

RE: 6250760
2117-CR-14x10 Lamai-Frame

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer: Adams Homes-Gainesville Project Name: 6250760
Lot/Block: 012 Model: 2117-CR-14x10 Lamai-Frame
Address: 133 SW Bellflower Dr Subdivision: The Preserve at Laurel Lake
City: Lake City State: FL

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

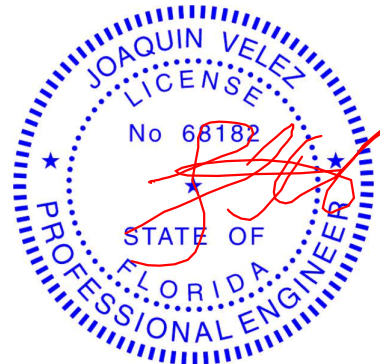
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34550335	A01	7/26/2024	21	T34550355	B02	7/26/2024
2	T34550336	A02	7/26/2024	22	T34550356	B03	7/26/2024
3	T34550337	A03	7/26/2024	23	T34550357	C1	7/26/2024
4	T34550338	A04	7/26/2024	24	T34550358	C1L	7/26/2024
5	T34550339	A05	7/26/2024	25	T34550359	C3	7/26/2024
6	T34550340	A06	7/26/2024	26	T34550360	C3L	7/26/2024
7	T34550341	A07	7/26/2024	27	T34550361	C3T	7/26/2024
8	T34550342	A08	7/26/2024	28	T34550362	C5	7/26/2024
9	T34550343	A09	7/26/2024	29	T34550363	C5T	7/26/2024
10	T34550344	A09A	7/26/2024	30	T34550364	D01	7/26/2024
11	T34550345	A10	7/26/2024	31	T34550365	D01X	7/26/2024
12	T34550346	A11	7/26/2024	32	T34550366	E5L	7/26/2024
13	T34550347	A12	7/26/2024	33	T34550367	E7	7/26/2024
14	T34550348	A13	7/26/2024	34	T34550368	E7T	7/26/2024
15	T34550349	A14	7/26/2024	35	T34550369	G01X	7/26/2024
16	T34550350	A15	7/26/2024	36	T34550370	G02	7/26/2024
17	T34550351	A16	7/26/2024	37	T34550371	G03	7/26/2024
18	T34550352	A17	7/26/2024	38	T34550372	GV1	7/26/2024
19	T34550353	B01	7/26/2024	39	T34550373	GV2	7/26/2024
20	T34550354	B01X	7/26/2024	40	T34550374	GV3	7/26/2024

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Tibbetts Lumber Co., LLC.
Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2027.
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26, 2024



RE: 6250760 - 2117-CR-14x10 Lamai-Frame

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Project Customer: Adams Homes-Gainesville Project Name: 6250760
Lot/Block: 012 Subdivision: The Preserve at Laurel Lake
Address: 133 SW Bellflower Dr
City, County: Lake City State: FL

No.	Seal#	Truss Name	Date
41	T34550375	GV4	7/26/2024
42	T34550376	H5L	7/26/2024
43	T34550377	H7	7/26/2024
44	T34550378	H7T	7/26/2024
45	T34550379	L01	7/26/2024
46	T34550380	L02	7/26/2024
47	T34550381	LV1	7/26/2024
48	T34550382	LV2	7/26/2024
49	T34550383	LV3	7/26/2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550335
6250760	A01	Half Hip Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),		Ocala, FL - 34472,	8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:41 2024 Page 1			
-2-0-0		4-9-12	7-0-0	14-0-14	21-0-0	ID:LVgrdrRfc_J_b2qMEUJE7yRHSa-1AGL0dMptwqXRafLjC76pmTzO2kvlW24zBr3p2yuX0S
2-0-0		4-9-12	2-2-4	7-0-14	6-11-2	27-11-2
					6-11-2	35-0-0
						7-0-14

Scale = 1:62.3

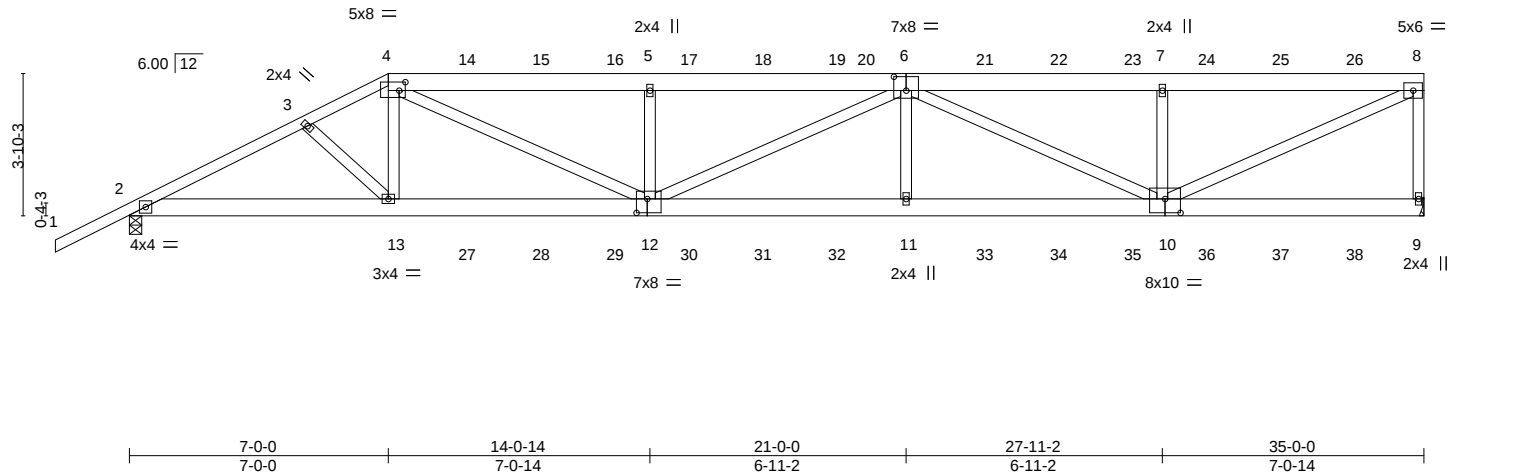


Plate Offsets (X,Y)--		[4:0-2-0,0-2-12], [6:0-4-0,0-4-8], [10:0-5-0,0-4-8], [12:0-3-8,0-4-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC	0.41
	BC	0.70
	WB	0.59
	Matrix-S	
	DEFL.	
	in (loc)	I/defl
	Vert(LL)	-0.20 11-12 >999 360
	Vert(CT)	-0.42 11-12 >982 240
	Horz(CT)	0.09 9 n/a n/a
	Wind(LL)	0.14 11-12 >999 240
	PLATES	GRIP
	MT20	244/190
	Weight: 464 lb	FT = 20%

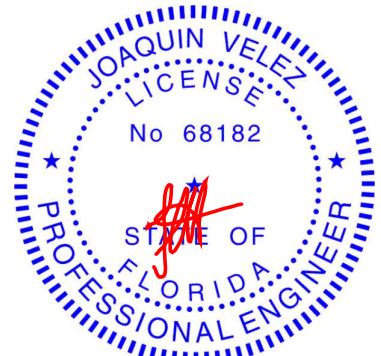
LUMBER-	BRAACING-
TOP CHORD	2x6 SP No.2 *Except*
	1-4: 2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
	TOP CHORD
	Structural wood sheathing directly applied or 5-4-9 oc purlins, except end verticals.
	BOT CHORD
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 2=0-4-0
Max Horz 2=119(LC 8)
Max Uplift 9=192(LC 8), 2=177(LC 8)
Max Grav 9=2791(LC 1), 2=2708(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5255/224, 3-4=-5133/219, 4-5=-7152/447, 5-6=-7170/452, 6-7=-4815/333, 7-8=-4796/326, 8-9=-2659/253
BOT CHORD 2-13=-240/4615, 12-13=-202/4637, 11-12=-472/7137, 10-11=-472/7137
WEBS 4-13=0/680, 4-12=-271/2840, 5-12=-940/299, 6-11=0/599, 6-10=-2580/155, 7-10=-906/302, 8-10=-358/5269

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 0-9-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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.
- 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) 9=192, 2=177.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550335
6250760	A01	Half Hip Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:41 2024 Page 2
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-1AGL0dMptwqXRafLjC76pmTzO2kvIW24zBr3p2yuX0S

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 86 lb up at 7-0-0, 122 lb down and 83 lb up at 9-0-12, 122 lb down and 83 lb up at 11-0-12, 122 lb down and 83 lb up at 13-0-12, 122 lb down and 83 lb up at 15-0-12, 122 lb down and 83 lb up at 17-0-12, 122 lb down and 83 lb up at 19-0-12, 122 lb down and 83 lb up at 21-0-12, 122 lb down and 83 lb up at 23-0-12, 122 lb down and 83 lb up at 25-0-12, 122 lb down and 83 lb up at 27-0-12, 122 lb down and 83 lb up at 29-0-12, and 122 lb down and 83 lb up at 31-0-12, and 122 lb down and 83 lb up at 33-0-12 on top chord, and 310 lb down at 7-0-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 95 lb down at 13-0-12, 95 lb down at 15-0-12, 95 lb down at 17-0-12, 95 lb down at 19-0-12, 95 lb down at 21-0-12, 95 lb down at 23-0-12, 95 lb down at 25-0-12, 95 lb down at 27-0-12, 95 lb down at 29-0-12, and 95 lb down at 31-0-12, and 95 lb down at 33-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-122(F) 13=-262(F) 6=-122(F) 11=-48(F) 14=-122(F) 15=-122(F) 16=-122(F) 17=-122(F) 18=-122(F) 19=-122(F) 21=-122(F) 22=-122(F) 23=-122(F) 24=-122(F) 25=-122(F) 26=-122(F) 27=-48(F) 28=-48(F) 29=-48(F) 30=-48(F) 31=-48(F) 32=-48(F) 33=-48(F) 34=-48(F) 35=-48(F) 36=-48(F) 37=-48(F) 38=-48(F)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550336
6250760	A02	Half Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:42 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-VNqjEzMSeY02kEYHweLM_?4jS491?XECracLUyuX0R
-2-0-0 6-4-13 9-0-0 15-6-14 22-0-0 28-5-2 35-0-0
2-0-0 6-4-13 2-7-4 6-6-14 6-5-2 6-5-2 6-6-14

