L8	Truss Type JACK-CLOSED	Qty 1	Ply 1	Job Reference (optional) T24733661
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:58 2021 Page 1

ID:XJKHpyKrMokGaZufSxqtpWyY11-D7m2IH0Z9JkguHdB8BbdgflzD7ArBs3Uj7TeuBywQR7



Scale = 1:30.8

Plate Offsets (X,Y)-- [4:0-3-0,0-3-4]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.42	Vert(LL) 0.11 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.76	Vert(CT) -0.09 8-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) -0.01 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 77 lb	FT = 20%

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

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

REACTIONS. (size) 8=Mechanical, 10=0-11-5
 Max Horz 10=160(LC 12)
 Max Uplift 8=-214(LC 12), 10=-299(LC 12)
 Max Grav 8=659(LC 1), 10=1074(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-264/381, 3-4=-924/621
 BOT CHORD 2-10=-291/279, 9-10=-291/65, 8-9=-716/796
 WEBS 3-10=-976/493, 3-9=-695/1095, 4-9=-290/168, 4-8=-835/745

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 14-8-8 zone; cantilever left and right exposed; porch 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) 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) except (jt=lb) 8=214, 10=299.



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July 20,2021

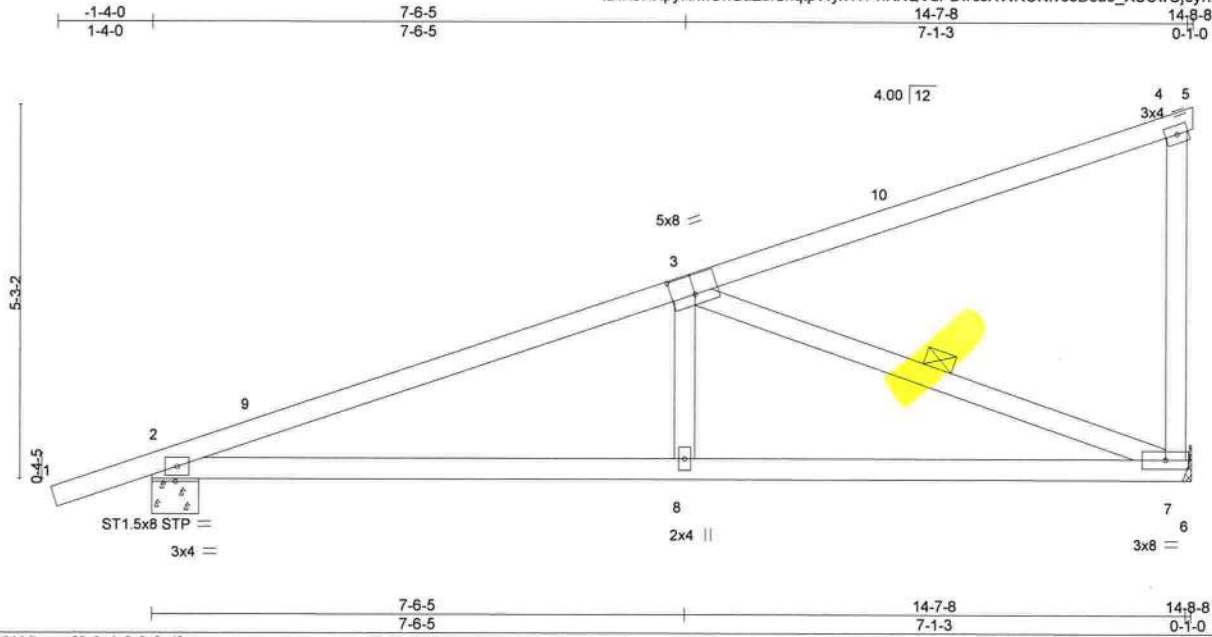
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
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Job 1459442	Truss L9	Truss Type Jack-Closed	Qty 1	Ply 1	Job Reference (optional)	T24733662
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:13:59 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtpWyxY11-hKKQVdPBwcsXWRCNiv6sDsu3_XSCwOjeynDBQaywQR6



Scale = 1:31.3

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.06	2-8	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.20	2-8	>867		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 68 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-7

REACTIONS. (size) 7=Mechanical, 2=0-8-0
 Max Horz 2=160(LC 12)
 Max Uplift 7=108(LC 12), 2=124(LC 12)
 Max Grav 7=785(LC 1), 2=941(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1429/176, 4-7=-262/157
 BOT CHORD 2-8=-320/1252, 7-8=-323/1245
 WEBS 3-8=0/331, 3-7=-1288/328

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-9 to 1-7-7, Interior(1) 1-7-7 to 14-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) except (jt=lb) 7=108, 2=124.



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Job 1459442	Truss LG1	Truss Type Flat Girder	Qty 1	Ply 2	Job Reference (optional)	T24733663
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:00 2021 Page 1
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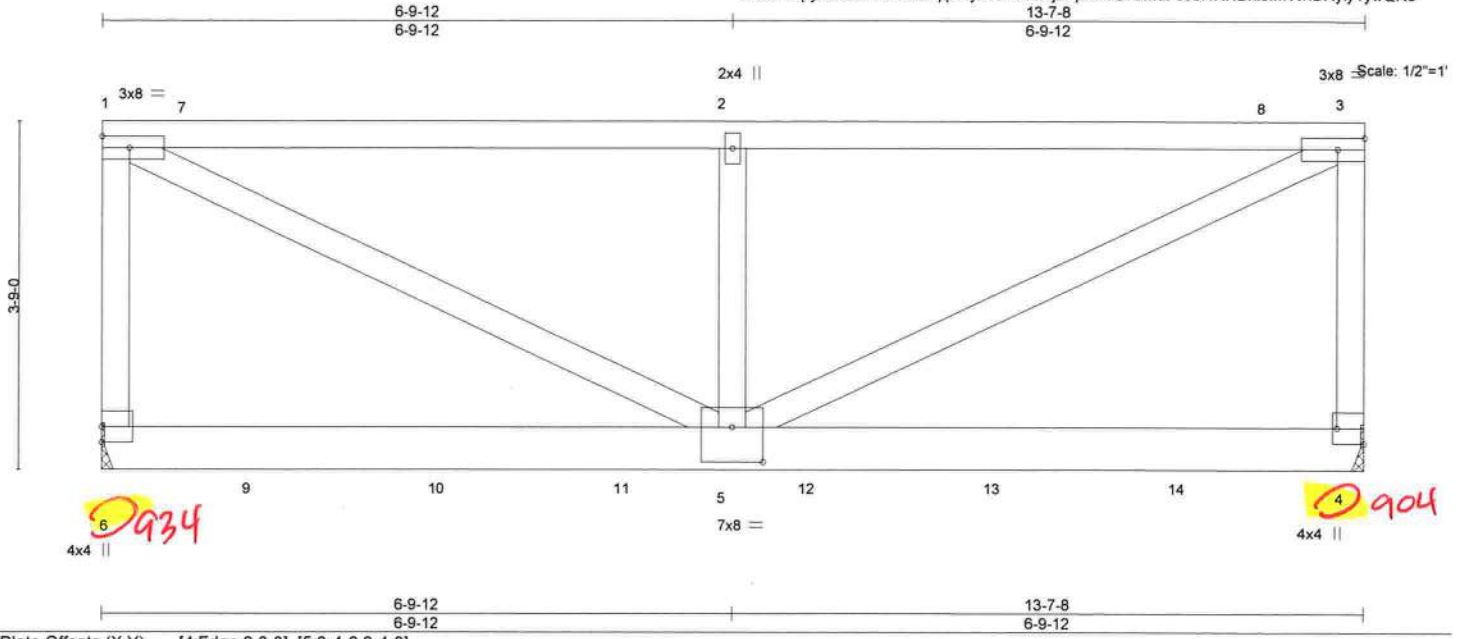


Plate Offsets (X,Y)--	[4:Edge,0-3-8], [5:0-4-0,0-4-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.67	Vert(LL) 0.08	5-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL 1.25		BC 0.88	Vert(CT) -0.18	5-6	>898	180		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.76	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 173 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
 Max Uplift 6=934(LC 4), 4=904(LC 5)
 Max Grav 6=2954(LC 1), 4=2872(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-2064/648, 1-2=-3678/1167, 2-3=-3678/1167, 3-4=-2065/649
 WEBS 1-5=-1262/3972, 2-5=-661/219, 3-5=-1263/3976

- NOTES-**
- 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.
 - 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.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpI=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=934, 4=904.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 783 lb down and 304 lb up at 1-8-4, 698 lb down and 266 lb up at 3-8-4, 698 lb down and 266 lb up at 5-8-4, 698 lb down and 266 lb up at 7-8-4, and 698 lb down and 266 lb up at 9-8-4, and 783 lb down and 304 lb up at 11-8-4 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: 1-3=-90, 4-6=-20



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Continued on page 2

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Job 1459442	Truss LG1	Truss Type Flat Girder	Qty 1	Ply 2	T24733663
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:00 2021 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-783(F) 10=-698(F) 11=-698(F) 12=-698(F) 13=-698(F) 14=-783(F)

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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

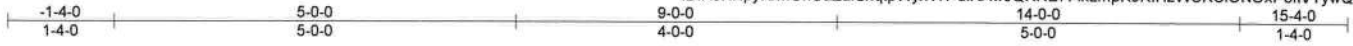


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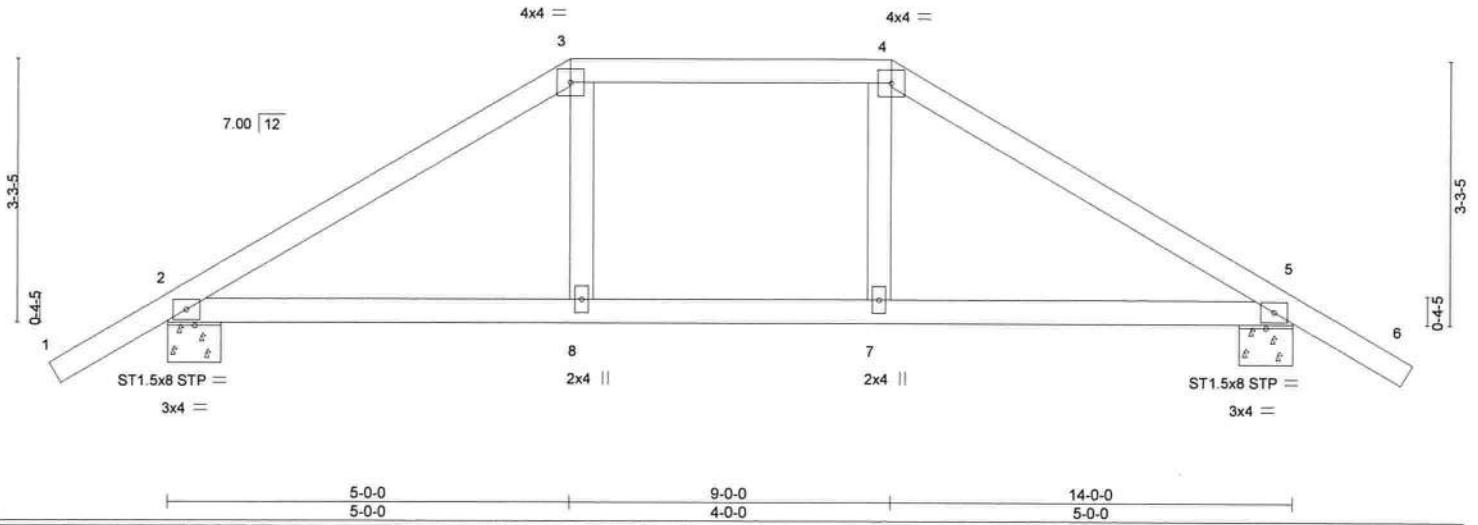
Job 1459442	Truss M1	Truss Type Hip Girder	Qty 1	Ply 1	T24733664
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:01 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyY11-diRAwJQRRE7FkLmpK9KIHzWCKCiONUxP5iIVTywQR4



Scale = 1:27.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.34	Vert(LL) -0.04 5-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) -0.07 5-7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 57 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 5=0-8-0
Max Horz 2=75(LC 7)
Max Uplift 2=149(LC 8), 5=149(LC 8)
Max Grav 2=908(LC 1), 5=908(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1032/107, 3-4=-774/117, 4-5=-1032/107
BOT CHORD 2-8=-35/768, 7-8=-33/774, 5-7=-34/768

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=149, 5=149.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 58 lb up at 5-0-0, and 30 lb down and 58 lb up at 9-0-0 on top chord, and 17 lb down at 5-0-0, and 17 lb down at 9-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-6=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-2(B) 4=-2(B) 8=-17(B) 7=-17(B)



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July 20, 2021

Job 1459442	Truss M1G	Truss Type Common Girder	Qty 1	Ply 2	Job Reference (optional)	T24733665
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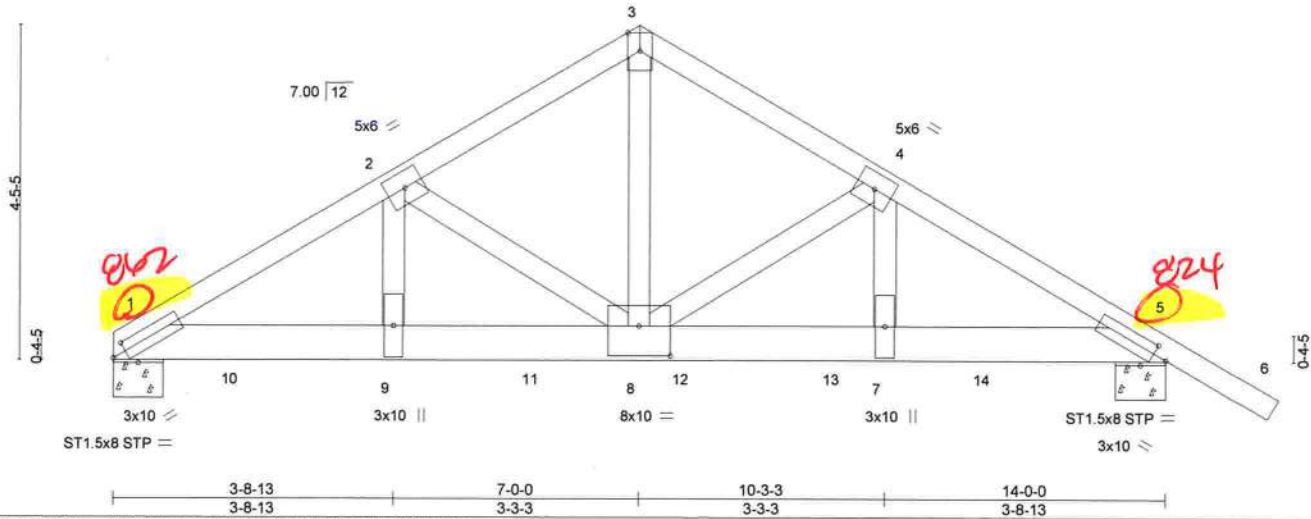


Plate Offsets (X,Y)-- [1:0-2-3,0-1-8], [5:0-2-3,0-1-8], [8:0-5-0,0-4-12]

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 0.71	Vert(LL)	-0.07 8-9	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.18 8-9	>886	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.05 5	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 162 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3 *Except*
 3-8: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-8-0, 5=0-8-0
 Max Horz 1=-94(LC 6)
 Max Uplift 1=-862(LC 8), 5=-824(LC 8)
 Max Grav 1=7606(LC 1), 5=6782(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-11347/1295, 2-3=-7775/920, 3-4=-7773/920, 4-5=-10739/1213
 BOT CHORD 1-9=-1023/9565, 8-9=-1023/9565, 7-8=-951/9037, 5-7=-951/9037
 WEBS 3-8=-853/7432, 4-8=-2833/345, 4-7=-340/3084, 2-8=-3463/431, 2-9=-390/3710

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=862, 5=824.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2251 lb down and 268 lb up at 1-7-4, 2251 lb down and 268 lb up at 3-7-4, 2160 lb down and 257 lb up at 5-7-4, 2050 lb down and 251 lb up at 7-7-4, and 2026 lb down and 245 lb up at 9-7-4, and 2026 lb down and 246 lb up at 11-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



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

July 20,2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss M1G	Truss Type Common Girder	Qty 1	Ply 2	T24733665
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:02 2021 Page 2
ID:XJKHpyKrMOKGaZufSxqtpWyxY11-5v?Z7fR3CXF6NuwyN1gZqUWc3kU97eI4eIRs1vywQR3

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-6=-90, 1-5=-20

Concentrated Loads (lb)

Vert: 9=-2251(F) 10=-2251(F) 11=-2160(F) 12=-2050(F) 13=-2026(F) 14=-2026(F)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss M2	Truss Type Common	Qty 4	Ply 1	Job Reference (optional) T24733666
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:03 2021 Page 1
 ID: XJKHpyKrMokGaZufSxqtpWyxY11-Z5ZxL_SizrNz72V9xIBoNi3l18rksF3E1PBPZLyyQR2



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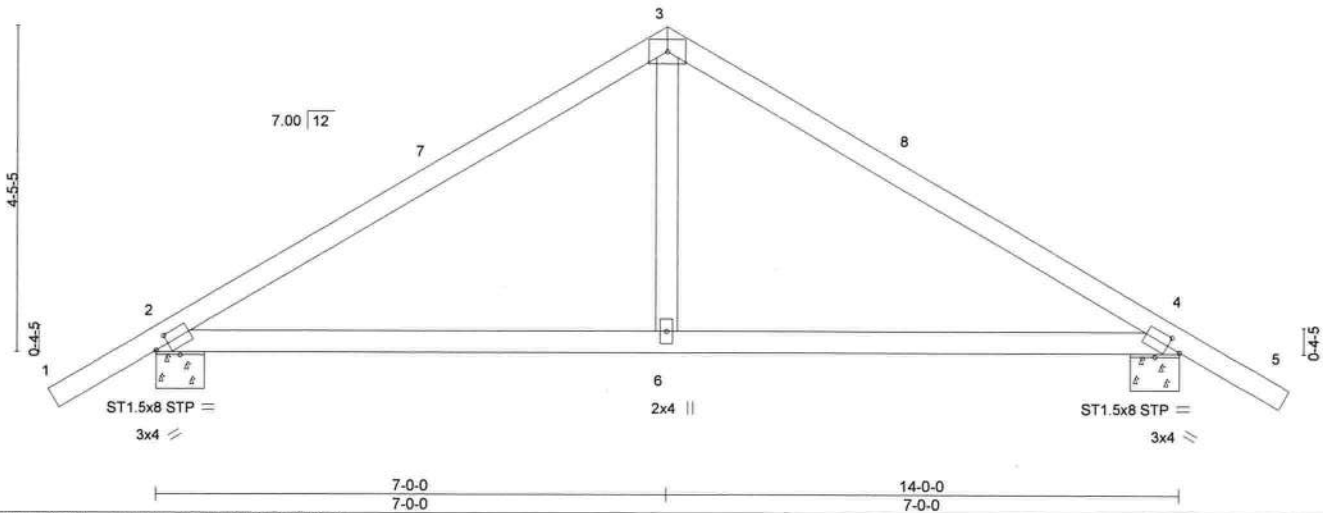


Plate Offsets (X,Y)-- [2:0-2-4,0-1-8], [4:0-2-4,0-1-8]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	Vert(LL)	-0.04	2-6	>999	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.56	Vert(CT)	-0.13	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.13	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH						
	Code FBC2020/TPI2014						Weight: 56 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 4=0-8-0
 Max Horz 2=98(LC 11)
 Max Uplift 2=-141(LC 12), 4=-141(LC 12)
 Max Grav 2=890(LC 1), 4=890(LC 1)

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

TOP CHORD 2-3=-926/143, 3-4=-926/143
 BOT CHORD 2-6=-7/649, 4-6=-7/649
 WEBS 3-6=0/342

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 15-4-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 4=141.



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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss N1G	Truss Type Hip Girder	Qty 1	Ply 1	T24733667
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:04 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-1H7JYKSKk9VqcC4LUSi1wv0UYFZbh2N63wy5oywQR1

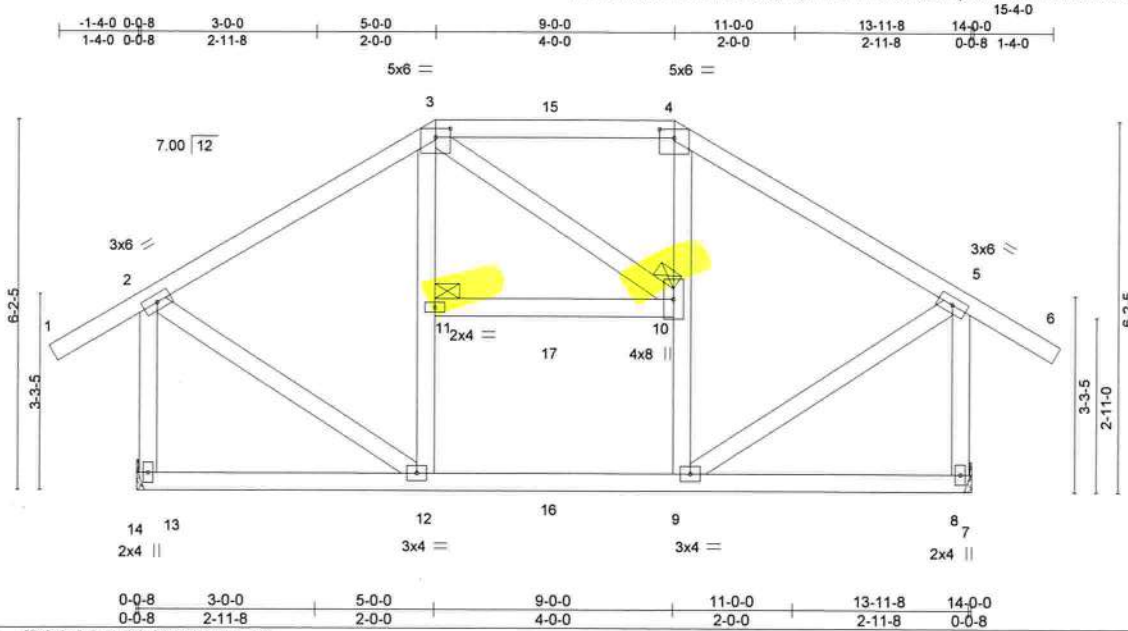


Plate Offsets (X,Y)-- [3:0-3:0,0-1-12], [4:0-3:0,0-1-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	Vert(LL)	-0.03	10-11	>999	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.27	Vert(CT)	-0.06	10-11	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.21	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH						
	Code FBC2020/TP12014						Weight: 103 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 11, 10

REACTIONS.

(size) 13=Mechanical, 8=Mechanical
 Max Horz 13=-75(LC 6)
 Max Uplift 13=-289(LC 8), 8=-289(LC 8)
 Max Grav 13=917(LC 1), 8=917(LC 1)

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

TOP CHORD 2-3=-587/245, 3-4=-421/241, 4-5=-587/244
 BOT CHORD 9-12=-137/411
 WEBS 11-12=-256/30, 9-10=-257/30, 2-12=-159/492, 5-9=-159/491, 2-13=-874/307,
 5-8=-873/306

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=289, 8=289.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 206 lb up at 5-0-0, and 29 lb down and 54 lb up at 6-11-4, and 93 lb down and 206 lb up at 9-0-0 on top chord, and 135 lb up at 4-10-4, and 12 lb down and 9 lb up at 6-11-4, and 135 lb up at 9-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-90, 3-4=-90, 4-6=-90, 7-14=-20, 10-11=-20



Joaquin Velez PE No.68182
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July 20, 2021

Continued on page 2

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
1459442	N1G	Hip Girder	1	1	T24733667

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:04 2021 Page 2

ID:XJKHpyKrMOKGaZufSxqtpWyxYI1-1H7JYKSk9VqcC4LUSi1wvb0UYFZbh2N63wy5oywQR1

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-46(B) 12=78(B) 9=78(B) 3=-46(B) 15=-29(B) 16=9(B)

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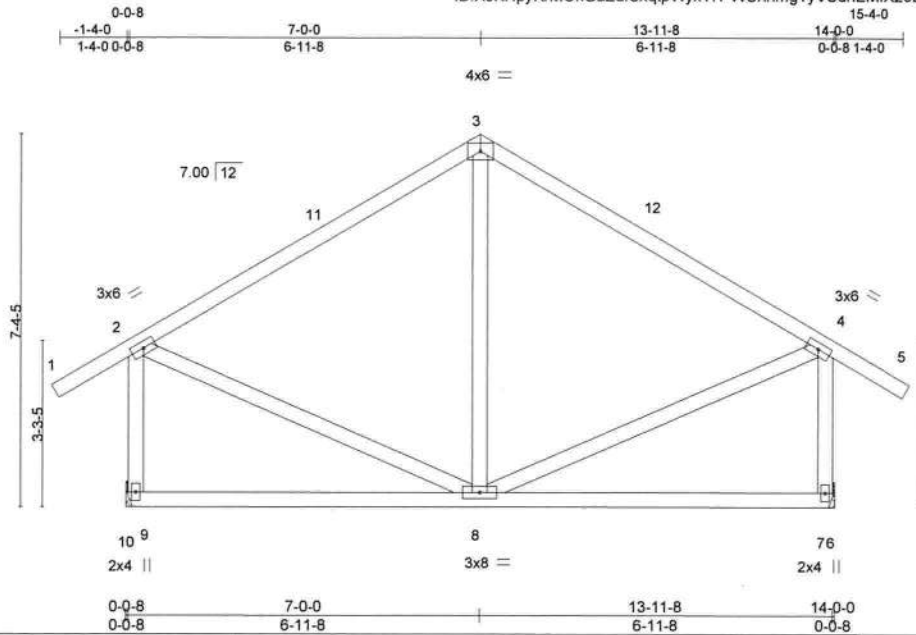
Job 1459442	Truss N2	Truss Type Common	Qty 1	Ply 1	T24733668
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:05 2021 Page 1

ID: XJKHpyKrMokGaZufSxqlpWyxY11-WUhhmgTyVSdhEMFX29DGS787lyYuK8QWKjgWeEywQR0



Scale = 1:43.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.45	Vert(LL) -0.06 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.20	Vert(CT) -0.12 8-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 90 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 9=Mechanical, 7=Mechanical
 Max Horz 9=-98(LC 10)
 Max Uplift 9=-136(LC 12), 7=-136(LC 12)
 Max Grav 9=897(LC 1), 7=897(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-606/138, 3-4=-606/138
 WEBS 2-8=-10/444, 4-8=-10/444, 2-9=-841/213, 4-7=-841/213

- 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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 15-4-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 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) 9=136, 7=136.



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July 20,2021

Job 1459442	Truss P1	Truss Type MONOPITCH	Qty 6	Ply 1	T24733669
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Builders FirstSource (Lady Lake, FL),

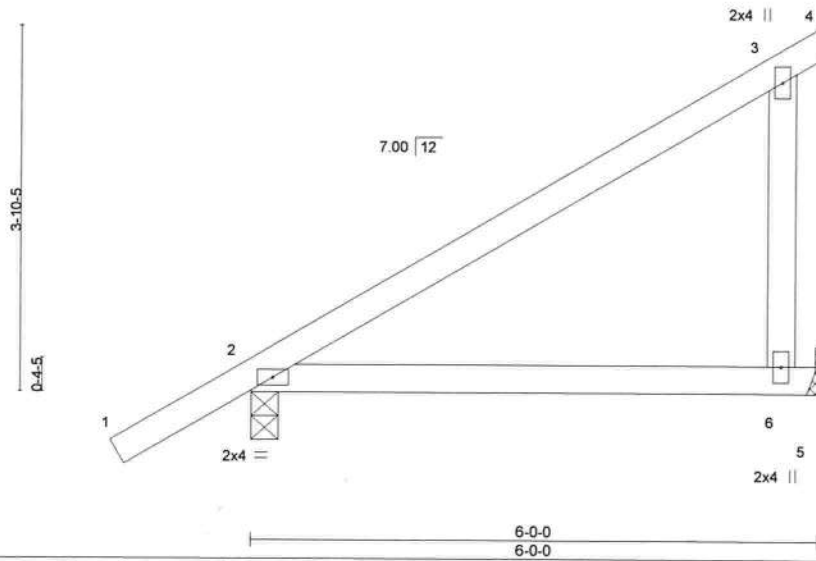
Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:05 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxY11-WUhhmgTyVSdhEMfX29DGS78ZyWQKAXWkgWeEywQRO



Scale = 1:23.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.61	Vert(LL) 0.20 2-6 >347 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) 0.17 2-6 >413 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
	Code FBC2020/TPI2014			Weight: 26 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 5=Mechanical
 Max Horz 2=139(LC 12)
 Max Uplift 2=-124(LC 12), 5=-123(LC 12)
 Max Grav 2=477(LC 1), 5=305(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-268/204

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 6-0-0 zone; cantilever left and right exposed ; porch 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) 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) except (jt=lb) 2=124, 5=123.



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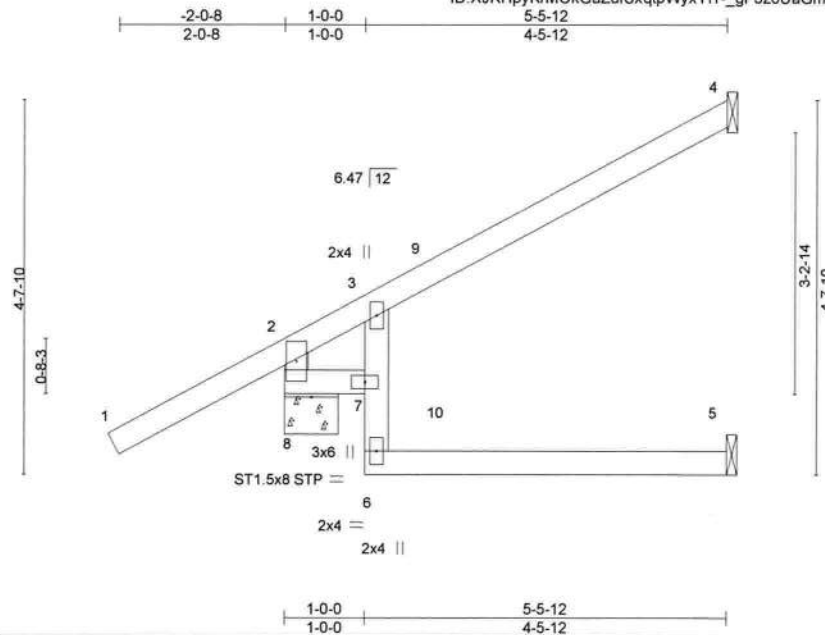


6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss R1S	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	T24733670
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:06 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxY11-_gF3z0UaGmlYsVEjctIV7KhK?LxT3eqgZNP3AgwQR?



Scale = 1:27.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.30	Vert(LL) -0.03 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.08 5-6 >748 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.05 5 n/a n/a	Weight: 24 lb	FT = 20%
	Code FBC2020/TPI2014				

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-8-0, 4=Mechanical, 5=Mechanical
Max Horz 8=135(LC 8)
Max Uplift 8=101(LC 8), 4=56(LC 8)
Max Grav 8=537(LC 1), 4=190(LC 1), 5=95(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-430/94

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.. GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=101.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 32 lb up at 1-11-3, and 11 lb down and 32 lb up at 1-11-3 on top chord, and at 1-11-3, and at 1-11-3 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: 1-2=-90, 2-4=-90, 7-8=-20, 5-6=-20



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

July 20,2021

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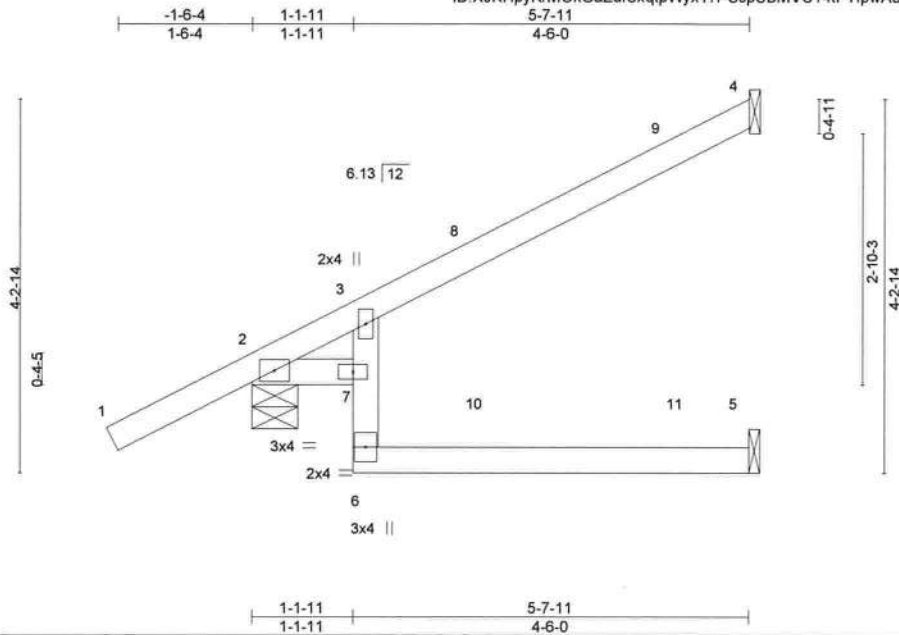


6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss R1W	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	T24733671
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:07 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxYI1-SspSBMVC14IPTfwAaGkXYDVqldSo54po19ci7ywQR_



Scale = 1:25.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.45	Vert(LL) -0.03 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.09 5-6 >683 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.05 5 n/a n/a	Weight: 23 lb	FT = 20%
	Code FBC2020/TP12014				

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-6-4, 5=Mechanical
Max Horz 2=117(LC 8)
Max Uplift 4=54(LC 8), 2=88(LC 8)
Max Grav 4=196(LC 1), 2=488(LC 1), 5=102(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7 lb down and 31 lb up at 2-7-1, and 8 lb down and 76 lb up at 4-10-6 on top chord, and 1 lb up at 2-7-1, and 7 lb down at 4-10-6 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=-90, 2-7=-20, 5-6=-20
- Concentrated Loads (lb)
Vert: 10=1(B) 11=-7(F)



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July 20,2021

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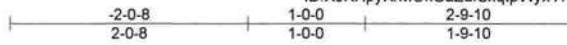
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