Scale = 1:62.3

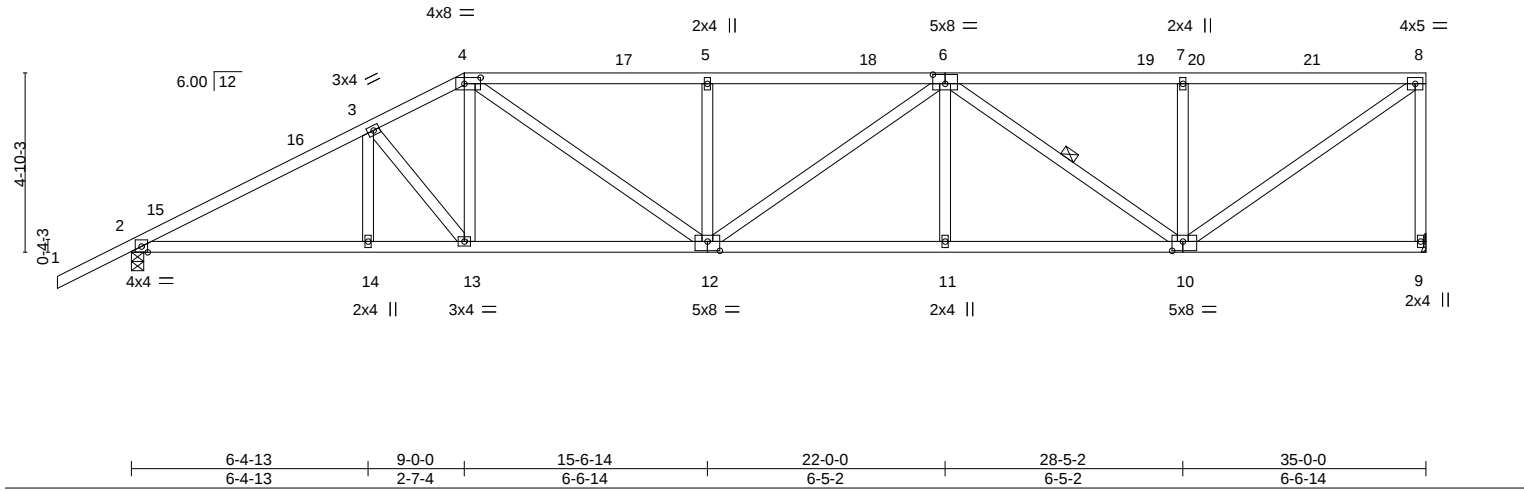


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-4-0,0-3-0], [10:0-3-8,0-3-0], [12:0-4-0,0-3-0]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.70	in (loc) l/defl L/d	GRIP
TCDL	10.0	Lumber DOL	1.25	BC 0.69	Vert(LL) -0.17 11-12 >999 360	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.45	Vert(CT) -0.36 11-12 >999 240	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S	Horz(CT) 0.11 9 n/a n/a	
					Wind(LL) 0.11 11-12 >999 240	Weight: 196 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-2 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.2	WEBS	1 Row at midpt 6-10

REACTIONS. (size) 9=Mechanical, 2=0-4-0
Max Horz 2=144(LC 12)
Max Uplift 9=-65(LC 12), 2=-117(LC 12)
Max Grav 9=1383(LC 1), 2=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2574/166, 3-4=-2288/185, 4-5=-2657/198, 5-6=-2657/198, 6-7=-1656/112, 7-8=-1656/112, 8-9=-1324/134
BOT CHORD 2-14=-219/2207, 13-14=-219/2207, 12-13=-175/2015, 11-12=-173/2504, 10-11=-173/2504
WEBS 3-13=-316/69, 4-13=-2/358, 4-12=-40/780, 5-12=-420/124, 6-10=-1040/76, 7-10=-419/120, 8-10=-135/1999

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 34-10-4 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
 - 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) 9 except (jt=lb) 2=117.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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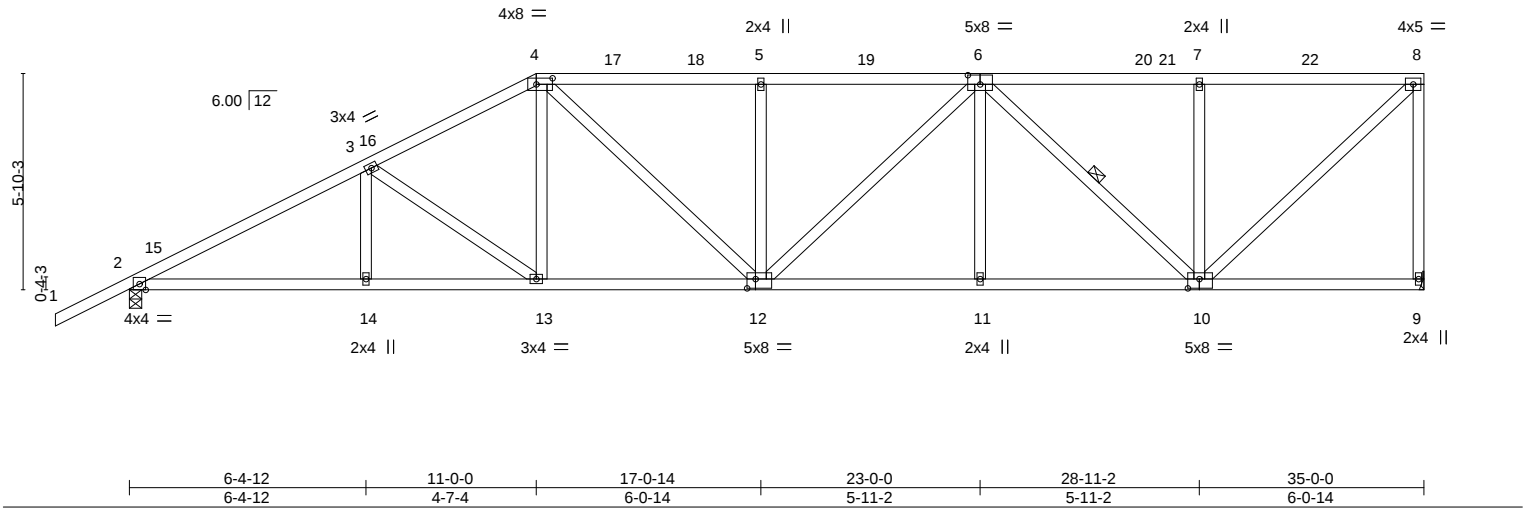
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550337
6250760	A03	Half Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:42 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-VNqjEzMSseEyO2kEYHweLM_?28S4j10WEcRacLUyuX0R
-2-0-0 6-4-12 11-0-0 17-0-14 23-0-0 28-11-2 35-0-0
2-0-0 6-4-12 4-7-4 6-0-14 5-11-2 5-11-2 6-0-14

Scale = 1:62.3



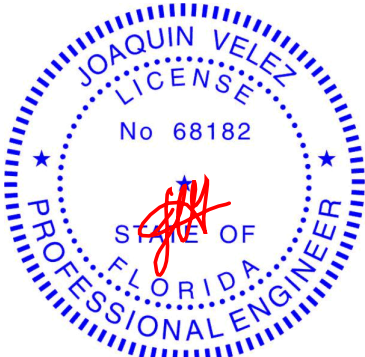
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.13 12	I/defl	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.28 12-13	>999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.10 9	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.08 12	>999		Weight: 207 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-3 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.2	WEBS	1 Row at midpt 6-10

REACTIONS.	
(size)	9=Mechanical, 2=0-4-0
Max Horz	2=168(LC 12)
Max Uplift	9=-69(LC 12), 2=-113(LC 12)
Max Grav	9=1383(LC 1), 2=1522(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2582/157, 3-4=-2150/170, 4-5=-2191/176, 5-6=-2201/179, 6-7=-1270/92, 7-8=-1270/92, 8-9=-1329/136
BOT CHORD	2-14=-237/2216, 13-14=-237/2216, 12-13=-175/1868, 11-12=-147/1977, 10-11=-147/1977
WEBS	3-13=-431/76, 4-13=0/387, 4-12=-14/442, 5-12=-386/115, 6-12=-46/304, 6-10=-970/76, 7-10=-388/112, 8-10=-123/1719

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 34-10-4 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) 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) 9 except (jt=lb) 2=113.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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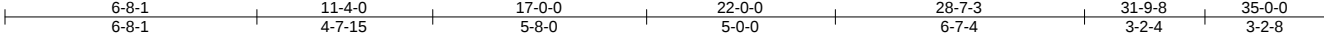
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550340
6250760	A06	ROOF SPECIAL	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:44 2024 Page 1