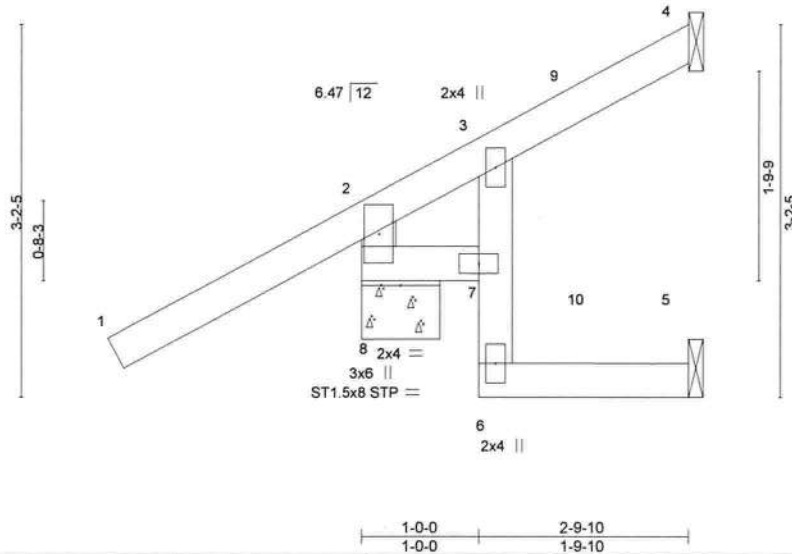
6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss R2S	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	T24733673
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:08 2021 Page 1



Scale = 1:19.1



LOADING (psf) TCLL 20.0 TCDL 25.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	CSI. TC 0.58 BC 0.21 WB 0.00 Matrix-R	DEFL. Vert(LL) 0.00 7 >999 240 Vert(CT) 0.00 7 >999 180 Horz(CT) -0.00 4 n/a n/a	PLATES - GRIP MT20 244/190 Weight: 16 lb FT = 20%
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-9-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
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REACTIONS. (size) 8=0-8-0, 4=Mechanical, 5=Mechanical
Max Horz 8=93(LC 8)
Max Uplift 8=115(LC 8), 4=15(LC 5)
Max Grav 8=435(LC 1), 4=48(LC 1), 5=30(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=371/114

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=115.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 24 lb up at 1-11-3 on top chord, and at 1-11-3 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: 1-2=-90, 2-4=-90, 7-8=-20, 5-6=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20,2021

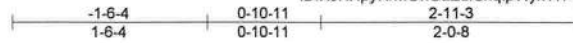
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANS/TF11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Tampa, FL 36610

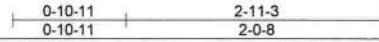
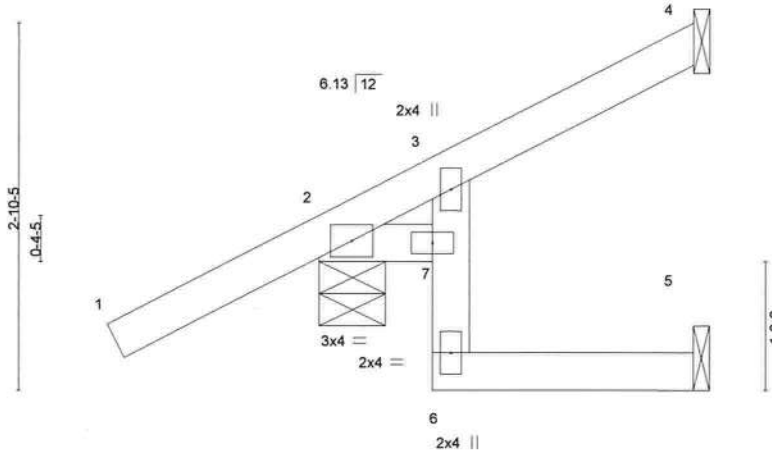
Job	Truss	Truss Type	Qty	Ply	T24733674
1459442	R2W	Jack-Open	2	1	

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:09 2021 Page 1

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Scale = 1:17.3



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 0.33	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.00	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-R					Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-6-4, 5=Mechanical
Max Horz 2=77(LC 12)
Max Uplift 4=14(LC 9), 2=-96(LC 12)
Max Grav 4=68(LC 17), 2=369(LC 1), 5=38(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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Date: July 20,2021

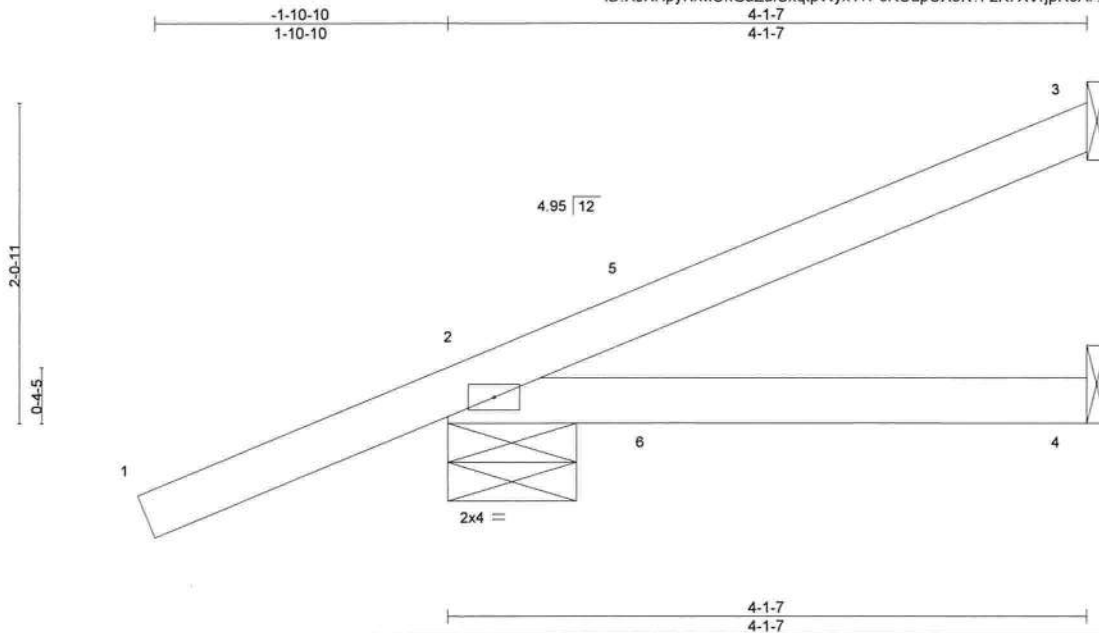
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply		T24733675
1459442	R3A	Diagonal Hip Girder	3	1		

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:10 2021 Page 1
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Scale = 1:14.3

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)	-0.01	2-4	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.02	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-10-0, 4=Mechanical
Max Horz 2=82(LC 8)
Max Uplift 3=47(LC 5), 2=177(LC 8)
Max Grav 3=44(LC 1), 2=316(LC 1), 4=74(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=177.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb up at 1-4-9, and 170 lb up at 1-4-9 on top chord, and at 1-4-9, and at 1-4-9 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: 1-3=-90, 2-4=-20
Concentrated Loads (lb)
Vert: 5=216(F=108, B=108)



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July 20,2021

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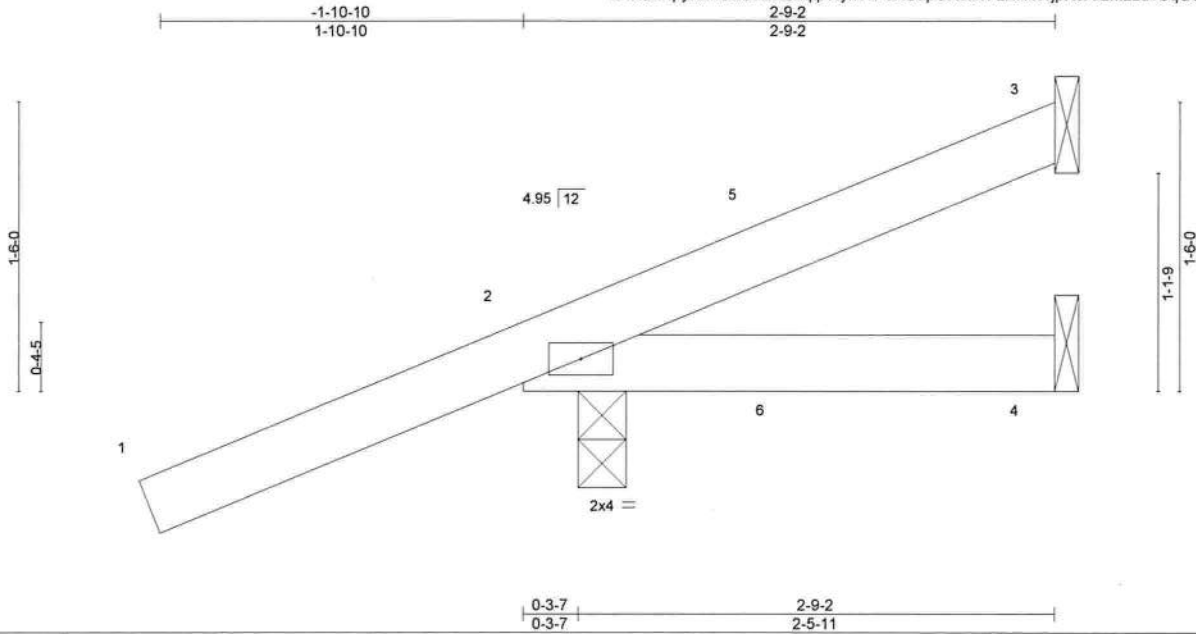


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Job 1459442	Truss R3E	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	T24733676
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ID: XJKHpyKrMOKGaZufSxqpWyxYl1-sRUapOX5K?FzK7XVrjpR9Ar2MzLu?SqGU?NHlRywQQx



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 0.50	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	2-4	>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/TPI2014	Matrix-P						Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-0
Max Horz 2=66(LC 8)
Max Uplift 3=115(LC 14), 2=150(LC 8)
Max Grav 4=51(LC 3), 2=300(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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) except (jt=lb) 3=115, 2=150.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb up at 1-4-9 on top chord, and at 1-4-9, and at 1-4-9 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: 1-3=-90, 2-4=-20
Concentrated Loads (lb)
Vert: 5=199(F=100, B=100)



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

July 20,2021

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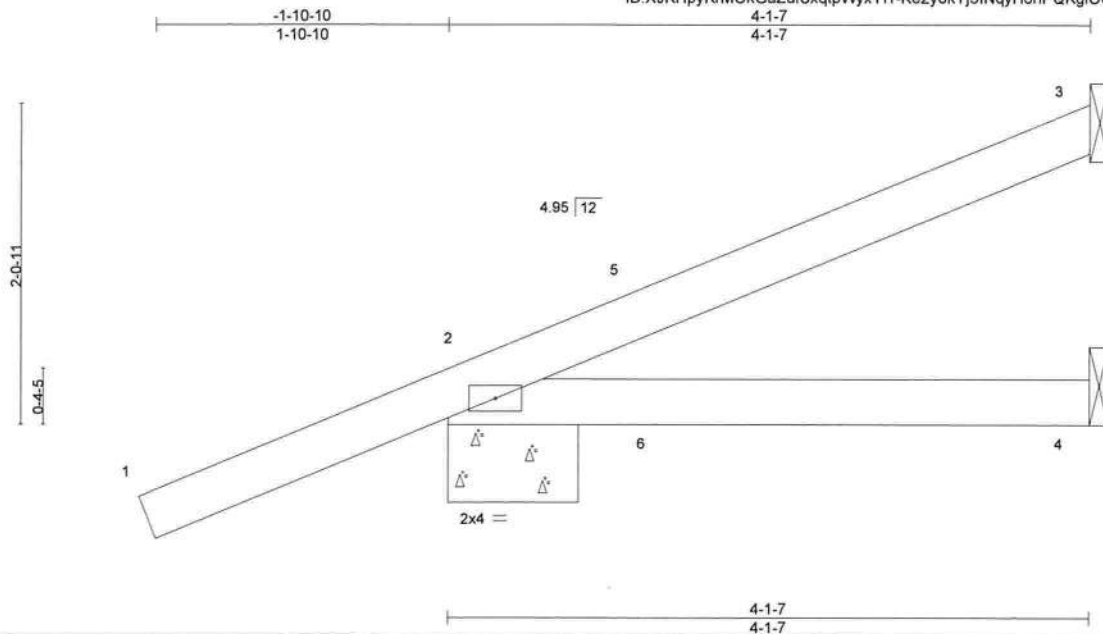
Job 1459442	Truss R5	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	T24733677
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:11 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqpWyxY11-Ke2y0kYj5lNqyH6hPQKgiOOA1Mgakv4Pjf7qquywQQw



Scale = 1:14.3

LOADING (psf) TCLL 20.0 TCDL 25.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 2-0-0 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	CSI. TC 0.69 BC 0.18 WB 0.00 Matrix-P	DEFL. Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) -0.00	in (loc) 2-4 2-4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	Weight: 16 lb FT = 20%
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-10-0, 4=Mechanical
Max Horz 2=82(LC 8)
Max Uplift 3=-47(LC 5), 2=-177(LC 8)
Max Grav 3=44(LC 1), 2=316(LC 1), 4=74(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MVFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=177.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb up at 1-4-9, and 170 lb up at 1-4-9 on top chord, and at 1-4-9, and at 1-4-9 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: 1-3=-90, 2-4=-20
Concentrated Loads (lb)
Vert: 5=216(F=108, B=108)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20, 2021

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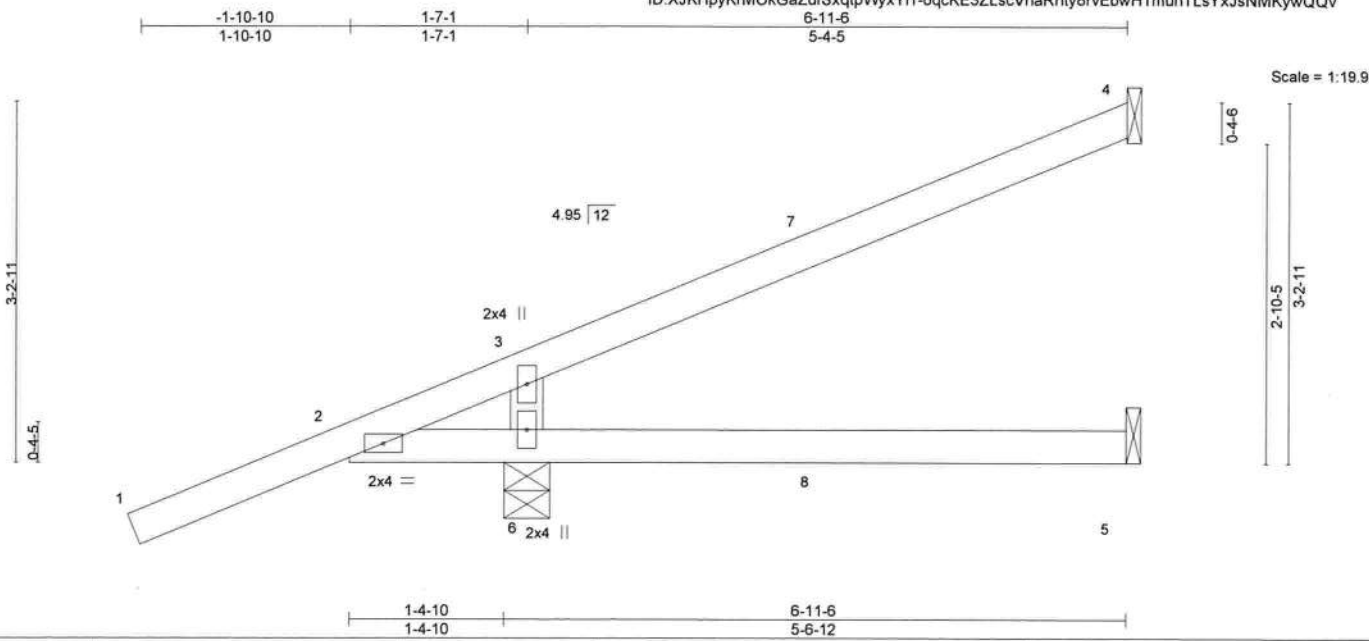
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss R5D	Truss Type DIAGONAL HIP GIRDER	Qty 2	Ply 1	Job Reference (optional) T24733678
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:12 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqtpWyxY11-oqcKE3ZLscVhaRhty8rvEbwHTmuhTLsYxJsNMKywQQv



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.70	Vert(LL) 0.04 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.09	Vert(CT) 0.14 5-6 >445 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.10 4 n/a n/a		
	Code FBC2020/TPI2014			Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-4-15
Max Horz 6=116(LC 8)
Max Uplift 4=69(LC 8), 5=114(LC 16), 6=407(LC 8)
Max Grav 4=96(LC 1), 5=4(LC 3), 6=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=522/170

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=114, 6=407.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 111 lb up at 1-4-9, and 129 lb up at 4-2-8, and 129 lb up at 4-2-8 on top chord, and 198 lb down and 93 lb up at 1-4-9, and 91 lb up at 4-2-8, and 91 lb up at 4-2-8 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=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-198(F) 3=-98(B) 7=150(F=75, B=75) 8=135(F=68, B=68)