ID:ILvgrdrRfc_J_b2qMEUJE7yRHSASlyTefOi9rC6I2NwOKgpRO5QOFjVt7Xf93jQNYuX0P



Scale = 1:61.0

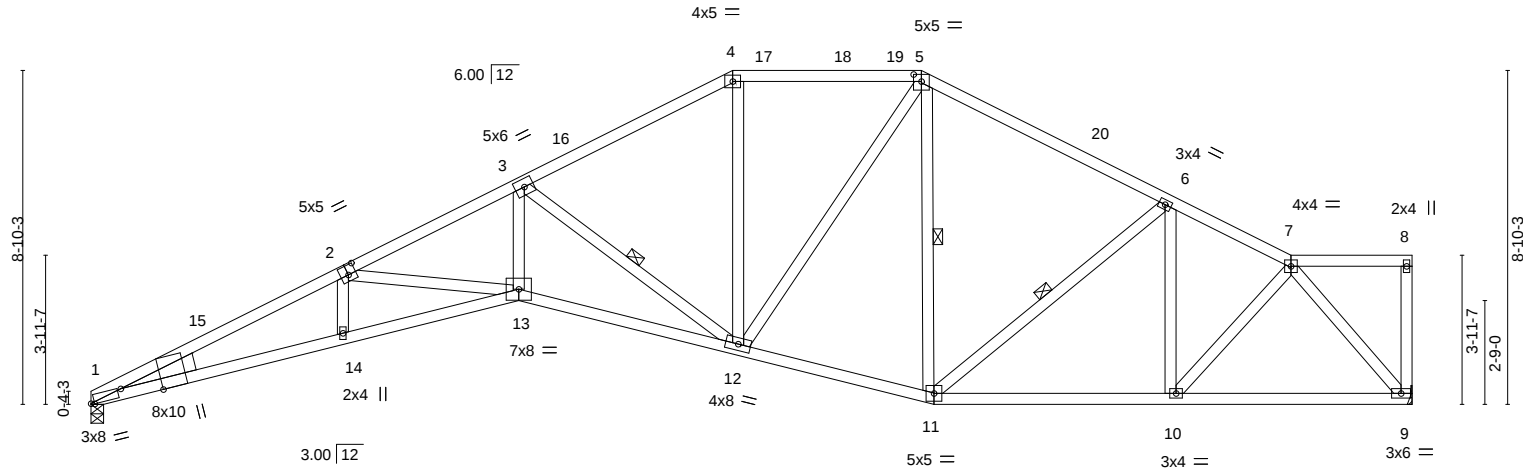


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [1:0-1-2,0-0-6], [2:0-2-8,0-3-0], [5:0-2-8,0-2-4]
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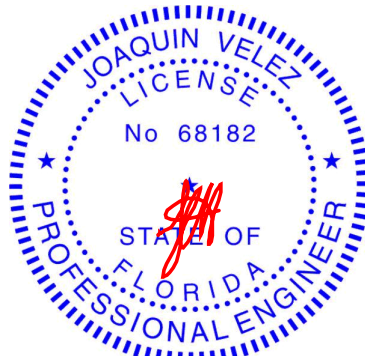
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL) -0.32	13	>999	360			MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.91	Vert(CT) -0.63	13	>657	240				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.36	9	n/a	n/a				
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.20	13	>999	240			Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-2: 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 1-13: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-12, 5-11, 6-11
WEDGE Left: 2x6 SP No.2	

REACTIONS. (size) 9=Mechanical, 1=0-4-0
Max Horz 1=111(LC 11)
Max Uplift 9=65(LC 12), 1=56(LC 12)
Max Grav 9=1388(LC 1), 1=1388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4782/490, 2-3=-4084/488, 3-4=-1945/280, 4-5=-1680/287, 5-6=-1592/243, 6-7=-1582/181
BOT CHORD 1-14=-519/4319, 13-14=-522/4307, 12-13=-452/3715, 11-12=-136/1398, 10-11=-146/1412, 9-10=-128/1048
WEBS 2-13=-599/114, 3-13=-188/2115, 3-12=-2418/329, 4-12=-12/522, 5-12=-73/658, 6-10=-281/128, 7-10=-50/551, 7-9=-1609/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 22-0-0, Zone2 22-0-0 to 26-2-15, Zone1 26-2-15 to 34-10-4 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
 - 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.
 - 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 100 lb uplift at joint(s) 9, 1.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550341
6250760	A07	ROOF SPECIAL	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:44 2024 Page 1

ID:ILvgrdrRfc_J_b2qMEUjE7yRHSASlyTefOi9rC6l2NwOKgpRO5QFFooVgcXf93jQNYuX0P



Scale: 3/16"=1'

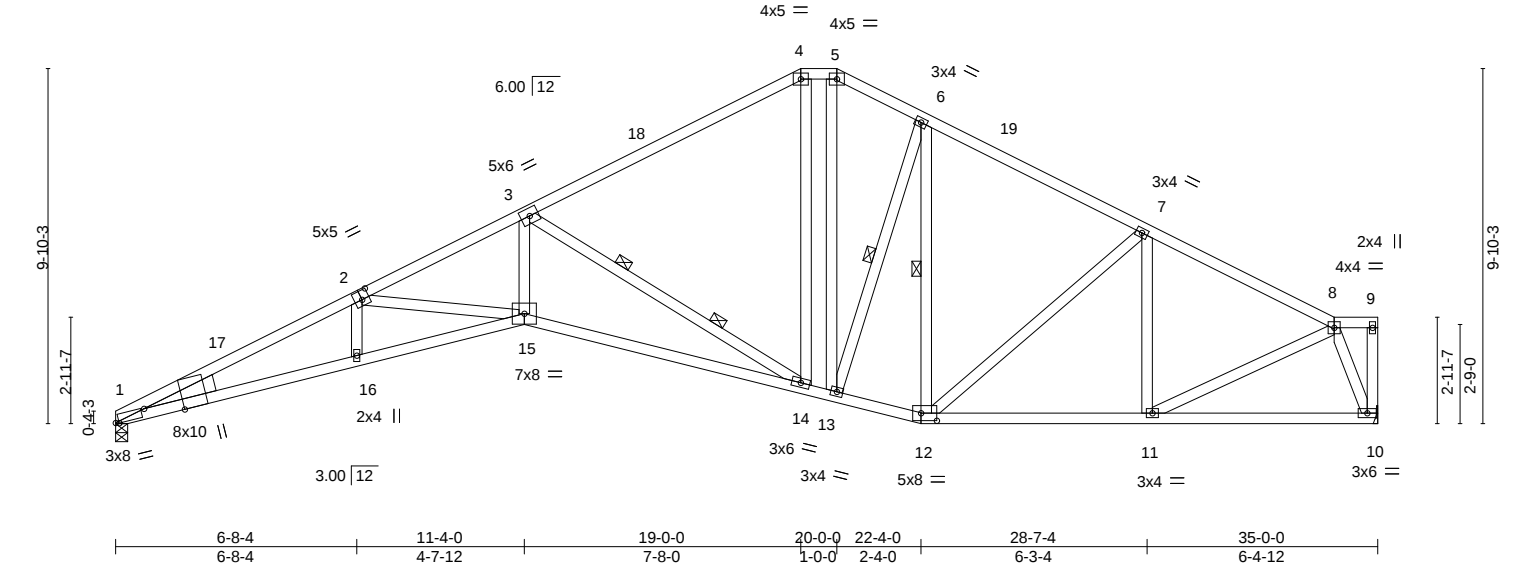


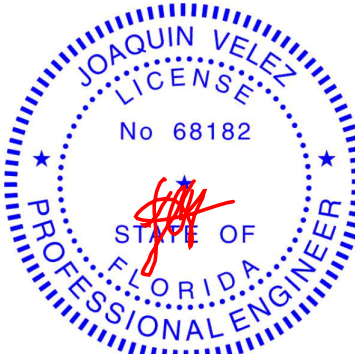
Plate Offsets (X,Y)--		[1:0-3-8,Edge], [1:0-1-2,0-0-6], [2:0-2-8,0-3-0], [12:0-5-4,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.69		Vert(LL)	-0.33 14-15	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.56		Vert(CT)	-0.74 14-15	>563	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.80		Horz(CT)	0.37 10	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.20 14-15	>999	240	Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-4,1-2: 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except* 10-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-13, 6-12 2 Rows at 1/3 pts 3-14
WEDGE Left: 2x6 SP No.2	

REACTIONS. (size) 10=Mechanical, 1=0-4-0
Max Horz 1=136(LC 11)
Max Uplift 10=-63(LC 12), 1=-58(LC 12)
Max Grav 10=1388(LC 1), 1=1388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4765/432, 2-3=-4132/402, 3-4=-1639/236, 4-5=-1374/244, 5-6=-1565/262,
6-7=-1591/219, 7-8=-1632/158
BOT CHORD 1-16=-408/4301, 15-16=-409/4295, 14-15=-355/3786, 13-14=-40/1291, 12-13=-90/1420,
11-12=-105/1410, 10-11=-58/549
WEBS 2-15=-530/105, 3-15=-124/2165, 3-14=-2699/310, 4-14=0/516, 5-13=-172/609,
6-13=-123/270, 6-12=-349/61, 7-11=-294/113, 8-11=-56/968, 8-10=-1431/172

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 19-0-0, Zone2 19-0-0 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 34-10-4 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
 - 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 joint(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 100 lb uplift at joint(s) 10, 1.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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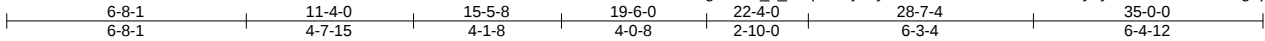
Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550342
6250760	A08	ROOF SPECIAL	2	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:45 2024 Page 1

Job Reference (optional)

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Scale: 3/16"=1'

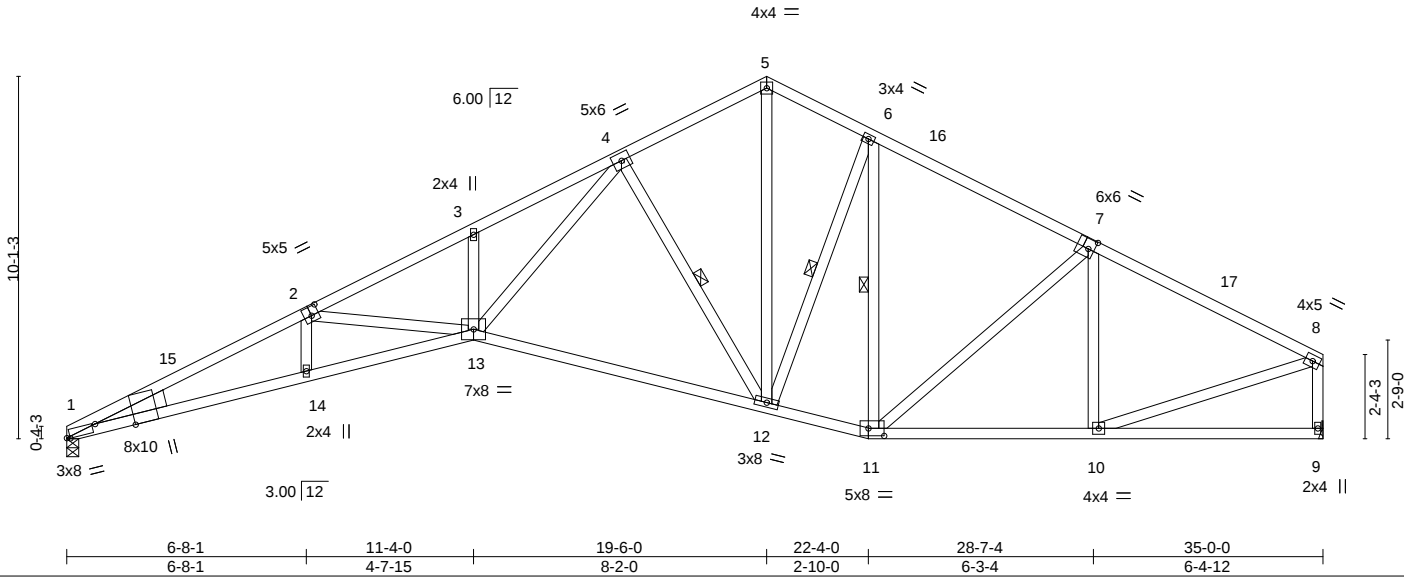


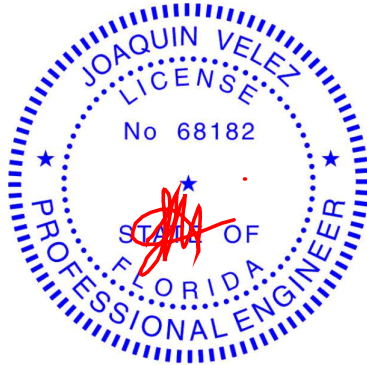
Plate Offsets (X,Y)--		[1:0-3-8,Edge], [1:0-1-2,0-0-6], [2:0-2-8,0-3-0], [7:0-2-0,0-3-4], [11:0-5-4,0-2-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.32	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.70	12-13	>595	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.33	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.19	13	>999	240	Weight: 218 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals.
1-2: 2x4 SP M 31 or 2x4 SP SS	
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
1-13: 2x4 SP M 31 or 2x4 SP SS	
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-12, 6-12, 6-11
WEDGE	
Left: 2x6 SP No.2	