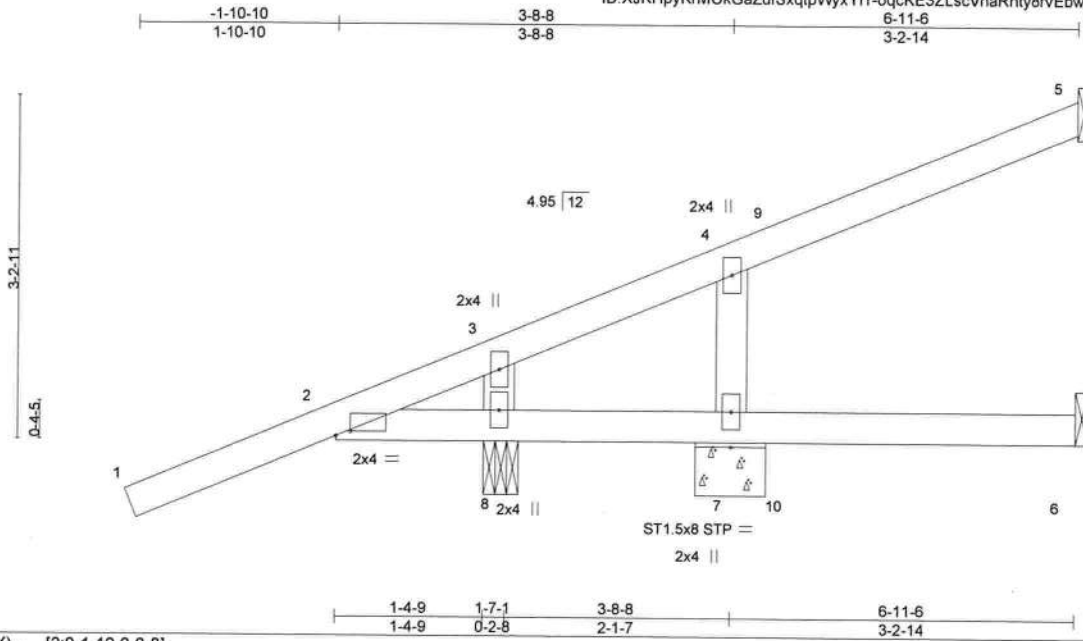
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20, 2021

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	R5M	Diagonal Hip Girder	2	1	T24733679

Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:12 2021 Page 1

ID:XJKHpyKrMOKGaZufSxqtpWyxYI1-oqcKE3ZLscVhaRhty8rvEbwMpmHTL5YxJsnMKyWQQv



Scale = 1:20.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.73	Vert(LL) 0.01 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Vert(CT) 0.02 7-8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.06 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 27 lb	FT = 20%

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

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

REACTIONS. All bearings Mechanical except (jt=length) 7=0-8-0, 8=0-4-0.
(lb) - Max Horz 8=116(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 7=109(LC 14), 8=319(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 7 except 8=1028(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=435/125

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; 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) 5 except (jt=lb) 7=109, 8=319.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 111 lb up at 1-4-9, and 136 lb up at 4-2-8, and 33 lb up at 4-2-8 on top chord, and 198 lb down and 105 lb up at 1-4-9, and at 4-2-8 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: 1-5=-90, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-198(F) 3=-98(B) 9=77(F)



Joaquin Velez PE No.68182
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Date:

July 20,2021

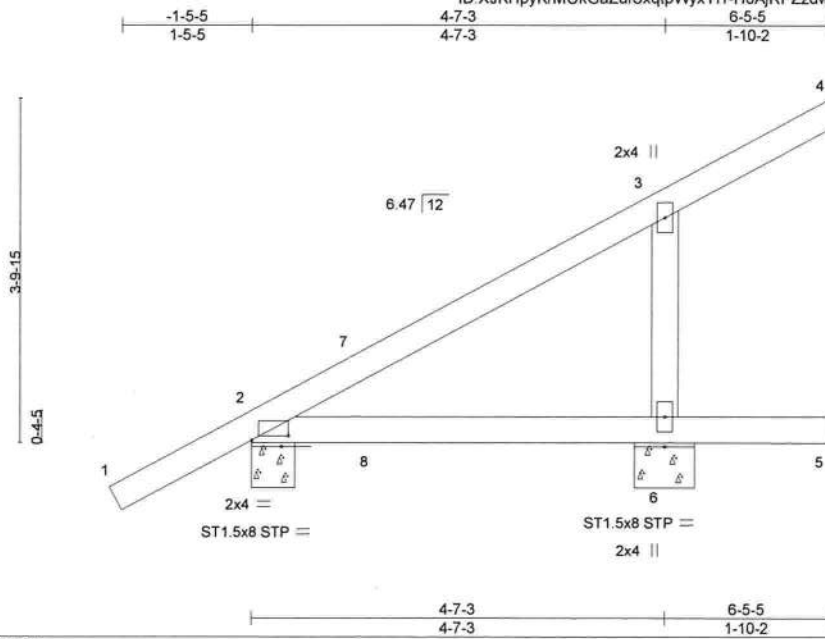
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss R5P	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	Job Reference (optional) T24733680
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:13 2021 Page 1
ID: XJKHpyKrMOKGaZurSxqtpWyxY11-H0AJRPZzdwdYBaG4WvN8npTRIAMCCpdiAzcxvmywQQu



Scale = 1:24.8

Plate Offsets (X,Y)-- [2:0-4-15,0-0-9]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.96	Vert(LL)	0.02	2-6	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.03	2-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						Weight: 27 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-5-13, 6=0-8-0
Max Horz 2=149(LC 8)
Max Uplift 2=152(LC 8), 6=189(LC 8)
Max Grav 2=159(LC 1), 6=373(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-285/182

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpj=0.18; MWFRS (directional); cantilever left and right exposed; porch left and right exposed; 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 studs spaced at 2-0-0 oc.
 - 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) 2=152, 6=189.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 263 lb up at 1-4-8, and 263 lb up at 1-4-8 on top chord, and at 1-4-8, and at 1-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 7=308(F=154, B=154)



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

July 20,2021

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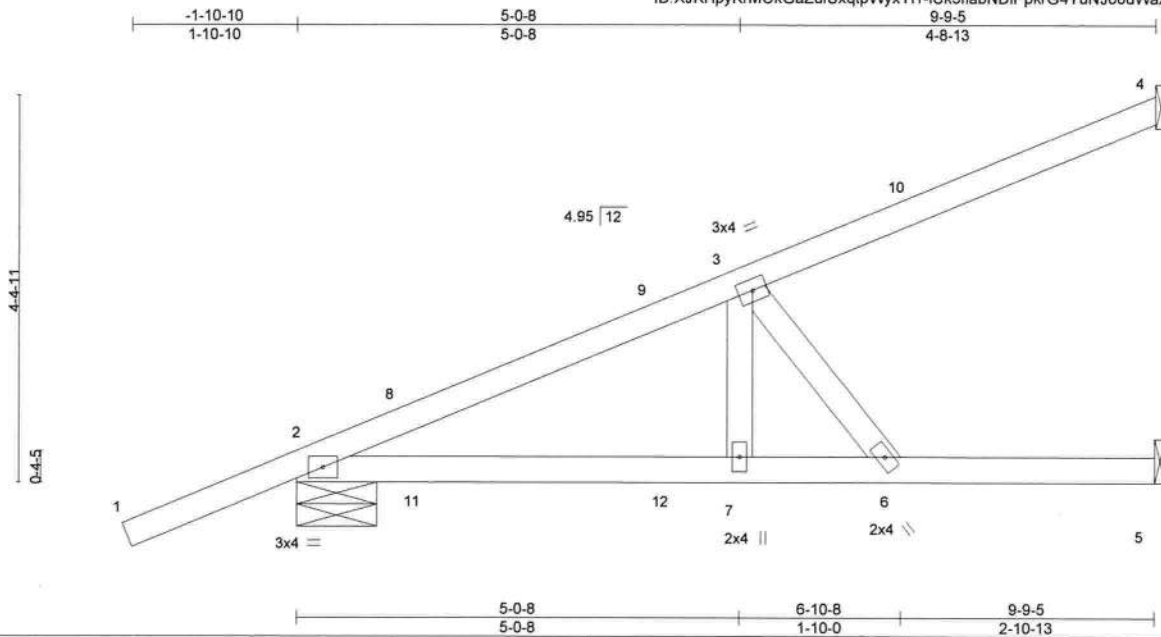
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6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss R7	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Job Reference (optional)	T24733681
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Scale = 1:25.3

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 0.93	Vert(LL)	-0.16	6	>698	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.45	6	>251		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=150(LC 8)
Max Uplift 4=-72(LC 8), 2=-209(LC 8), 5=-41(LC 8)
Max Grav 4=246(LC 1), 2=590(LC 1), 5=313(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-728/101
BOT CHORD 2-7=-146/591, 6-7=-146/591
WEBS 3-7=-66/634, 3-6=-928/230

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=209.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb up at 1-4-9, 170 lb up at 1-4-9, 33 lb up at 4-2-8, 33 lb up at 4-2-8, and 46 lb down and 80 lb up at 7-0-7, and 46 lb down and 80 lb up at 7-0-7 on top chord, and at 1-4-9, at 1-4-9, at 4-2-8, at 4-2-8, and 34 lb down at 7-0-7, and 34 lb down at 7-0-7 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=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-34(F=-17, B=-17) 8=216(F=108, B=108) 10=-92(F=-46, B=-46)



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Date:

July 20,2021

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Tampa, FL 33610

Job 1459442	Truss R74	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Job Reference (optional) T24733682
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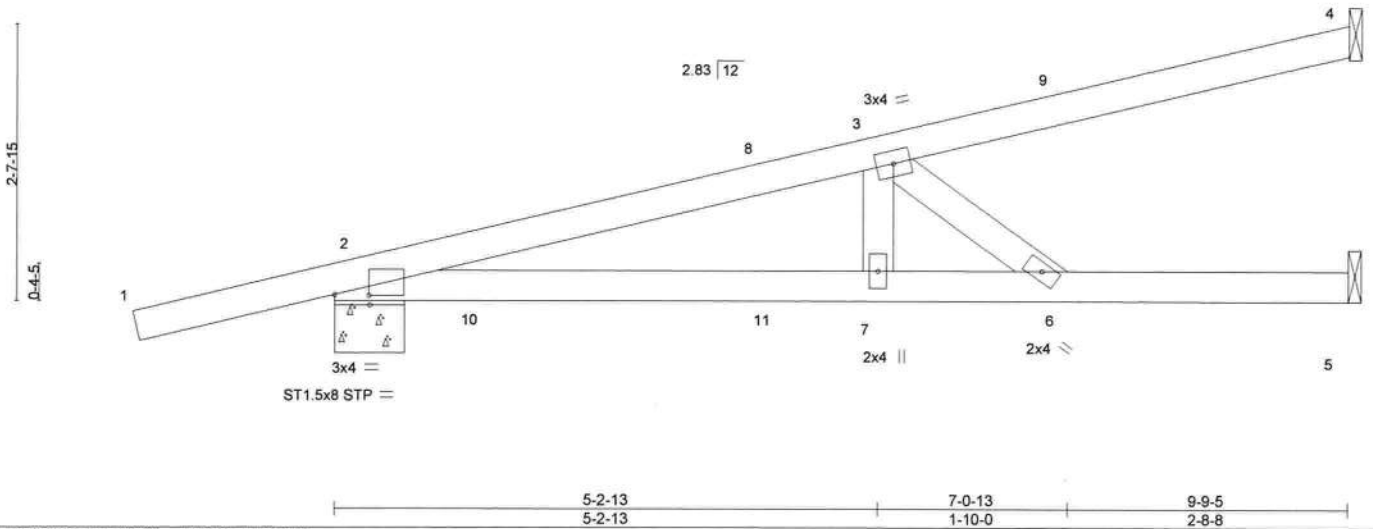


Plate Offsets (X,Y)-- [2:0-3-14,0-0-2]	5-2-13 5-2-13	7-0-13 1-10-0	9-9-5 2-8-8
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.83	Vert(LL) -0.15 6-7 >752 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.24	Vert(CT) -0.43 6-7 >262 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=88(LC 4)
Max Uplift 4=-53(LC 4), 2=-237(LC 4), 5=-26(LC 4)
Max Grav 4=234(LC 1), 2=655(LC 1), 5=332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1108/139
BOT CHORD 2-7=-180/1004, 6-7=-180/1004
WEBS 3-7=-46/622, 3-6=-1240/222

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=237.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb up at 4-2-8, 21 lb up at 4-2-8, and 47 lb down and 60 lb up at 7-0-7, and 47 lb down and 60 lb up at 7-0-7 on top chord, and 86 lb up at 1-4-9, 86 lb up at 1-4-9, at 4-2-8, at 4-2-8, and 34 lb down at 7-0-7, and 34 lb down at 7-0-7 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=-90, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-34(F=-17, B=-17) 9=-93(F=-47, B=-47) 10=140(F=70, B=70)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20, 2021

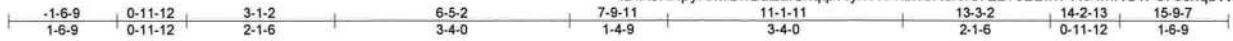
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss S1G	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional)	T24733683
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:16 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqpWyxY11-hbrr3Rrcvr07227eBzwrPR54mNCvP878sxbW5ywQQR



Scale = 1:31.6

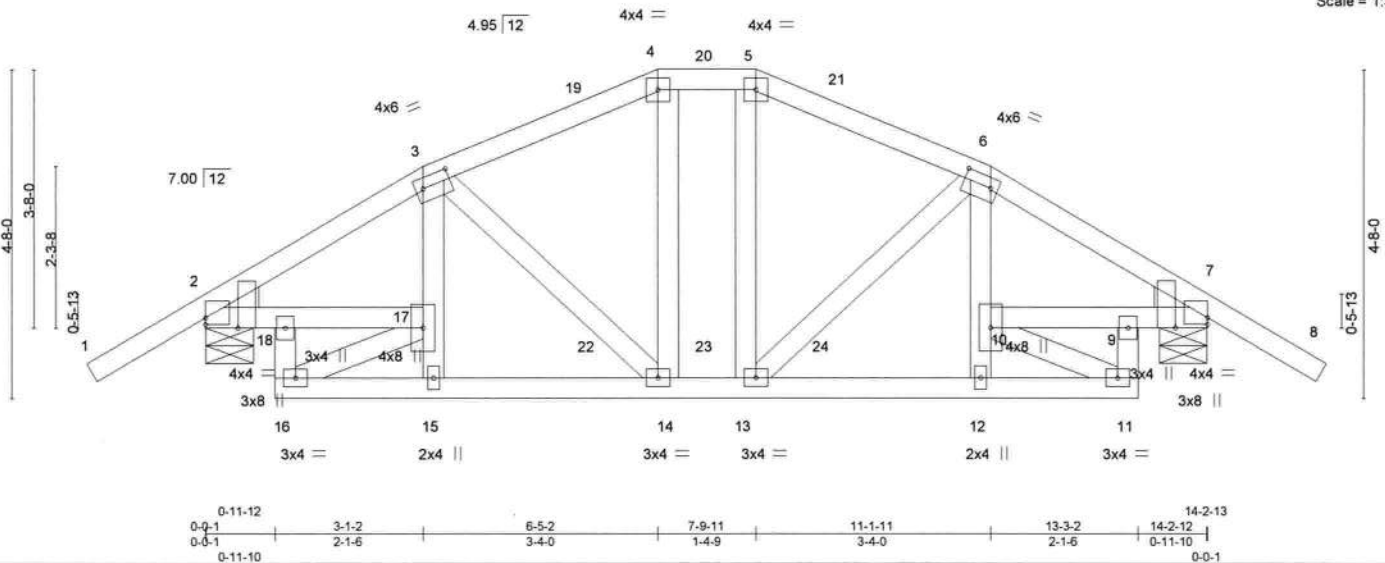


Plate Offsets (X,Y)-- [2:0-1-12,Edge], [2:0-0-0,0-1-2], [3:0-4-12,0-1-12], [6:0-4-12,0-1-12], [7:Edge,0-1-2], [7:0-1-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.01 14-15	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.04 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 99 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
16-18,9-11: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-1, 7=0-8-1
Max Horz 2=75(LC 7)
Max Uplift 2=-202(LC 8), 7=-202(LC 8)
Max Grav 2=1189(LC 1), 7=1189(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1040/143, 3-4=-1052/180, 4-5=-915/182, 5-6=-1052/180, 6-7=-1040/143
BOT CHORD 2-18=-63/786, 17-18=-55/674, 16-18=-21/326, 15-16=-57/743, 14-15=-58/760,
13-14=-72/915, 12-13=-52/760, 11-12=-51/743, 9-11=-21/326, 9-10=-49/674,
7-9=-55/786
WEBS 16-17=-698/57, 10-11=-698/57

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 7=202.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 41 lb up at 3-1-2, 87 lb down and 74 lb up at 5-5-7, 115 lb down and 79 lb up at 6-5-2, 113 lb down and 82 lb up at 7-1-7, 115 lb down and 79 lb up at 7-9-11, and 87 lb down and 74 lb up at 8-9-7, and 18 lb down and 41 lb up at 11-1-11 on top chord, and 4 lb up at 3-2-14, 29 lb down at 5-5-7, 52 lb down at 6-5-2, 62 lb down at 7-1-7, 52 lb down at 7-9-11, and 29 lb down at 8-9-7, and 4 lb up at 10-11-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date: July 20,2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss S1G	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T24733683
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:16 2021 Page 2

ID:XJKHpyKrMOKGaZufSxqlpWyxY11-hbrr3Rcrr0722?eBzwrPR54mNCvP878sxbW5ywQQR

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-5=-90, 5-6=-90, 6-8=-90, 2-18=-20, 11-16=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-93(F) 5=-93(F) 17=4(F) 14=-34(F) 13=-34(F) 12=4(F) 19=-39(F) 20=-106(F) 21=-39(F) 22=-28(F) 23=-48(F) 24=-28(F)

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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6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss S2G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional)	T24733684
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:18 2021 Page 1
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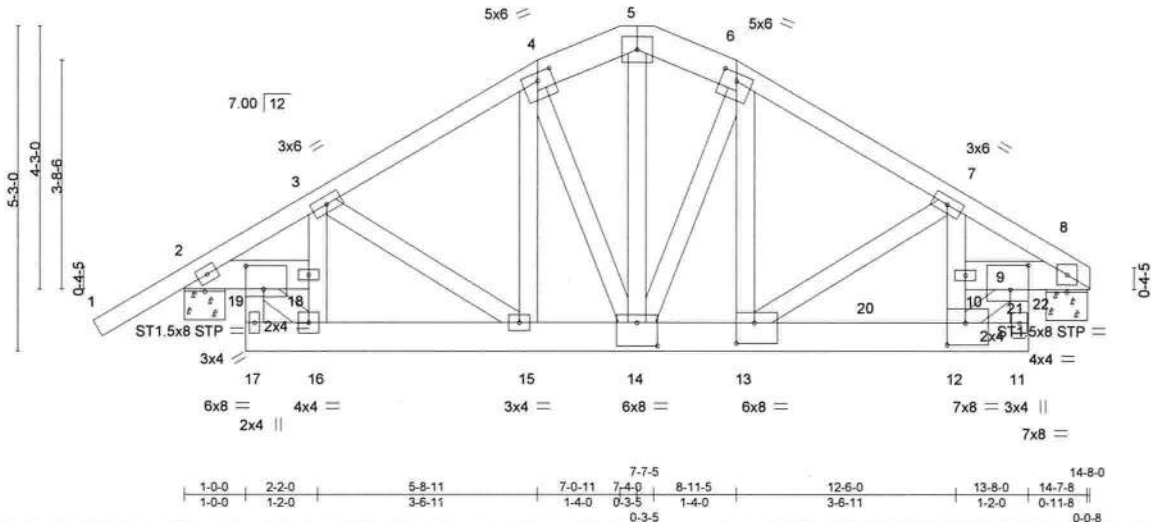
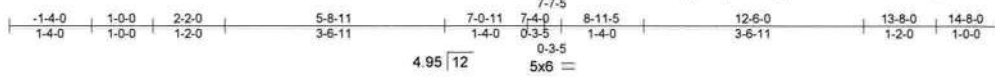


Plate Offsets (X,Y)-- [4:0-3-0,0-1-8], [6:0-3-0,0-1-8], [9:0-3-8,0-4-12], [12:0-3-8,0-4-4], [13:0-3-8,0-4-0], [14:0-4-0,0-4-8], [19:0-3-8,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.03 12-13	>999	240	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.08 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	-0.01 2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-SH					Weight: 243 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 4-5,5-6: 2x6 SP No.2
 BOT CHORD 2x6 SP M 26 *Except*
 17-19: 2x4 SP No.2, 11-17: 2x6 SP No.2, 9-11: 2x4 SP M 31
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-8-0, 2=0-8-0
 Max Horz 8=87(LC 7)
 Max Uplift 8=-470(LC 8), 2=-285(LC 8)
 Max Grav 8=5415(LC 1), 2=3396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3148/211, 3-4=-4313/312, 4-5=-4367/343, 5-6=-4366/343, 6-7=-5285/429, 7-8=-5246/477
 BOT CHORD 2-19=-123/2625, 16-17=-13/325, 15-16=-122/2568, 14-15=-163/3689, 13-14=-254/4449, 12-13=-344/4314, 11-12=-54/673, 9-11=-46/420, 8-9=-349/4390
 WEBS 3-15=-75/1324, 4-15=-654/87, 6-13=-240/1865, 7-13=0/269, 5-14=-204/2771, 4-14=-201/1232, 6-14=-1037/212, 16-18=-2168/139, 3-18=-1421/129, 16-19=-152/3043, 10-12=-1548/80, 7-10=-320/0, 9-12=-398/4966


- NOTES-**
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, except member 5-14 2x4 - 1 row at 0-6-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCPI=0.18; MVFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 8=470, 2=285.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2998 lb down and 57 lb up at 7-1-8, 1376 lb down and 172 lb up at 9-0-12, and 1376 lb down and 172 lb up at 11-0-12, and 1365 lb down and 170 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
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Continued on page 2
 LOAD CASE(S) Standard

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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6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss S2G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional) T24733684
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:18 2021 Page 2
ID:XJKHpyKrMOKGaZufSxqpWyxY11-d_zcU7d6RSGrIM91JOyJUsAOvBvzts2RKFJia_ywQQp

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-90, 4-5=-90, 5-6=-90, 6-8=-90, 2-19=-20, 11-17=-20, 8-9=-20
Concentrated Loads (lb)
Vert: 13=-1376(B) 14=-2998(B) 20=-1376(B) 21=-1365(B)

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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Tampa, FL 36610

Job 1459442	Truss T1G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional)	T24733685
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:19 2021 Page 1

ID:XJKHpyKRMokGaZufSxqtpWyxYI1-5AX iTekCmOivVjDI6TY04jWhbHGcMhaYu3F6QywQOo



Scale = 1:24.6

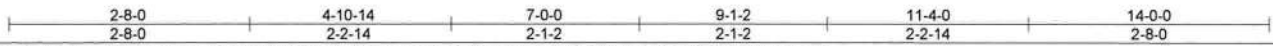
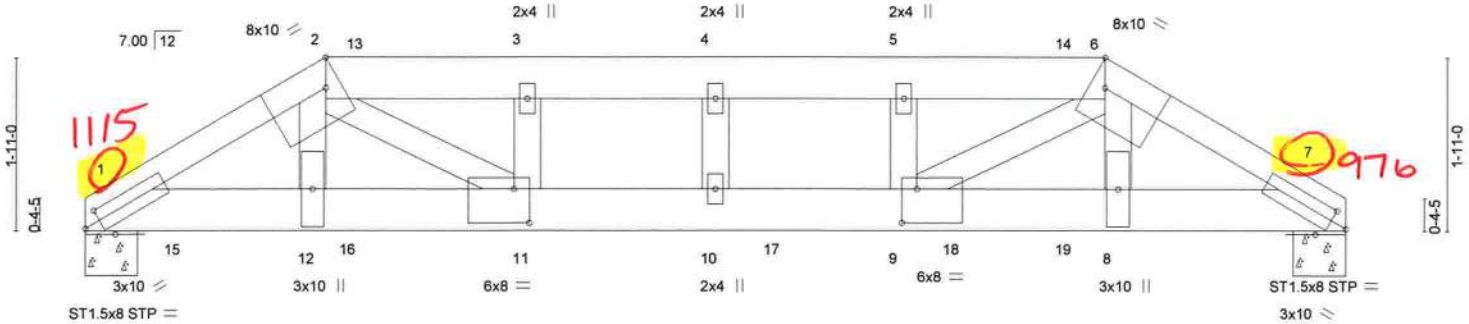


Plate Offsets (X,Y)-- [1:0-2-3,0-1-8], [2:0-2-0,Edge], [6:Edge,0-3-8], [7:0-2-3,0-1-8], [9:0-2-0,0-4-8], [11:0-2-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.11	10	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.28	10	>580		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.73	Horz(CT)	0.05	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						
								Weight: 155 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins.
BOT CHORD 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-11,6-9: 2x4 SP No.2	

REACTIONS. (size) 1=0-7-0, 7=0-7-0
 Max Horz 1=30(LC 7)
 Max Uplift 1=1115(LC 5), 7=976(LC 4)
 Max Grav 1=6933(LC 1), 7=5900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=10631/1780, 2-3=13947/2108, 3-4=13946/2107, 4-5=13946/2107,
 5-6=13947/2108, 6-7=10402/1739
 BOT CHORD 1-12=1506/8997, 11-12=1459/8786, 10-11=2090/13946, 9-10=2090/13946,
 8-9=1414/8602, 7-8=1457/8789
 WEBS 2-12=498/2172, 2-11=774/6228, 3-11=760/124, 4-10=111/620, 5-9=677/117,
 6-9=813/6448, 6-8=454/1912

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-11 2x4 - 2 rows staggered at 0-2-0 oc, member 4-10 2x4 - 2 rows staggered at 0-2-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft. Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1115, 7=976.



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

July 20,2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE</p> <p>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</p>	<p>6904 Parke East Blvd. Tampa, FL 33610</p>
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Job 1459442	Truss T1G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional) T24733685
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:19 2021 Page 2

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb up at 3-0-12, 23 lb up at 5-0-12, 23 lb up at 6-11-4, and 23 lb up at 8-11-4, and 133 lb up at 10-11-4 on top chord, and 1566 lb down and 209 lb up at 1-0-8, 936 lb down and 335 lb up at 2-8-0, 1370 lb down and 165 lb up at 2-11-12, 124 lb up at 3-0-12, 1381 lb down and 158 lb up at 4-11-12, 5 lb down at 5-0-12, 5 lb down at 6-11-4, 1381 lb down and 158 lb up at 6-11-12, 1381 lb down and 158 lb up at 7-8-4, 5 lb down at 8-11-4, 1381 lb down and 158 lb up at 9-8-4, 124 lb up at 10-11-4, and 936 lb down and 335 lb up at 11-4-0, and 1370 lb down and 165 lb up at 11-8-4 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: 1-2=-90, 2-6=-90, 6-7=-90, 1-7=-20

Concentrated Loads (lb)

Vert: 12=-936(F) 11=-1383(F=-3, B=-1381) 10=-1383(F=-3, B=-1381) 9=-3(F) 8=-2306(F=-936, B=-1370) 13=84(F) 14=84(F) 15=-1566(B) 16=-1278(F=91, B=-1370) 17=-1381(B) 18=-1381(B) 19=91(F)

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

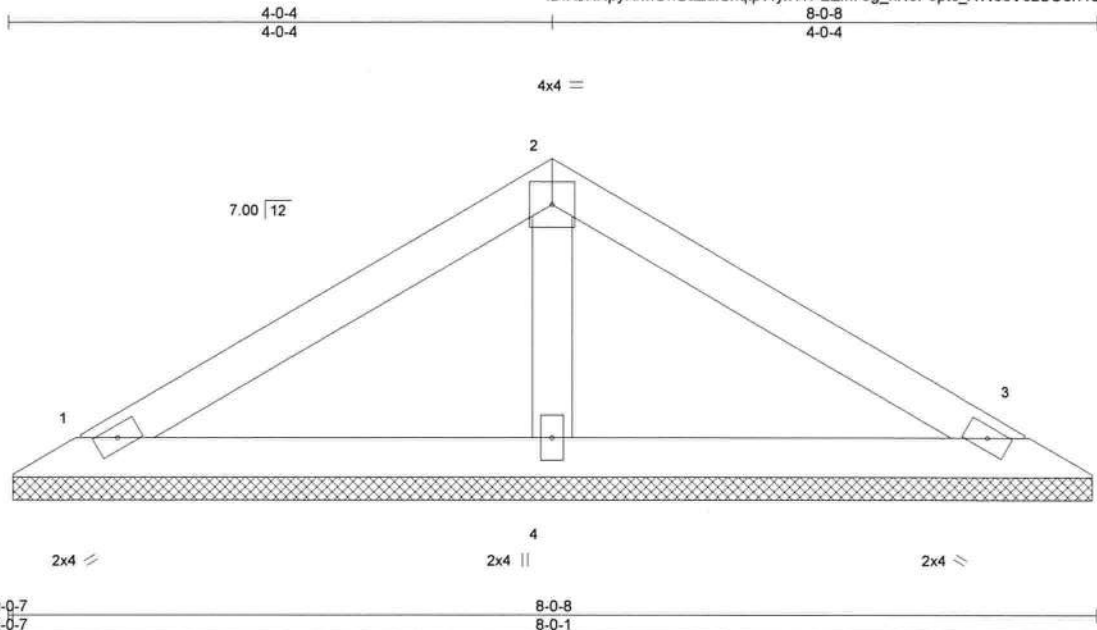
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 1459442	Truss VA2	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733687
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:21 2021 Page 1
 ID:XJKHpyKrMOkGaZufSxqtpWyxYl1-2Zfk78g_kNeP9ptc_XW06VozSO5n4Qk10CYMBJywQQm



Scale = 1:16.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 26 lb	FT = 20%
	Code FBC2020/TPI2014				

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-11-10, 3=7-11-10, 4=7-11-10
 Max Horz 1=-41(LC 10)
 Max Uplift 1=-35(LC 12), 3=-35(LC 12), 4=-13(LC 12)
 Max Grav 1=205(LC 1), 3=205(LC 1), 4=355(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-268/100

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-0-4, Exterior(2R) 4-0-4 to 7-0-4, Interior(1) 7-0-4 to 7-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

July 20,2021

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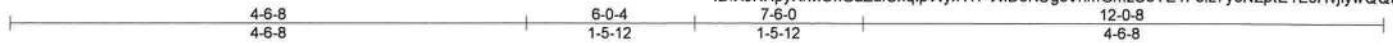
6904 Parke East Blvd.
 Tampa, FL 36610

Job 1459442	Truss VA3	Truss Type Valley	Qty 1	Ply 1	T24733688
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472,

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:22 2021 Page 1

ID: XJKHpyKrMOKGaZufSxqtpWyxYI1-WD6KUgcVhmGmzSoYE1Feil7yoNZptE1EsHvjlywQQI



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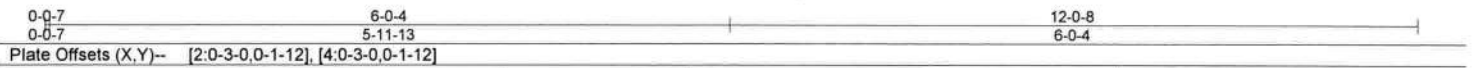
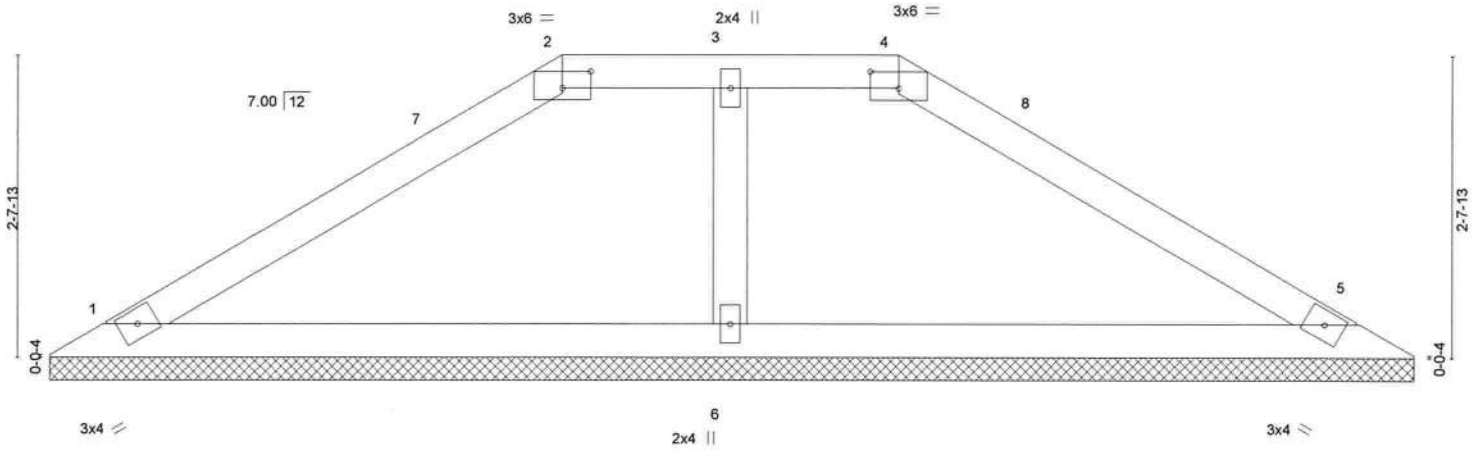


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-3-0,0-1-12]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.35	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH	Horz(CT) 0.01 5 n/a n/a		
				Weight: 39 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=11-11-10, 5=11-11-10, 6=11-11-10
 Max Horz 1=47(LC 11)
 Max Uplift 1=-69(LC 12), 5=-69(LC 12), 6=-4(LC 9)
 Max Grav 1=429(LC 1), 5=429(LC 1), 6=364(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-530/147, 2-3=-376/160, 3-4=-376/160, 4-5=-530/151
 BOT CHORD 1-6=-79/376, 5-6=-79/376