REACTIONS. (size) 1=0-4-0, 9=Mechanical
Max Horz 1=144(LC 11)
Max Uplift 1=59(LC 12), 9=62(LC 12)
Max Grav 1=1388(LC 1), 9=1388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4789/404, 2-3=-4077/342, 3-4=-4051/392, 4-5=-1543/237, 5-6=-1531/243,
6-7=-1591/225, 7-8=-1651/171, 8-9=-1330/175
BOT CHORD 1-14=-364/4326, 13-14=-364/4320, 12-13=-126/2042, 11-12=-57/1396, 10-11=-92/1420
WEBS 2-13=-630/138, 4-12=-1285/188, 5-12=-147/1150, 7-10=-315/115, 8-10=-79/1417,
4-13=-176/2545

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 19-6-0, Zone2 19-6-0 to 23-8-15, Zone1 23-8-15 to 34-10-4 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
 - 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 100 lb uplift at joint(s) 1, 9.



Joaquin Velez PE No.68182
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Date:

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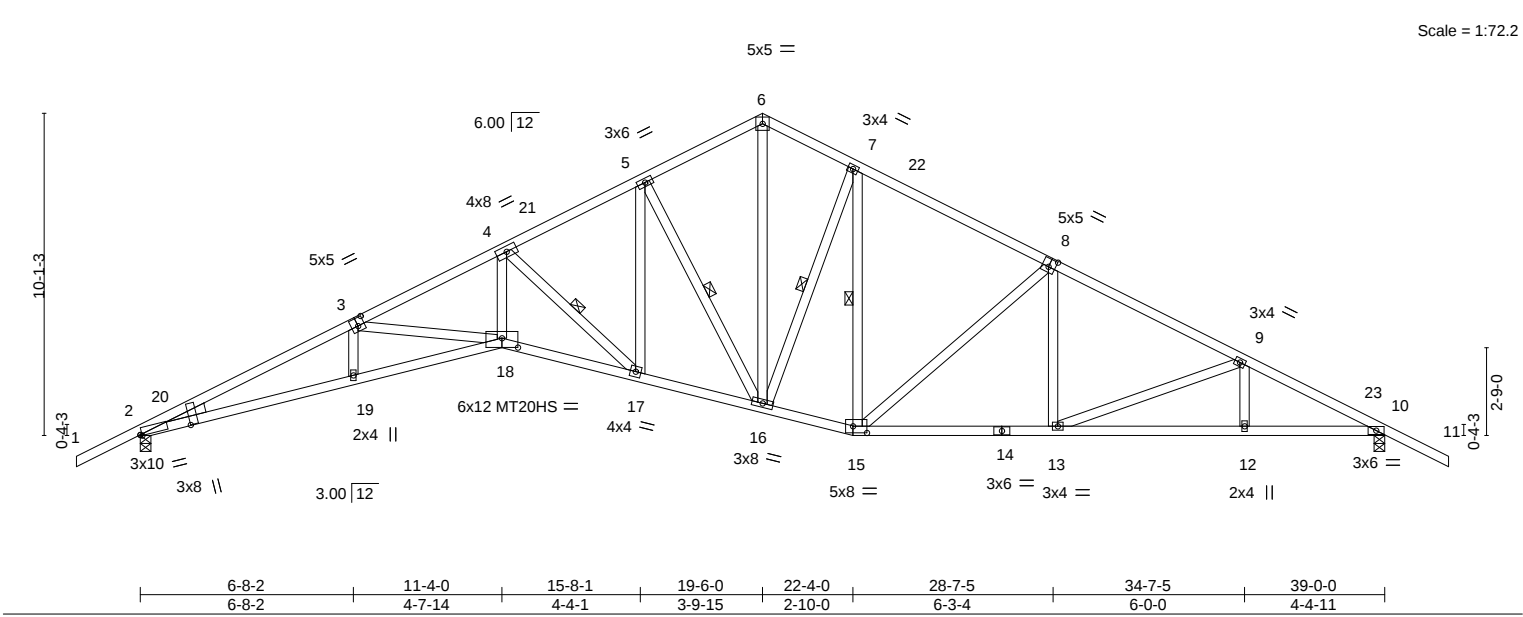
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550343
6250760	A09	ROOF SPECIAL	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),		Ocala, FL - 34472,		8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:46 2024 Page 1						
						ID:ILvgrdrFc_b_j2qMEUJE7yRHSA-O83E3LQyhTSqXMXJWjHWpAoo3MfzkBq7SYqUFyXON				
-2-0-0	6-8-2	11-4-0	15-8-1	19-6-0	22-4-0	28-7-5	34-7-5	39-0-0	41-0-0	
2-0-0	6-8-2	4-7-14	4-4-1	3-9-15	2-10-0	6-3-4	6-0-0	4-4-11	2-0-0	



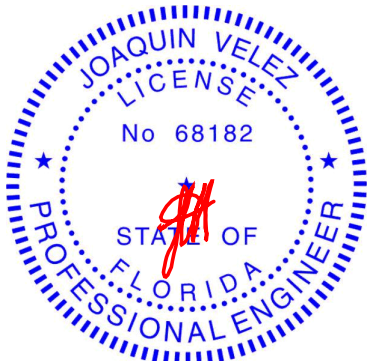
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.98	Vert(LL) -0.40 18 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.81 17-18 >576 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.44 10 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.22 18 >999 240	Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins.
1-3: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SP No.2 *Except*	2-2-0 oc bracing: 17-18.
2-18: 2x4 SP M 31 or 2x4 SP SS	WEBS 1 Row at midpt 4-17, 5-16, 7-16, 7-15
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS.	(size) 2=0-4-0, 10=0-4-0
Max Horz 2=-177(LC 10)	
Max Uplift 2=-128(LC 12), 10=-128(LC 12)	
Max Grav 2=1677(LC 1), 10=1677(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5349/280, 3-4=-4683/269, 4-5=-2639/240, 5-6=-1890/253, 6-7=-1884/258, 7-8=-2045/239, 8-9=-2586/213, 9-10=-2985/194
BOT CHORD	2-19=-172/4809, 18-19=-175/4802, 17-18=-87/4263, 16-17=-3/2391, 15-16=-11/1813, 13-15=-69/2243, 12-13=-119/2586, 10-12=-119/2586
WEBS	3-18=-563/85, 4-18=-28/2352, 4-17=-2483/111, 5-17=0/1327, 5-16=-1425/119, 6-16=-166/1472, 7-16=-403/131, 8-15=-651/83, 8-13=0/377, 9-13=-379/54

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-6-0, Zone2 19-6-0 to 23-8-15, Zone1 23-8-15 to 41-0-0 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	
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
4) All plates are MT20 plates unless otherwise indicated.	
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
7) 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.	
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.	



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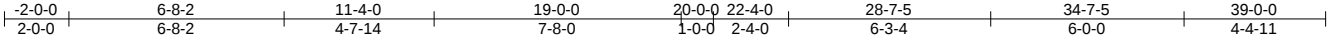
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550346
6250760	A11	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:47 2024 Page 1

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Scale = 1:71.5

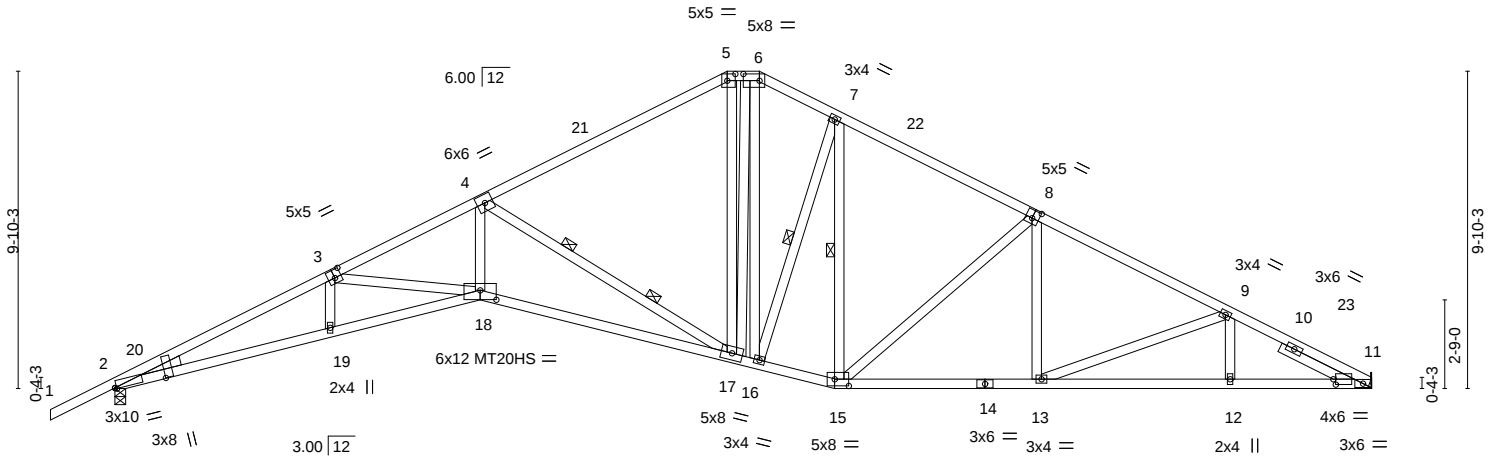


Plate Offsets (X,Y)--	[2:0-0-15,1-7-5], [2:0-0-10,Edge], [3:0-2-8,0-3-0], [5:0-3-0,0-2-8], [6:0-6-0,0-2-8], [8:0-2-8,0-3-0], [11:0-0-15,0-2-0], [15:0-5-4,0-2-8], [18:0-6-0,0-3-8]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.40	18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.83	17-18	>563	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.45	11	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.23	18	>999	Weight: 252 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5,1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except*
14-15,11-14: 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-16, 7-15
2 Rows at 1/3 pts 4-17

REACTIONS.

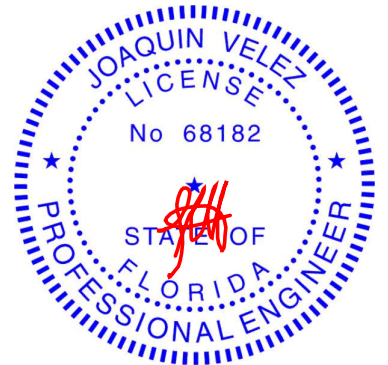
(size) 2=0-4-0, 11=Mechanical
Max Horz 2=169(LC 11)
Max Uplift 2=-131(LC 12), 11=-66(LC 12)
Max Grav 2=1684(LC 1), 11=1547(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5360/304, 3-4=-4767/312, 4-5=-2044/215, 5-6=-1742/232, 6-7=-1925/252,
7-8=-2069/230, 8-9=-2632/218, 9-11=-3084/219
BOT CHORD 2-19=-233/4817, 18-19=-235/4810, 17-18=-184/4363, 16-17=0/1753, 15-16=-23/1836,
13-15=-86/2284, 12-13=-158/2708, 11-12=-158/2708
WEBS 3-18=-474/55, 4-18=-37/2398, 4-17=-2938/210, 5-17=0/497, 6-17=-3/744,
6-16=-180/287, 7-16=-429/124, 8-15=-674/90, 8-13=0/390, 9-13=-460/78

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-0-0, Zone3 19-0-0 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 38-11-4 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=131.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550347
6250760	A12	Hip	1	1	Job Reference (optional)	

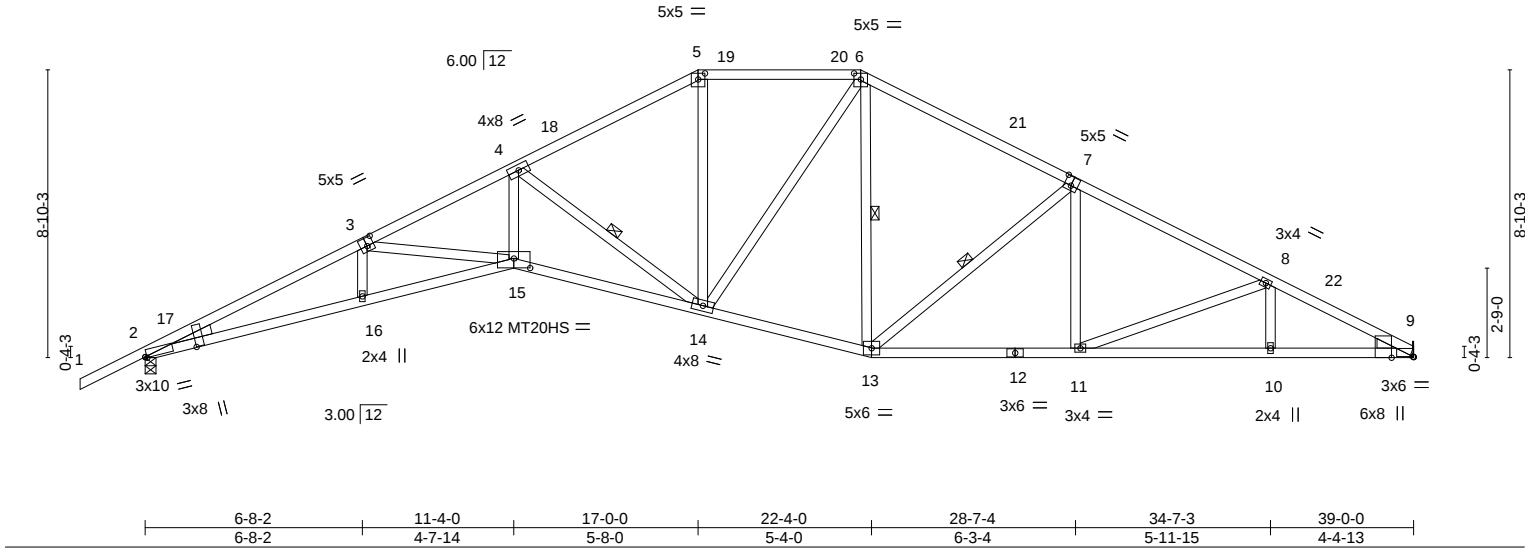
Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,

8.730 s Jul 11 2024
MiTek Industries, Inc.
Thu Jul 25 12:22:48 2024
Page 1

ID: lLvgrdrRfc_J_b2qMEUjE7yRHSA-KWB_U1RDD4iYmfhdAlIbEF7mt6ORfT6am1xZ8yuXOL

-2-0-0
2-0-0
6-8-2
6-8-2
11-4-0
4-7-14
17-0-0
5-8-0
22-0-0
5-0-0
28-7-4
6-7-4
34-7-3
5-11-15
39-0-0
4-4-13

Scale = 1:70.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.39 15 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.78 14-15 >593 240	MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.43 9 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.22 15 >999 240				
								Weight: 219 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
2-15,13-15: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 6-13, 7-13

REACTIONS. (size) 2=0-4-0, 9=Mechanical
Max Horz 2=153(LC 11)
Max Uplift 2=-131(LC 12), 9=-66(LC 12)
Max Grav 2=1684(LC 1), 9=1547(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5373/344, 3-4=-4733/343, 4-5=-2357/246, 5-6=-2052/251, 6-7=-2063/245, 7-8=-2634/234, 8-9=-3095/236
BOT CHORD 2-16=-270/4830, 15-16=-272/4822, 14-15=-205/4317, 13-14=-33/1824, 11-13=-105/2288, 10-11=-173/2717, 9-10=-173/2717
WEBS 3-15=-523/67, 4-15=-68/2376, 4-14=-2688/199, 5-14=-8/706, 6-14=-9/606, 7-13=-690/106, 7-11=0/382, 8-11=-463/77

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 22-0-0, Zone2 22-0-0 to 26-2-15, Zone1 26-2-15 to 38-11-4 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) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=131.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

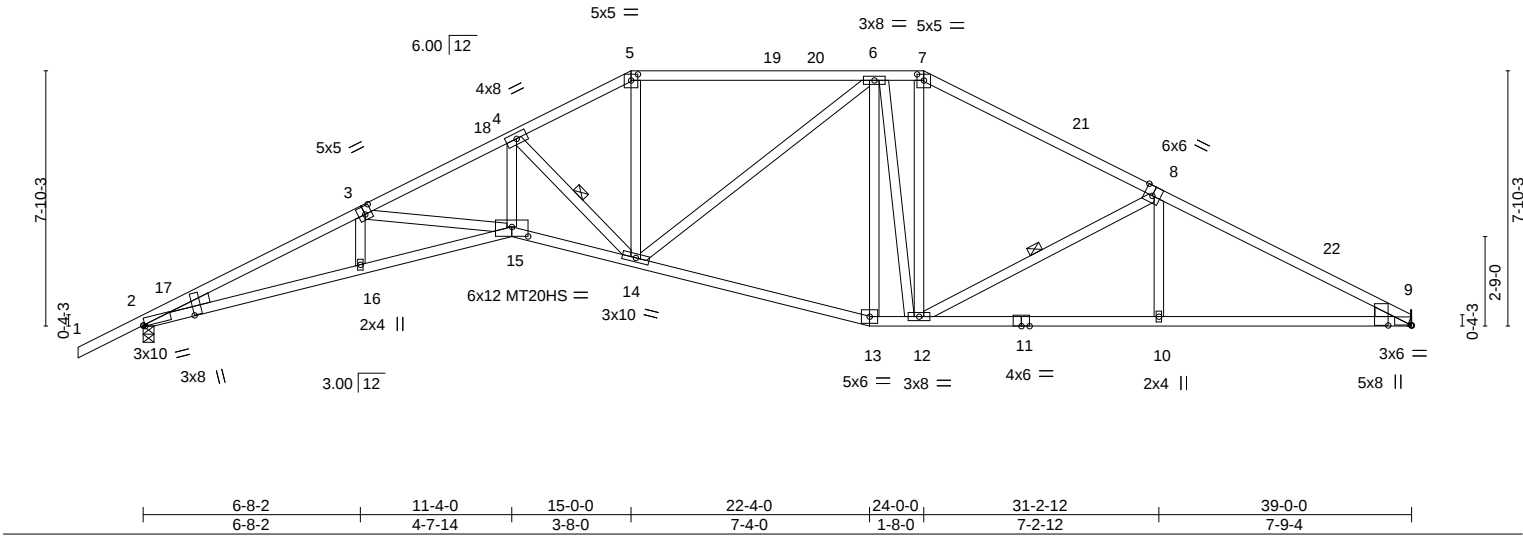
July 26,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550348
6250760	A13	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:49 2024 Page 1
ID:ILVgrdrRfc_J_b2qMEUJE7yRHSa-ojIMiMSr_NqPopGuBuG_8SoCTGQjA8bGpQnU5ayux0K
-2-0-0 | 6-8-2 | 11-4-0 | 15-0-0 | 22-4-0 | 24-0-0 | 31-2-12 | 39-0-0 |
2-0-0 | 6-8-2 | 4-7-14 | 3-8-0 | 7-4-0 | 1-8-0 | 7-2-12 | 7-9-4 |
Scale = 1:70.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.37	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.75	MT20HS	187/143		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.41				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.21	Weight: 221 lb		FT = 20%	