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-6-8, Exterior(2E) 4-6-8 to 11-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: July 20,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss VB1	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733689
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:23 2021 Page 1
ID: XJKHpyKrMokGaZufSxqtpWyxY11-_xmVXqhFG_u7O71?6xYUBwuN?CnHYK2ATW1TFBywQQk

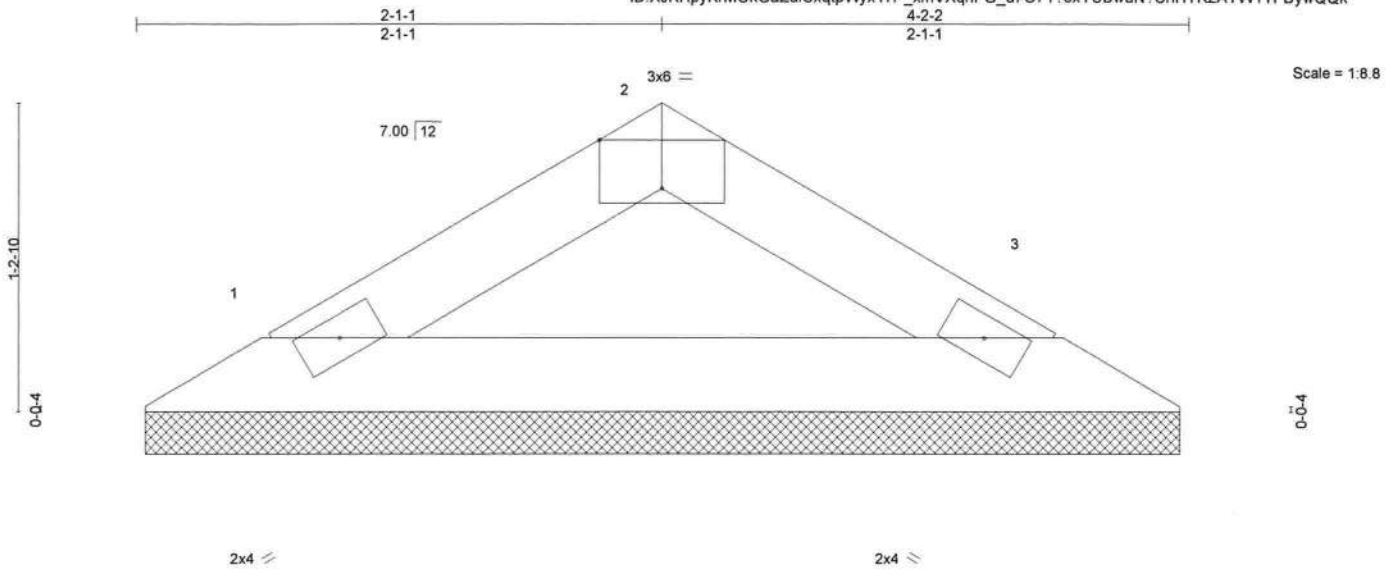


Plate Offsets (X,Y)--	0-0-7 0-0-7	4-2-2 4-1-11
	[2:0-3-0,Edge]	

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 25.0	Lumber DOL 1.25	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-1-5, 3=4-1-5
Max Horz 1=18(LC 10)
Max Uplift 1=19(LC 12), 3=19(LC 12)
Max Grav 1=170(LC 1), 3=170(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

July 20,2021

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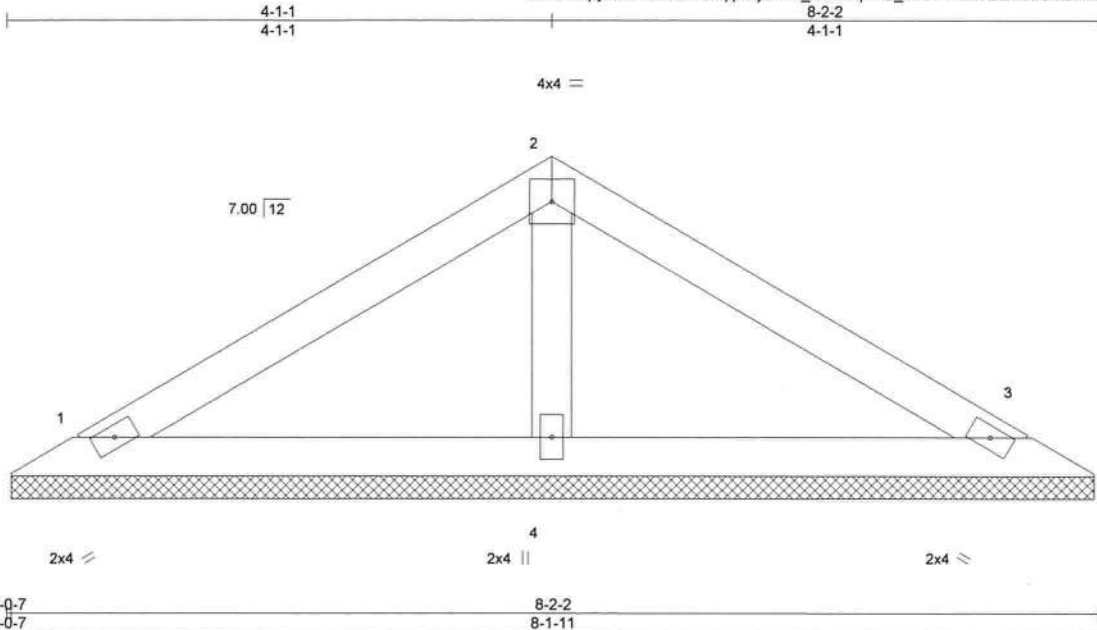
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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss VB2	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733690
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472. 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:23 2021 Page 1
 ID: XJKHpyKrMOKGaZufSxtpWyxY11_xmVXqhFG_u7O7176xYUBwullCmBYKDATW1TFBywQQk



Scale = 1:16.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P							
								Weight: 27 lb	FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-1-5, 3=8-1-5, 4=8-1-5
 Max Horz 1=-41(LC 10)
 Max Uplift 1=-36(LC 12), 3=-36(LC 12), 4=-13(LC 12)
 Max Grav 1=209(LC 1), 3=209(LC 1), 4=362(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-273/101


NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-1-1, Exterior(2R) 4-1-1 to 7-1-1, Interior(1) 7-1-1 to 7-7-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1, 3, 4.



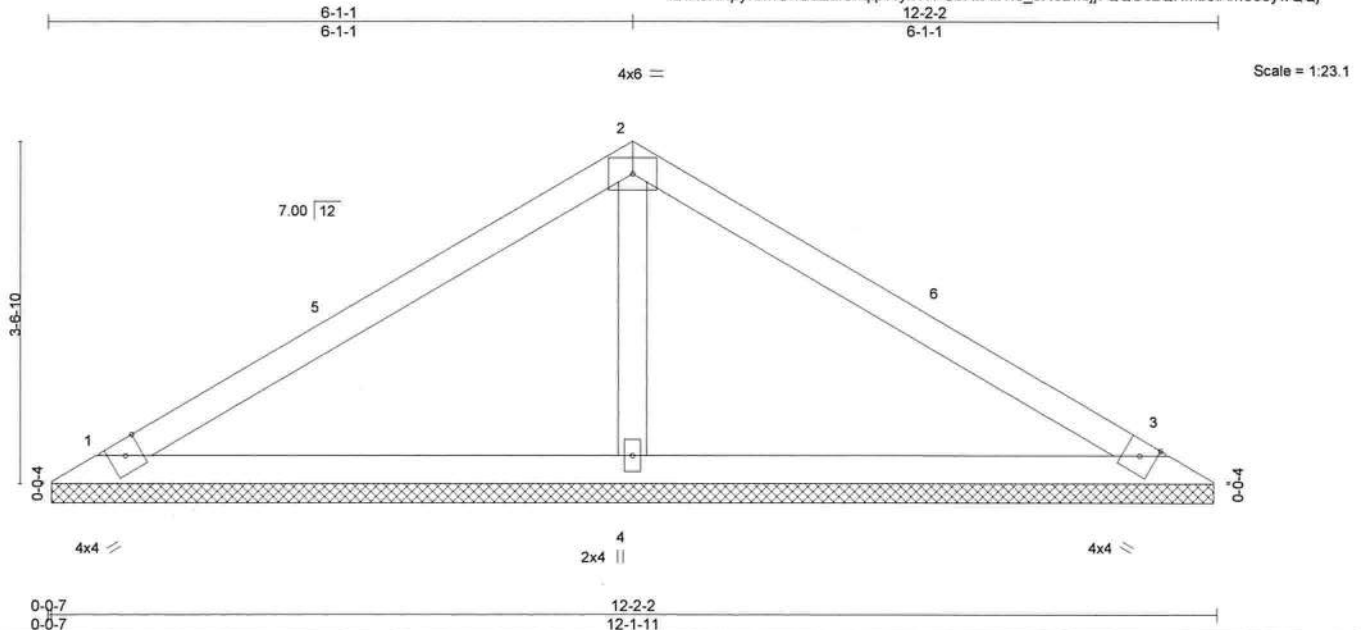
Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

July 20,2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE</p> <p>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 BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 <p>6904 Parke East Blvd. Tampa, FL 33610</p>
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Job 1459442	Truss VB3	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733691
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:24 2021 Page 1
 ID: XJKHpyKrMOKGaZufSxqtpWyxY11-SBKlAit110_0HcBff3jj7QQOc2QHmbJIAm0oeywQQj



LOADING (psf) TCLL 20.0 TCDL 25.0 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 0.53 BC 0.39 WB 0.11 Matrix-SH	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 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 41 lb FT = 20%
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LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=12-1-5, 3=12-1-5, 4=12-1-5
 Max Horz 1=65(LC 11)
 Max Uplift 1=-41(LC 12), 3=-41(LC 12), 4=-51(LC 12)
 Max Grav 1=288(LC 21), 3=288(LC 22), 4=647(LC 1)

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

WEBS 2-4=-431/112

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=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-1-1, Exterior(2R) 6-1-1 to 9-1-1, Interior(1) 9-1-1 to 11-7-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1, 3, 4.



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

July 20,2021

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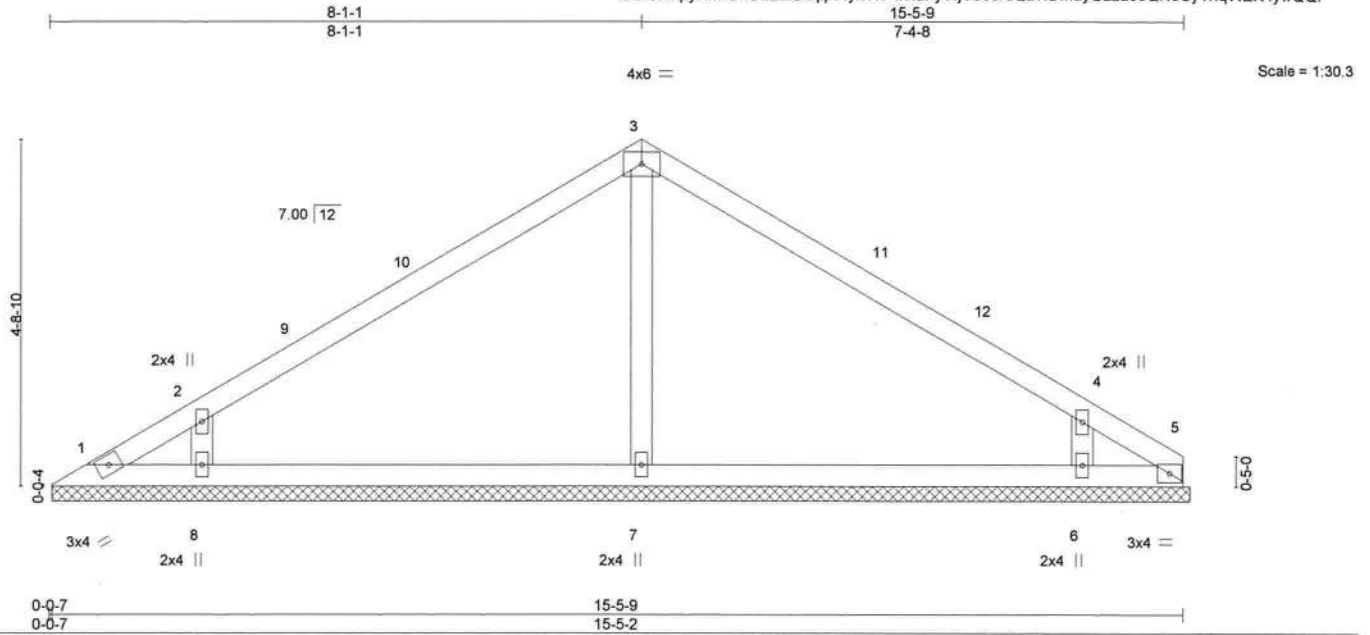
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6904 Parke East Blvd.
 Tampa, FL 33610

Job 1459442	Truss VB4	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733692
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472. 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:25 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqtpWyxY11-wKuFyWJWoc8rdQBNDMAYGLZa60QNOCyTxqWZK4ywQQi



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.28	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.17	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 57 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-6-5.
(lb) - Max Horz 1=88(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=110(LC 17), 5=132(LC 18), 8=135(LC 12), 6=141(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=549(LC 1), 8=648(LC 21), 6=664(LC 22)

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

WEBS 3-7=-419/70, 2-8=-585/230, 4-6=-606/243

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-1-1, Exterior(2R) 8-1-1 to 11-1-1, Interior(1) 11-1-1 to 15-5-9 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=110, 5=132, 8=135, 6=141.



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Date:

July 20,2021

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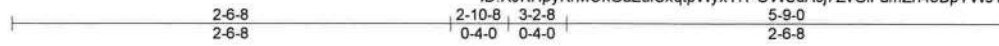


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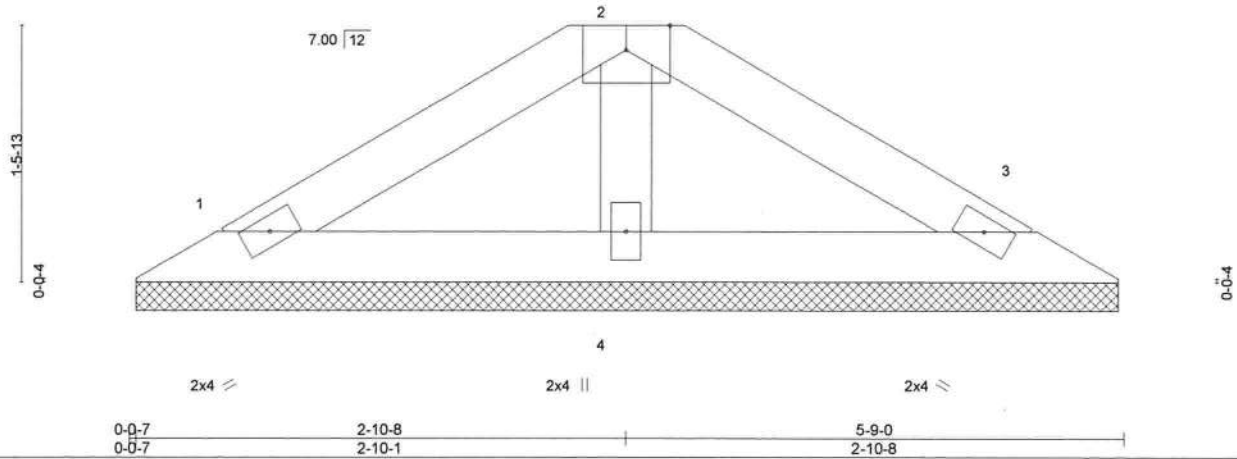
Job 1459442	Truss VC1	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733693
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:26 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxY11-OWSdAsj7ZvGiFamZn45BpYWs1Pq0lhGc9UF7sWYwQQh



Scale = 1:12.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-8-2, 3=5-8-2, 4=5-8-2
 Max Horz 1=-27(LC 10)
 Max Uplift 1=-24(LC 12), 3=-24(LC 12), 4=-9(LC 12)
 Max Grav 1=138(LC 1), 3=138(LC 1), 4=238(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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July 20,2021

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 Tampa, FL 36610

Job 1459442	Truss VC2	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733694
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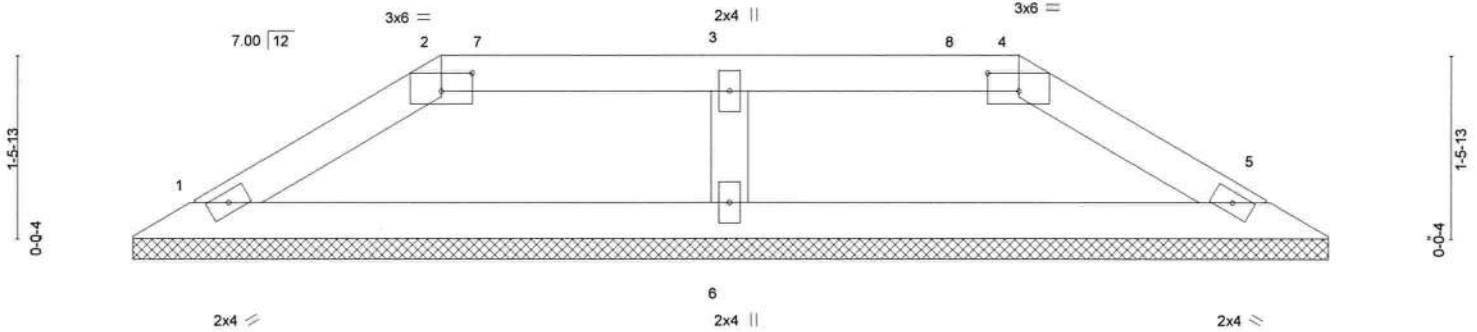
Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:27 2021 Page 1

ID: XJKHpyKrMokGaZufSxqtpWyxY11-sj0?NckIKDOZtkLmLndQLm21dp6_U8HmO8?gOyywQQg



Scale = 1:18.0



0-0-7	4-10-8	9-9-0
0-0-7	4-10-1	4-10-8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.20	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 30 lb	FT = 20%

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

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

REACTIONS. (size) 1=9-8-2, 5=9-8-2, 6=9-8-2
 Max Horz 1=24(LC 11)
 Max Uplift 1=40(LC 12), 5=40(LC 12), 6=39(LC 9)
 Max Grav 1=287(LC 1), 5=287(LC 1), 6=379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-364/106, 2-3=-282/108, 3-4=-282/108, 4-5=-364/106
 BOT CHORD 1-6=-62/282, 5-6=-62/282
 WEBS 3-6=-266/92

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 2-6-8, Exterior(2R) 2-6-8 to 6-9-7, Interior(1) 6-9-7 to 7-2-8, Exterior(2E) 7-2-8 to 9-2-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6.