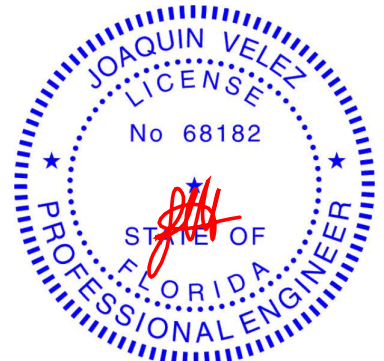
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3,8-9: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
2-15,13-15: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 8-12

REACTIONS. (size) 2=0-4-0, 9=Mechanical
Max Horz 2=136(LC 11)
Max Uplift 2=-131(LC 12), 9=-66(LC 12)
Max Grav 2=1684(LC 1), 9=1547(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5385/348, 3-4=-4705/339, 4-5=-2807/257, 5-6=-2497/253, 6-7=-1908/240,
7-8=-2230/236, 8-9=-2931/230
BOT CHORD 2-16=-274/4843, 15-16=-278/4834, 14-15=-196/4274, 13-14=-69/2050, 12-13=-58/1978,
10-12=-143/2553, 9-10=-143/2553
WEBS 3-16=0/251, 3-15=-563/79, 4-15=-92/2338, 4-14=-2394/178, 5-14=-14/901, 6-14=-1/718,
6-13=-423/51, 6-12=-550/79, 7-12=-69/825, 8-12=-752/116, 8-10=0/341

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1 28-2-15 to 38-11-4 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) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=131.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550349
6250760	A14	Hip	1	1	Job Reference (optional)	

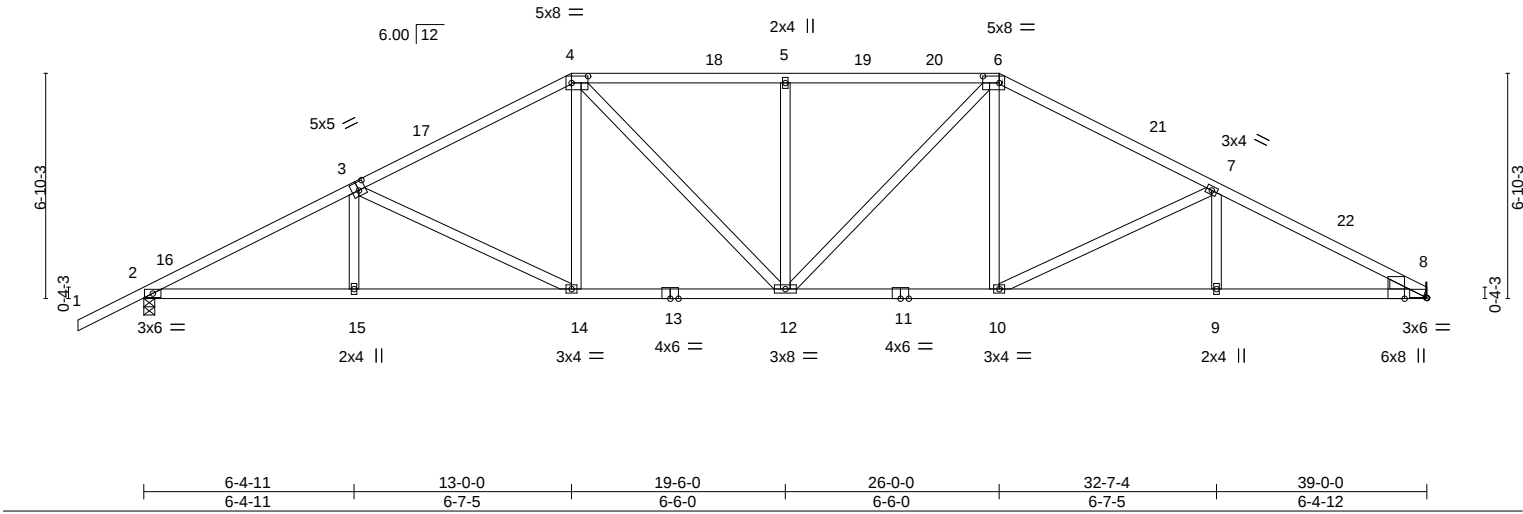
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:49 2024 Page 1

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Scale = 1:70.0



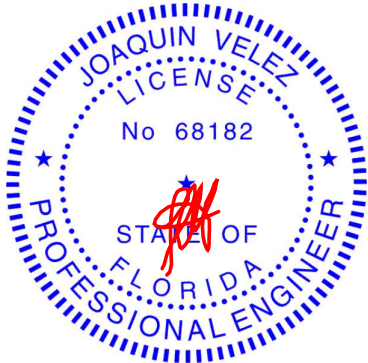
LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.24 10-12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.44 10-12 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.17 8 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-S		Wind(LL)	0.11 12 >999 240				
								Weight: 209 lb		FT = 20%	

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

REACTIONS.		(size) 2=0-4-0, 8=Mechanical
		Max Horz 2=120(LC 11)
		Max Uplift 2=131(LC 12), 8=66(LC 12)
		Max Grav 2=1856(LC 17), 8=1737(LC 18)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3293/219, 3-4=-2640/227, 4-5=-2590/258, 5-6=-2590/258, 6-7=-2661/233, 7-8=-3351/232	
BOT CHORD	2-15=-149/2936, 14-15=-151/2930, 12-14=-65/2351, 10-12=-63/2299, 9-10=-157/2937, 8-9=-157/2937	
WEBS	3-15=0/276, 3-14=-659/95, 4-14=0/560, 4-12=-40/525, 5-12=-436/123, 6-12=-34/508, 6-10=0/584, 7-10=-734/106, 7-9=0/284	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 26-0-0, Zone2 26-0-0 to 30-2-15, Zone1 30-2-15 to 38-11-4 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 100 lb uplift at joint(s) 8 except (jt=lb) 2=131.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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 ID: lVgrdrRfc_J_b2qMEUjE7yRHSA-GvJlviTTtHgyG0zr4lbnDgfKVygmeyavP24W1d0yuX0J
 2-2-02-4-0 6-3-12 11-0-0 15-0-0 19-3-4 23-6-12 28-0-0 32-7-4 39-0-0
 2-2-00-2-0 3-11-13 4-8-4 4-0-0 4-3-4 4-5-4 4-7-4 6-4-12

[illegible]

2-2-0-2-0	6-3-12	11-0-0	14-10-0	15-0-0	19-3-4	23-6-12	28-0-0	32-7-4	39-0-0
2-2-0-0-2-0	3-11-13	4-8-4	3-10-0	0-2-0	4-3-4	4-3-8	4-5-4	4-7-4	6-4-12
Plate Offsets (X,Y)--	[1:0-0-8,0-1-8],	[2:0-1-1,0-3-8],	[4:0-1-8,0-3-0],	[5:0-6-0,0-2-8],	[7:0-4-0,0-3-0],	[9:0-6-0,0-2-8],	[14:0-4-0,0-3-0]		

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 0.49	Vert(LL) -0.27 17 >999 360	MT20	244/190
TCDL 10.0		Lumber DOL 1.25	BC 0.85	Vert(CT) -0.54 17 >856 240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.62	Horz(CT) 0.28 11 n/a n/a		
BCDL 10.0		Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.16 17 >999 240	Weight: 276 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP M 31 or 2x4 SP SS, 1-4: 2x6 SP DSS
BOT CHORD	2x4 SP No.2 *Except* 2-18: 2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x6 SP DSS
LBR SCAB	1-4 2x6 SP DSS both sides
SLIDER	Left 2x4 SP No.2 1-7-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 16-18

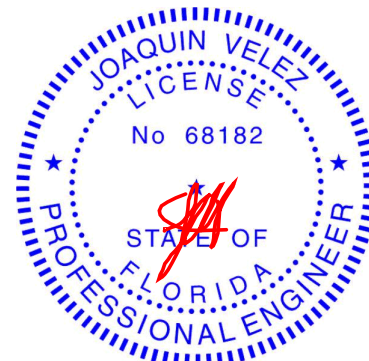
REACTIONS. (size) 11=Mechanical, 1=0-4-0
 Max Horz 1=101(LC 11)
 Max Uplift 11=-66(LC 12), 1=-63(LC 12)
 Max Grav 11=1553(LC 1), 1=1559(LC 1)

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

TOP CHORD	1-2=675/78, 2-4=-4114/330, 4-5=-3114/269, 5-6=-3160/300, 6-7=-3147/299, 7-8=-2618/276, 8-9=-2619/276, 9-10=-2543/254, 10-11=-2999/245
BOT CHORD	2-20=-268/3907, 19-20=-264/3914, 18-19=-117/2728, 6-18=-252/86, 14-15=-129/2732, 13-14=-94/2215, 12-13=-171/2619, 11-12=-171/2619
WEBS	4-19=-1305/159, 5-19=-8/663, 5-18=-60/735, 15-18=-127/2571, 7-18=-33/631, 7-15=-562/84, 7-14=-263/12, 8-14=-275/94, 9-14=-55/729, 9-13=-5/376, 10-13=-503/95, 10-12=0/251

NOTES-

- 1) Attached 7-0-10 scab 1 to 4, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-4 from end at joint 4, nail 2 row(s) at 4" o.c. for 5-5-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl.; GCp=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 4-0-13, Zone1 4-0-13 to 11-0-0, Zone2 11-0-0 to 16-6-3, Zone1 16-6-3 to 28-0-0, Zone2 28-0-0 to 33-6-3, Zone1 33-6-3 to 38-11-4 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
- 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) Refer to girder(s) for truss to truss connections.
- 9) 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.
- 10) Provide mechanical connection (bv others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11. 1.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26, 2024



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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550351
6250760	A16	Half Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:51 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-k5i762T5W?47e7QGJJISDttiz45oe05ZGkGb9TyuX0l
2-2-0 2-4-0 6-3-13 9-0-0 12-1-1 15-0-0 19-9-1 24-6-5 29-3-10 34-0-15 39-0-0
2-2-0 0-2-0 3-11-13 2-8-3 3-1-1 2-10-15 4-9-1 4-9-5 4-9-5 4-9-5 4-11-1

Scale = 1:67.0

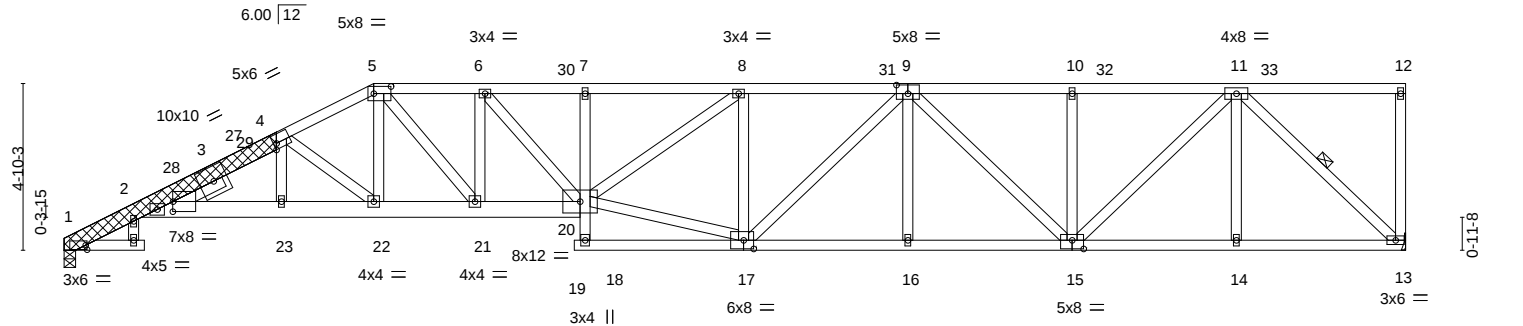


Plate Offsets (X,Y)--	[1:0-0-8,0-1-8], [2:0-0-1,0-3-8], [4:Edge,0-2-0], [5:0-6-0,0-2-8], [9:0-4-0,0-3-0], [15:0-4-0,0-3-0], [17:0-3-8,0-3-0]
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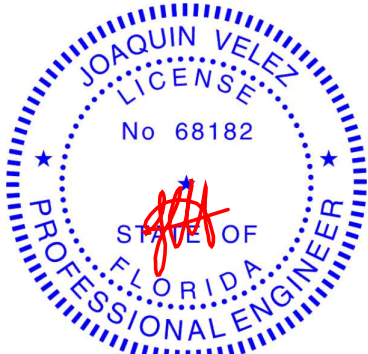
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) -0.33	19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.85	Vert(CT) -0.66	19	>704	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.28	13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.21	19	>999	240	Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-20: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.2	10-0-0 oc bracing: 18-20
OTHERS 2x6 SP DSS	WEBS 1 Row at midpt 11-13
LBR SCAB 1-4 2x6 SP DSS both sides	
SLIDER Left 2x4 SP No.2 1-7-0	

REACTIONS. (size) 13=Mechanical, 1=0-4-0
Max Horz 1=108(LC 12)
Max Uplift 13=-72(LC 12), 1=-56(LC 12)
Max Grav 13=1550(LC 1), 1=1556(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-674/0, 2-4=-4084/322, 4-5=-3427/293, 5-6=-3660/310, 6-7=-4014/320,
7-8=-3997/320, 8-9=-3323/242, 9-10=-2476/166, 10-11=-2476/166
BOT CHORD 2-23=-379/3872, 22-23=-376/3880, 21-22=-273/3027, 20-21=-310/3659, 17-18=-13/355,
16-17=-216/3102, 15-16=-216/3102, 14-15=-100/1460, 13-14=-100/1460
WEBS 4-22=-1067/140, 5-22=-50/673, 6-20=-17/539, 17-20=-235/3042, 8-20=-98/848,
8-17=-810/138, 9-17=-37/305, 9-15=-865/69, 10-15=-279/76, 11-15=-97/1404,
11-13=-2000/136, 5-21=-56/957, 6-21=-575/77

- NOTES-**
- Attached 7-0-11 scab 1 to 4, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-4 from end at joint 4, nail 2 row(s) at 4" o.c. for 5-5-1.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 4-0-13, Zone1 4-0-13 to 9-0-0, Zone2 9-0-0 to 14-6-3, Zone1 14-6-3 to 38-10-4 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
 - 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.
 - 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 100 lb uplift at joint(s) 13, 1.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550352
6250760	A17	Half Hip Girder	1	2	Job Reference (optional)	

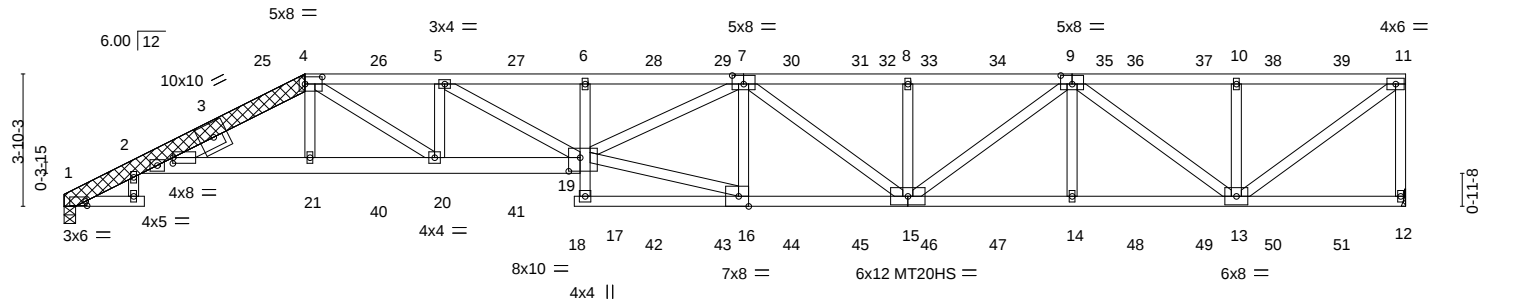
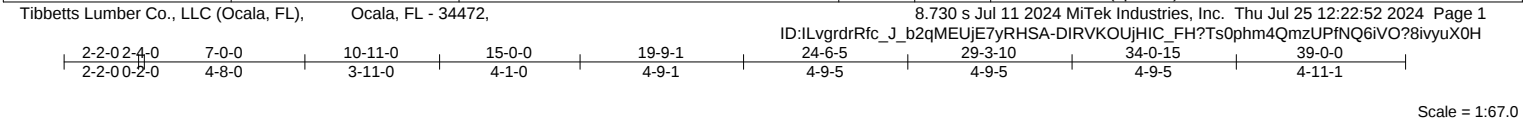


Plate Offsets (X,Y)--	[1:0-0-8,0-1-8], [2:0-0-1,0-2-0], [4:0-6-0,0-2-8], [7:0-4-0,0-3-0], [9:0-4-0,0-3-0], [16:0-3-8,Edge], [19:0-4-0,0-4-12]
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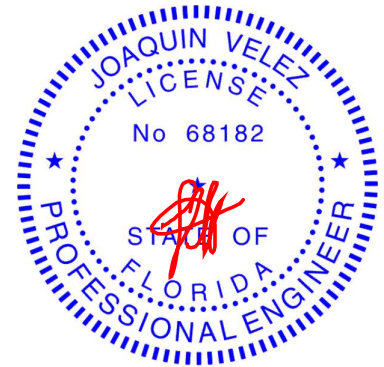
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.77	Vert(LL) -0.51	18	>909	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 1.00	Vert(CT) -1.04	18	>446	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.89	Horz(CT) 0.35	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.32	18	>999	240	Weight: 541 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-19: 2x6 SP DSS, 15-18: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 17-19
WEBS 2x4 SP No.2	
OTHERS 2x6 SP DSS	
LBR SCAB 1-4 2x6 SP DSS both sides	
SLIDER Left 2x4 SP No.2 1-7-0	

REACTIONS.	(size) 1=0-4-0, 12=Mechanical
	Max Horz 1=84(LC 8)
	Max Uplift 1=-70(LC 8), 12=-200(LC 8)
	Max Grav 1=2997(LC 1), 12=3149(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1305/0, 2-4=-8242/222, 4-5=-10086/391, 5-6=-11640/559, 6-7=-11526/561, 7-8=-8243/478, 8-9=-8243/478, 9-10=-3873/244, 10-11=-3873/244, 11-12=-3063/240
BOT CHORD	2-21=-235/7704, 20-21=-226/7754, 19-20=-392/10082, 6-19=-485/156, 16-17=-37/1144, 15-16=-478/8862, 14-15=-401/6584, 13-14=-401/6584
WEBS	4-21=0/852, 4-20=-196/2749, 5-20=-1194/210, 5-19=-194/1812, 16-19=-452/7913, 7-19=-95/3034, 7-16=-1616/233, 7-15=-772/0, 8-15=-557/182, 9-15=-96/2068, 9-14=0/411, 9-13=-3380/196, 10-13=-620/202, 11-13=-300/4776

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Attached 7-11-12 scab 1 to 4, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 1-6-0 from end at joint 1, nail 3 row(s) at 4" o.c. for 2-0-0; starting at 4-0-1 from end at joint 1, nail 2 row(s) at 7" o.c. for 3-10-2.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; 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.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550352
6250760	A17	Half Hip Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:52 2024 Page 2
ID:lLvgrdrRfc_J_b2qMEUjE7yRHSa-DIRVKOUjHIC_FH?Ts0phm4QmzUPfNQ6iVO?8ivyuX0H

- NOTES-**
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Refer to girder(s) for truss to truss connections.
- 12) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=200.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 116 lb up at 7-0-0, 105 lb down and 62 lb up at 9-0-12, 105 lb down and 62 lb up at 11-0-12, 105 lb down and 62 lb up at 13-0-12, 122 lb down and 83 lb up at 15-0-12, 122 lb down and 83 lb up at 17-0-12, 122 lb down and 83 lb up at 19-0-12, 122 lb down and 83 lb up at 21-0-12, 122 lb down and 83 lb up at 23-0-12, 122 lb down and 83 lb up at 25-0-12, 122 lb down and 83 lb up at 27-0-12, 122 lb down and 83 lb up at 29-0-12, 122 lb down and 83 lb up at 31-0-12, 122 lb down and 83 lb up at 33-0-12, and 122 lb down and 83 lb up at 35-0-12, and 122 lb down and 83 lb up at 37-0-12 on top chord, and 381 lb down at 7-0-0, 81 lb down at 9-0-12, 81 lb down at 11-0-12, 81 lb down at 13-0-12, 95 lb down at 15-1-12, 95 lb down at 17-0-12, 95 lb down at 19-0-12, 95 lb down at 21-0-12, 95 lb down at 23-0-12, 95 lb down at 25-0-12, 95 lb down at 27-0-12, 95 lb down at 29-0-12, 95 lb down at 31-0-12, 95 lb down at 33-0-12, and 95 lb down at 35-0-12, and 95 lb down at 37-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-82, 2-4=-60, 4-11=-60, 2-19=-20, 17-18=-20, 12-17=-20
- Concentrated Loads (lb)
- Vert: 4=-103(B) 19=-48(B) 6=-122(B) 21=-381(B) 20=-72(B) 5=-100(B) 9=-122(B) 14=-48(B) 26=-100(B) 27=-100(B) 28=-122(B) 29=-122(B) 30=-122(B) 31=-122(B) 33=-122(B) 34=-122(B) 36=-122(B) 37=-122(B) 38=-122(B) 39=-122(B) 40=-72(B) 41=-72(B) 42=-48(B) 43=-48(B) 44=-48(B) 45=-48(B) 46=-48(B) 47=-48(B) 48=-48(B) 49=-48(B) 50=-48(B) 51=-48(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