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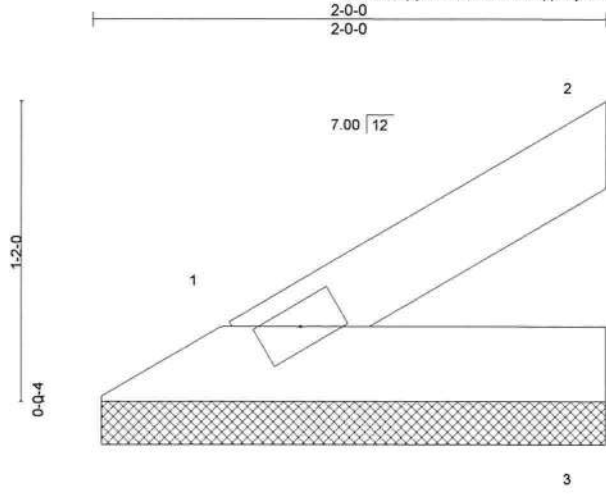
July 20,2021

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 Tampa, FL 33610

Job 1459442	Truss VK1	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733695
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:27 2021 Page 1
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Scale = 1:8.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 5 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-11-9, 2=1-11-9, 3=1-11-9
 Max Horz 1=25(LC 12)
 Max Uplift 1=-2(LC 12), 2=-22(LC 12)
 Max Grav 1=80(LC 1), 2=66(LC 17), 3=29(LC 3)


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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.



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 Date: July 20,2021

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 Tampa, FL 33610

Job 1459442	Truss VK2	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T24733696
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Builders FirstSource (Lady Lake, FL),

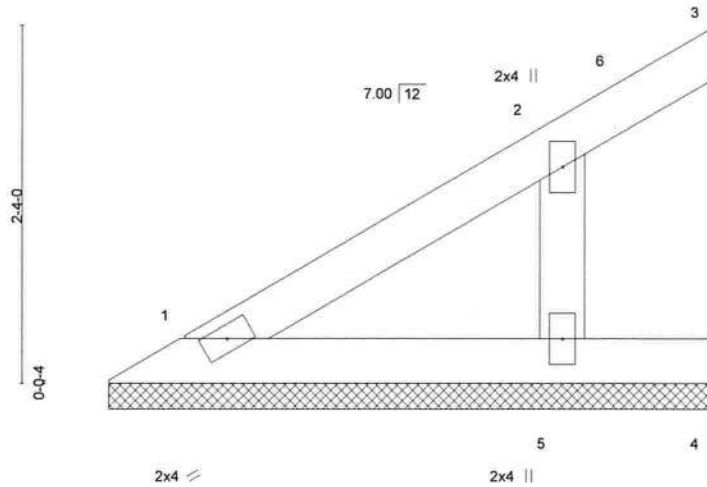
Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:28 2021 Page 1

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Scale = 1:14.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P						
								Weight: 14 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-11-9, 3=3-11-9, 4=3-11-9, 5=3-11-9
 Max Horz 1=58(LC 12)
 Max Uplift 3=-4(LC 1), 4=-3(LC 3), 5=-54(LC 12)
 Max Grav 1=111(LC 1), 3=1(LC 12), 5=276(LC 17)

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; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 5.



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 Date:

July 20,2021

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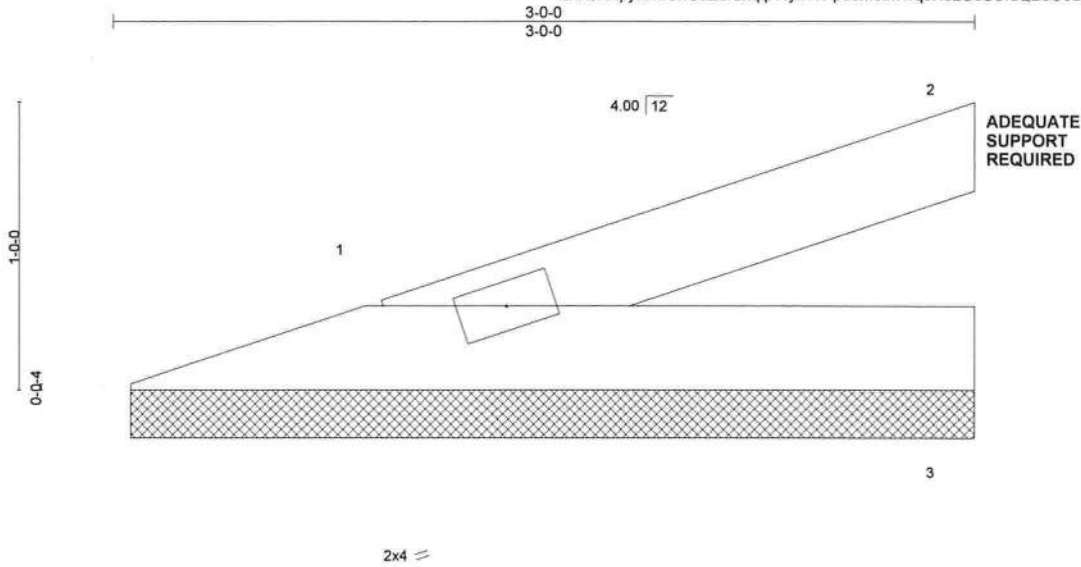
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 Tampa, FL 33610

Job 1459442	Truss VL1	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T24733697
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:29 2021 Page 1
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Scale = 1:7.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 8 lb	FT = 20%

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

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

REACTIONS. (size) 1=2-11-4, 2=2-11-4, 3=2-11-4
 Max Horz 1=20(LC 12)
 Max Uplift 1=9(LC 12), 2=-24(LC 12)
 Max Grav 1=113(LC 1), 2=93(LC 1), 3=41(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANS/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) 1, 2.



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 Date:

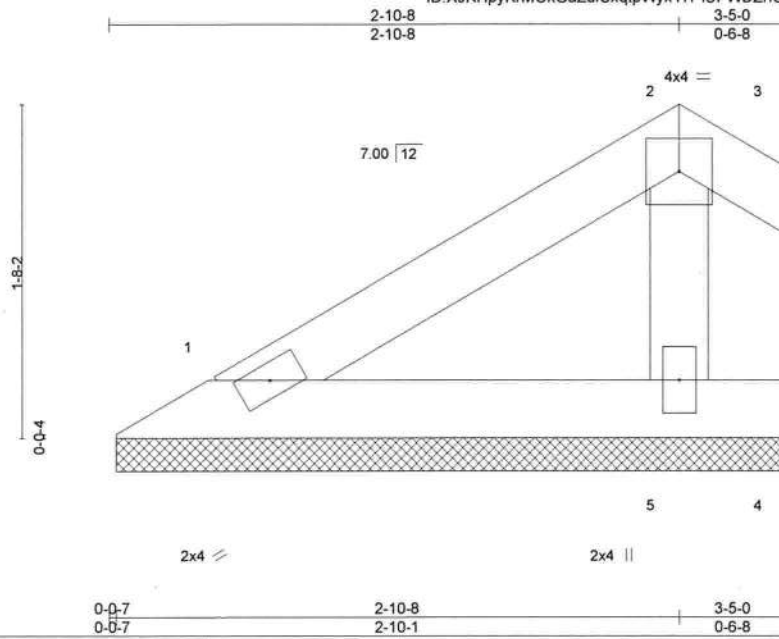
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 Tampa, FL 36610

Job 1459442	Truss VM1	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T24733700
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Scale = 1:11.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-P					Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-4-9, 3=3-4-9, 4=3-4-9, 5=3-4-9
Max Horz 1=30(LC 12)
Max Uplift 1=-10(LC 12), 3=-8(LC 12), 4=-30(LC 3), 5=-10(LC 12)
Max Grav 1=124(LC 1), 3=24(LC 18), 5=184(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4, 5.



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July 20,2021

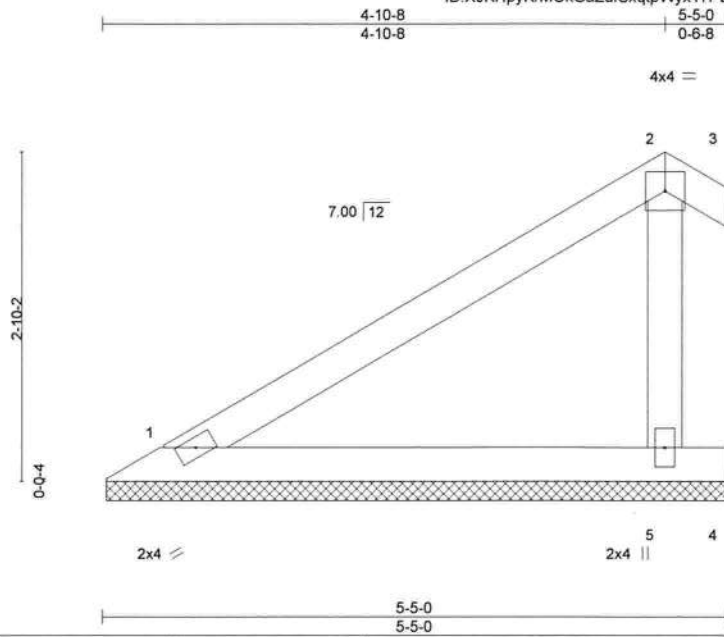
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 5/19/2020 BEFORE USE.
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6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss VM2	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T24733701
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:32 2021 Page 1
ID: XJKHpyKrMOKGaZufSxqtPWyxY11-DgguQvou81rzVD7KCb2plojq9PYVYQIR4AyywQQb



Scale = 1:19.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 20 lb	FT = 20%

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

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

REACTIONS. (size) 1=5-4-9, 3=5-4-9, 4=5-4-9, 5=5-4-9
Max Horz 1=64(LC 12)
Max Uplift 1=-14(LC 12), 3=-8(LC 12), 4=-144(LC 3), 5=-6(LC 12)
Max Grav 1=229(LC 1), 3=24(LC 18), 5=393(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-10-8, Exterior(2E) 4-10-8 to 5-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 5 except (jt=lb) 4=144.



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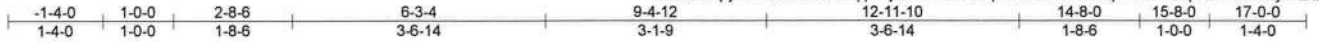
July 20,2021

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Tampa, FL 33610

Job 1459442	Truss W1G	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T24733702
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:33 2021 Page 1
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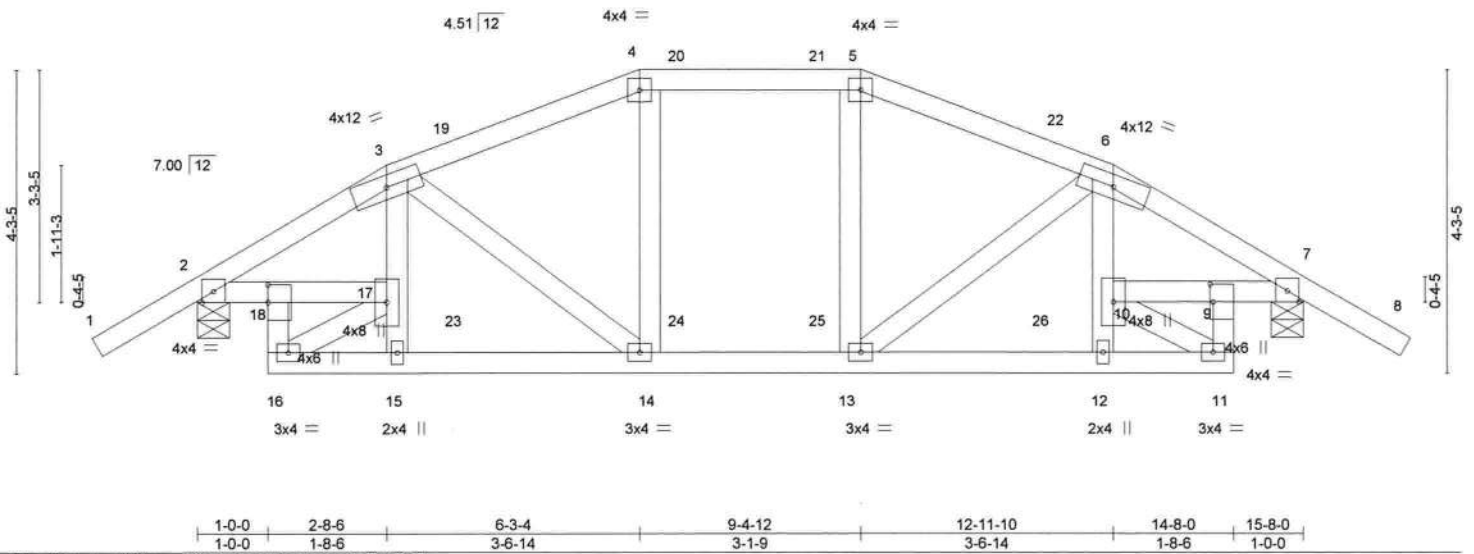


Plate Offsets (X,Y)-- [9:0-3-0,0-0-8], [18:0-3-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.03	14-15	>999	MT20	244/190
TCDL 25.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.06	14	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						
								Weight: 96 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 16-18,9-11: 2x4 SP No.3
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 7=0-5-8
 Max Horz 2=-65(LC 6)
 Max Uplift 2=-191(LC 8), 7=-191(LC 8)
 Max Grav 2=1300(LC 2), 7=1300(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1222/147, 3-4=-1353/194, 4-5=-1221/195, 5-6=-1353/194, 6-7=-1222/147
 BOT CHORD 2-18=-73/998, 17-18=-63/818, 16-18=-31/459, 15-16=-65/901, 14-15=-67/946,
 13-14=-90/1221, 12-13=-64/946, 11-12=-62/901, 9-11=-31/459, 9-10=-60/818,
 7-9=-70/998
 WEBS 3-17=-313/61, 3-14=-51/369, 6-13=-52/369, 6-10=-313/61, 16-17=-836/63,
 10-11=-836/63

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 7=191.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 36 lb up at 2-8-6, 46 lb down and 46 lb up at 3-8-1, 116 lb down and 77 lb up at 6-3-4, 92 lb down and 71 lb up at 6-10-0, 92 lb down and 71 lb up at 8-10-0, 116 lb down and 77 lb up at 9-4-12, and 46 lb down and 46 lb up at 11-11-15, and 27 lb down and 36 lb up at 12-11-10 on top chord, and 1 lb up at 2-10-2, 7 lb down at 3-8-1, 56 lb down at 6-3-4, 49 lb down at 6-10-0, 49 lb down at 8-10-0, 56 lb down at 9-4-12, and 7 lb down at 11-11-15, and 1 lb up at 12-9-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1459442	W1G	Hip Girder	1	1	T24733702

Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:33 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-5=-90, 5-6=-90, 6-8=-90, 2-18=-20, 11-16=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-93(F) 5=-93(F) 17=1(F) 14=-51(F) 13=-51(F) 12=1(F) 20=-83(F) 21=-83(F) 23=-7(F) 24=-40(F) 25=-40(F) 26=-7(F)

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Tampa, FL 36610

Job 1459442	Truss W2	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T24733703
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:34 2021 Page 1
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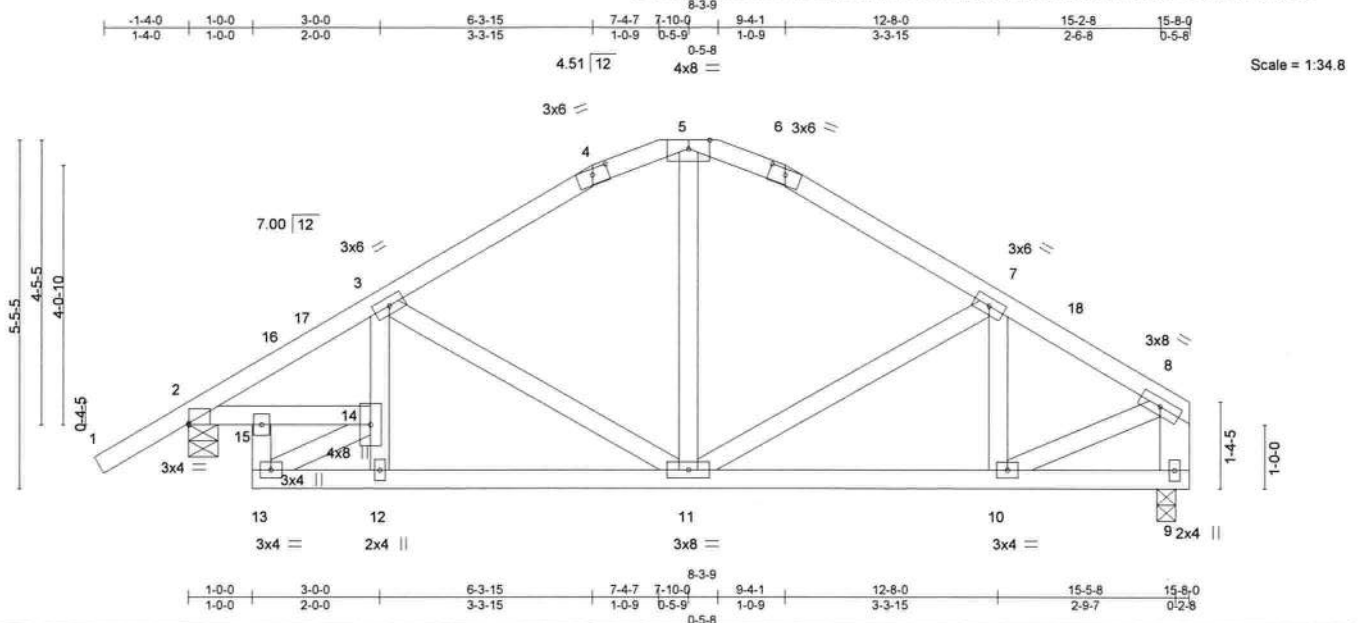


Plate Offsets (X,Y)-- [2:Edge,0-0-4], [4:0-3-0,0-1-2], [6:0-3-0,0-1-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.45	Vert(LL) -0.02 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.28	Vert(CT) -0.04 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 96 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-15: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

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.

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=92(LC 11)
Max Uplift 2=-153(LC 12), 9=-88(LC 12)
Max Grav 2=992(LC 1), 9=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-868/180, 3-4=-801/202, 4-5=-654/214, 5-6=-654/219, 6-7=-801/210, 7-8=-874/184, 8-9=-801/177
BOT CHORD 2-15=-146/699, 14-15=-123/584, 13-15=-67/315, 12-13=-140/662, 11-12=-144/686, 10-11=-135/713
WEBS 5-11=-31/295, 13-14=-620/133, 8-10=-144/737

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-14 to 1-7-2, Interior(1) 1-7-2 to 6-3-15, Exterior(2E) 6-3-15 to 9-4-1, Exterior(2R) 9-4-1 to 13-7-0, Interior(1) 13-7-0 to 15-5-4 zone; cantilever left and right exposed; :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=153.



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Job 1459442	Truss W3G	Truss Type Roof Special Girder	Qty 1	Ply 2	Job Reference (optional) T24733704
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:35 2021 Page 1

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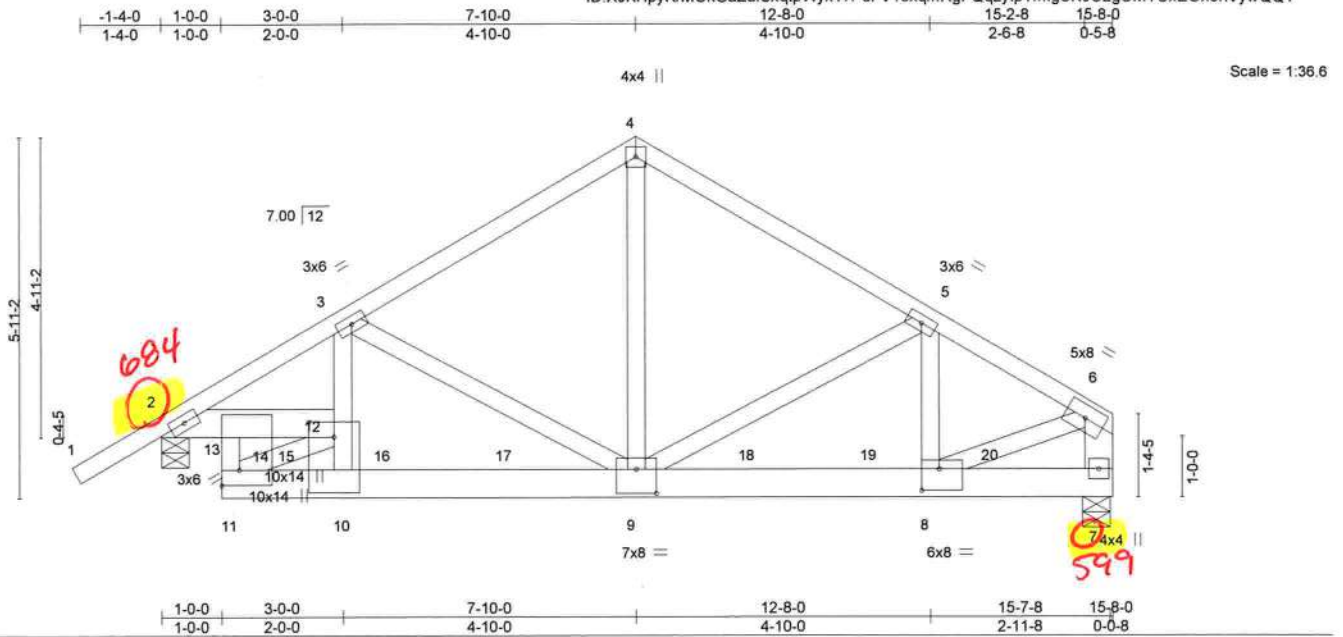


Plate Offsets (X, Y)-- [8:0-3-8,0-4-4], [9:0-4-0,0-4-12], [12:0-3-0,0-5-0], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.94	Vert(LL) -0.05 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Vert(CT) -0.13 9-10 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 219 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26 *Except*
11-13: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-7: 2x6 SP No.2, 6-8: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 7=0-5-8
Max Horz 2=102(LC 7)
Max Uplift 2=684(LC 8), 7=599(LC 8)
Max Grav 2=6024(LC 1), 7=5676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6405/672, 3-4=-5398/609, 4-5=-5394/609, 5-6=-6358/682, 6-7=-5289/567
BOT CHORD 2-13=-554/5449, 12-13=-469/4568, 11-13=-225/2187, 10-11=-540/5286, 9-10=-549/5389,
8-9=-567/5439, 7-8=-41/392
WEBS 3-9=-981/138, 4-9=-508/4884, 5-9=-1037/158, 5-8=-259/747, 6-8=-565/5428,
10-12=-182/1983, 3-12=-283/796, 11-12=-5005/517

- NOTES-**
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=684, 7=599.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1411 lb down and 161 lb up at 1-8-0, 1411 lb down and 161 lb up at 3-8-0, 1411 lb down and 161 lb up at 5-8-0, 1411 lb down and 161 lb up at 7-8-0, 1411 lb down and 161 lb up at 9-8-0, and 1411 lb down and 161 lb up at 11-8-0, and 1411 lb down and 161 lb up at 13-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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July 20,2021

LOAD CASE(S) Standard

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Job 1459442	Truss W3G	Truss Type Roof Special Girder	Qty 1	Ply 2	Job Reference (optional) T24733704
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8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:35 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 2-13=-20, 7-11=-20

Concentrated Loads (lb)

Vert: 9=-1411(B) 14=-1411(B) 16=-1411(B) 17=-1411(B) 18=-1411(B) 19=-1411(B) 20=-1411(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 38610

Job 1459442	Truss Z1G	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T24733705
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472.

8 430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:37 2021 Page 1
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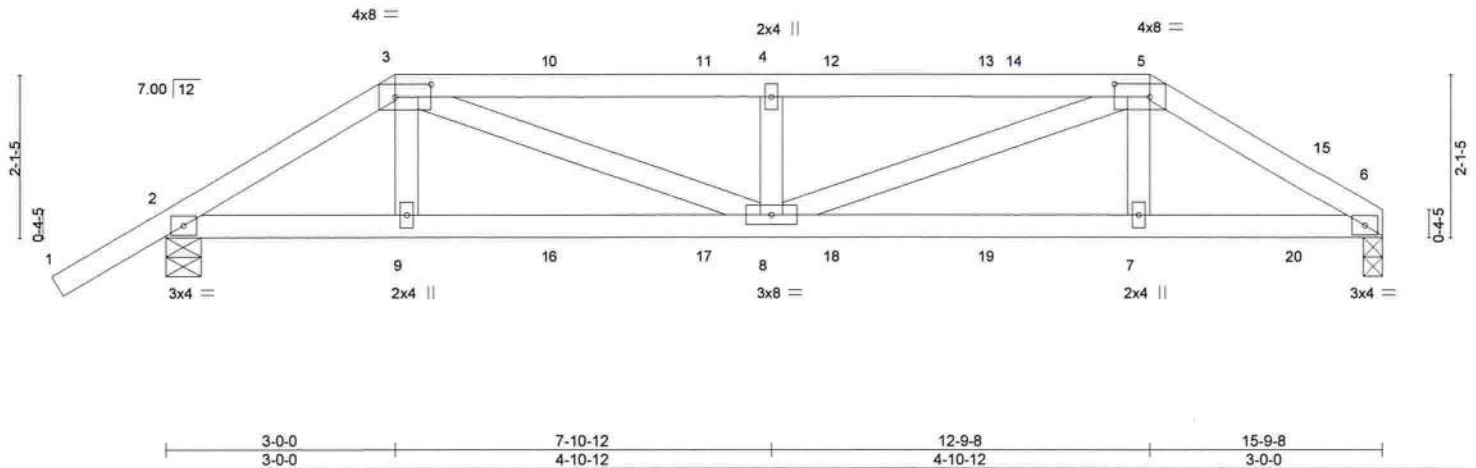


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0], [5:0-5-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.40	Vert(LL) -0.04 8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.36	Vert(CT) -0.12 8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2020/TPI2014			Weight: 72 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-0, 2=0-5-8
Max Horz 2=48(LC 7)
Max Uplift 6=-105(LC 5), 2=-182(LC 8)
Max Grav 6=864(LC 1), 2=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1283/218, 3-4=-1902/324, 4-5=-1902/324, 5-6=-1435/196
BOT CHORD 2-9=-175/1015, 8-9=-172/1023, 7-8=-149/1173, 6-7=-152/1164
WEBS 3-8=-150/946, 4-8=-488/158, 5-8=-164/795

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=105, 2=182.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb up at 3-0-0, 15 lb up at 5-0-12, 15 lb up at 7-0-12, 15 lb up at 8-8-12, 15 lb up at 10-8-12, and 17 lb down and 38 lb up at 12-9-8, and 39 lb down and 43 lb up at 14-8-12 on top chord, and 32 lb down at 3-0-0, 14 lb down at 5-0-12, 14 lb down at 7-0-12, 14 lb down at 8-8-12, 14 lb down at 10-8-12, and 16 lb down at 12-8-12, and 13 lb down at 14-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-90, 3-5=-90, 5-6=-90, 2-6=-20
Concentrated Loads (lb)
Vert: 3=73(B) 9=-16(B) 7=-8(B) 16=-7(B) 17=-7(B) 18=-7(B) 19=-7(B) 20=-13(B)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: July 20, 2021

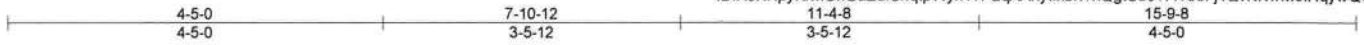
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss Z2G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional) T24733706
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Builders FirstSource (Lady Lake, FL), Lady Lake, FL - 34472, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:38 2021 Page 1

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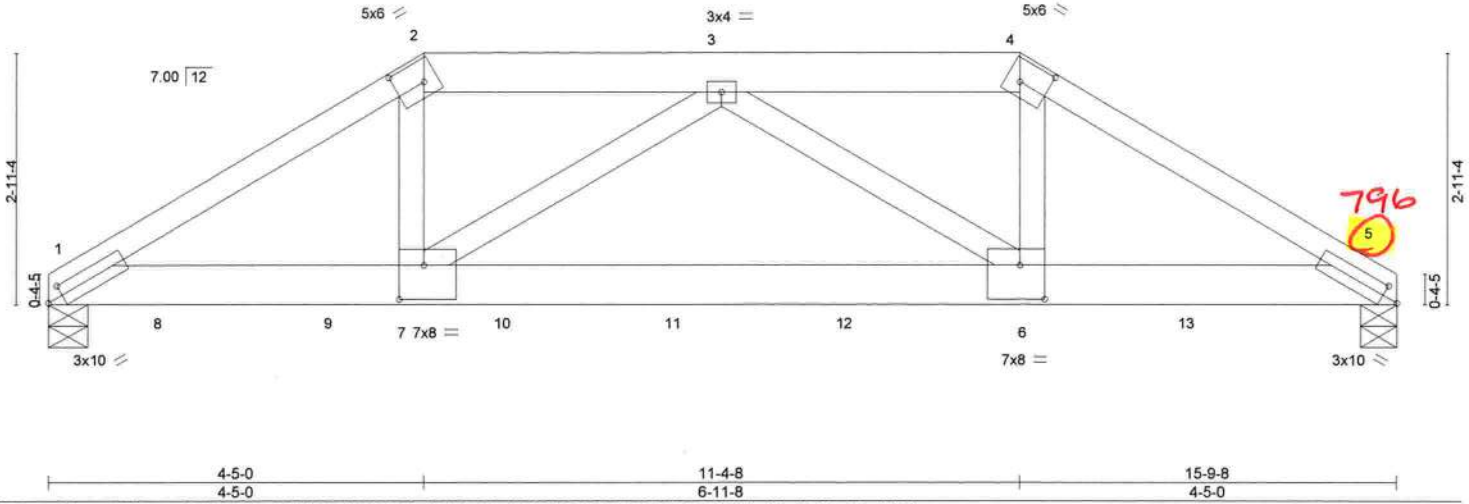


Plate Offsets (X,Y)-- [1:0-2-3,0-1-8], [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-2-3,0-1-8], [6:0-3-8,0-4-12], [7:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 25.0	Plate Grip DOL 1.25	BC 0.84	Vert(LL) -0.14 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.37 6-7 >496 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.05 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-4: 2x6 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 5=0-5-0
Max Horz 1=50(LC 24)
Max Uplift 1=691(LC 8), 5=796(LC 8)
Max Grav 1=6022(LC 1), 5=6946(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=10068/1146, 2-3=8274/979, 3-4=8260/978, 4-5=10045/1144
BOT CHORD 1-7=956/8552, 6-7=991/8535, 5-6=936/8538
WEBS 2-7=524/4830, 3-7=376/107, 3-6=392/108, 4-6=522/4810

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=691, 5=796.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1383 lb down and 172 lb up at 1-4-12, 1383 lb down and 172 lb up at 3-4-12, 1383 lb down and 172 lb up at 5-4-12, 1483 lb down and 172 lb up at 7-4-12, 1473 lb down and 169 lb up at 9-4-12, 1454 lb down and 181 lb up at 11-4-12, and 1454 lb down and 181 lb up at 13-4-12, and 1462 lb down and 173 lb up at 15-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



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

July 20,2021

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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
Tampa, FL 33610

Job 1459442	Truss Z2G	Truss Type Hip Girder	Qty 1	Ply 2	Job Reference (optional) T24733706
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Builders FirstSource (Lady Lake, FL),

Lady Lake, FL - 34472,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jul 19 18:14:38 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-90, 2-4=-90, 4-5=-90, 1-5=-20

Concentrated Loads (lb)

Vert: 5=-1462(F) 6=-1454(F) 8=-1383(F) 9=-1383(F) 10=-1383(F) 11=-1383(F) 12=-1378(F) 13=-1454(F)

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

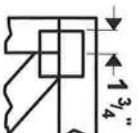
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



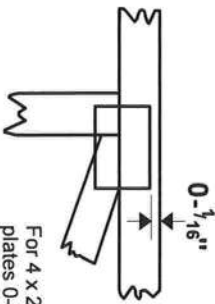
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Tampa, FL 35610

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 X 4

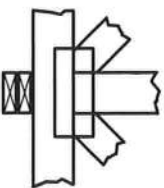
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or L bracing if indicated.

BEARING



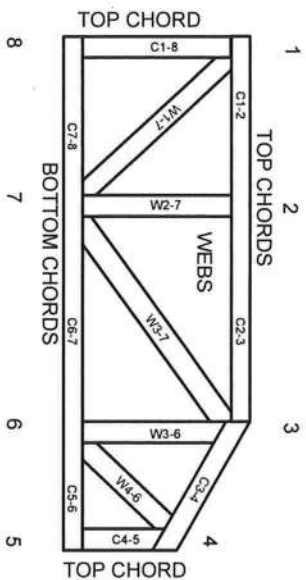
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Torl bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purflins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.