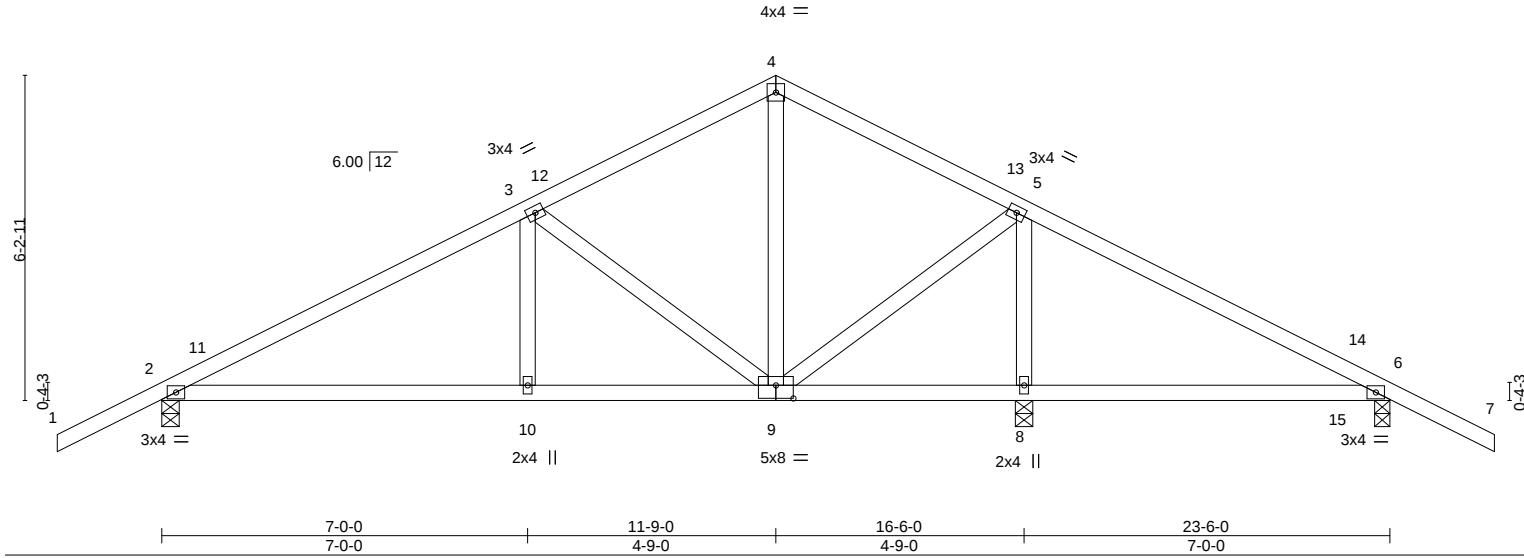
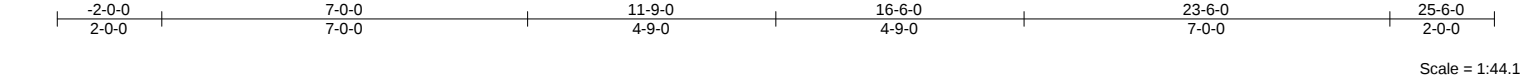
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550353
6250760	B01	Common	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:53 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-hU?txkVL2cKrtQZfQjLwlly_jutG60Ksk2liELyuX0G



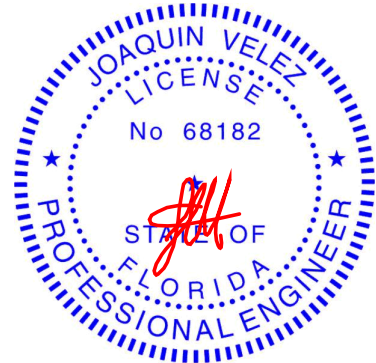
LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) -0.06	2-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.47	Vert(CT) -0.14	2-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.07	6-8	>999	240	Weight: 116 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-4-0, 8=0-4-0, 6=0-3-8
Max Horz 2=-113(LC 10)
Max Uplift 2=-96(LC 12), 8=-78(LC 12), 6=-146(LC 12)
Max Grav 2=739(LC 1), 8=1078(LC 1), 6=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/98, 3-4=-381/102, 4-5=-382/113, 5-6=-13/270
BOT CHORD 2-10=0/698, 9-10=0/698
WEBS 5-9=0/526, 5-8=-925/134, 3-9=-533/103, 3-10=0/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-9-0, Zone2 11-9-0 to 15-11-15, Zone1 15-11-15 to 25-6-0 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 6=146.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550354
6250760	B01X	GABLE	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:53 2024 Page 1

ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-hU?txkVL2cKrtQZfQjLwlly_jutG60Ksk2liELyuX0G

2-0-0 7-0-0 11-9-0 16-6-0 23-6-0 25-6-0

2-0-0 7-0-0 4-9-0 4-9-0 7-0-0 2-0-0

Scale = 1:44.1

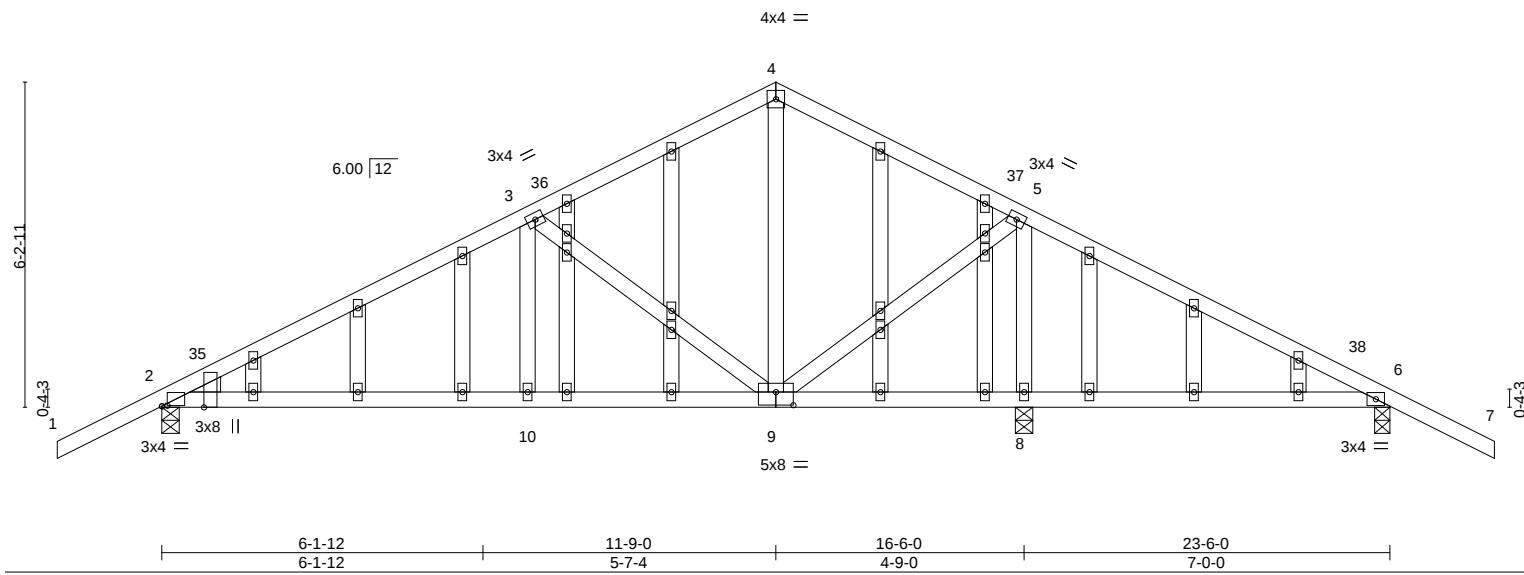


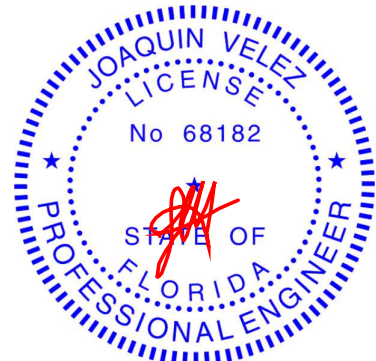
Plate Offsets (X,Y)--		[2:0-1-4,0-0-2], [2:0-0-4,Edge], [9:0-4-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.06 2-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.14 2-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S	Wind(LL)	-0.02 2-10	>999	240	Weight: 156 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-11 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.2			

REACTIONS. (size) 2=0-4-0, 8=0-4-0, 6=0-3-8
Max Horz 2=113(LC 11)
Max Uplift 2=-99(LC 12), 8=-8(LC 12), 6=-95(LC 12)
Max Grav 2=739(LC 1), 8=1078(LC 1), 6=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/106, 3-4=-381/116, 4-5=-382/126, 5-6=-13/270
BOT CHORD 2-10=-0/694, 9-10=-0/694
WEBS 3-10=0/275, 3-9=-533/97, 5-9=0/524, 5-8=-925/144

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-9-0, Zone2 11-9-0 to 15-11-15, Zone1 15-11-15 to 25-6-0 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 6.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550356
6250760	B03	Common Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:55 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-dt6eyQXcaDbY6kj1Y8NONj2MqhZtaqK8BMEolEyuXOE
-2-0-0 3-11-4 7-0-0 11-9-0 16-6-0 19-6-12 23-6-0 3-11-4
2-0-0 3-11-4 3-0-12 4-9-0 4-9-0 3-0-12 3-11-4

Scale = 1:41.3

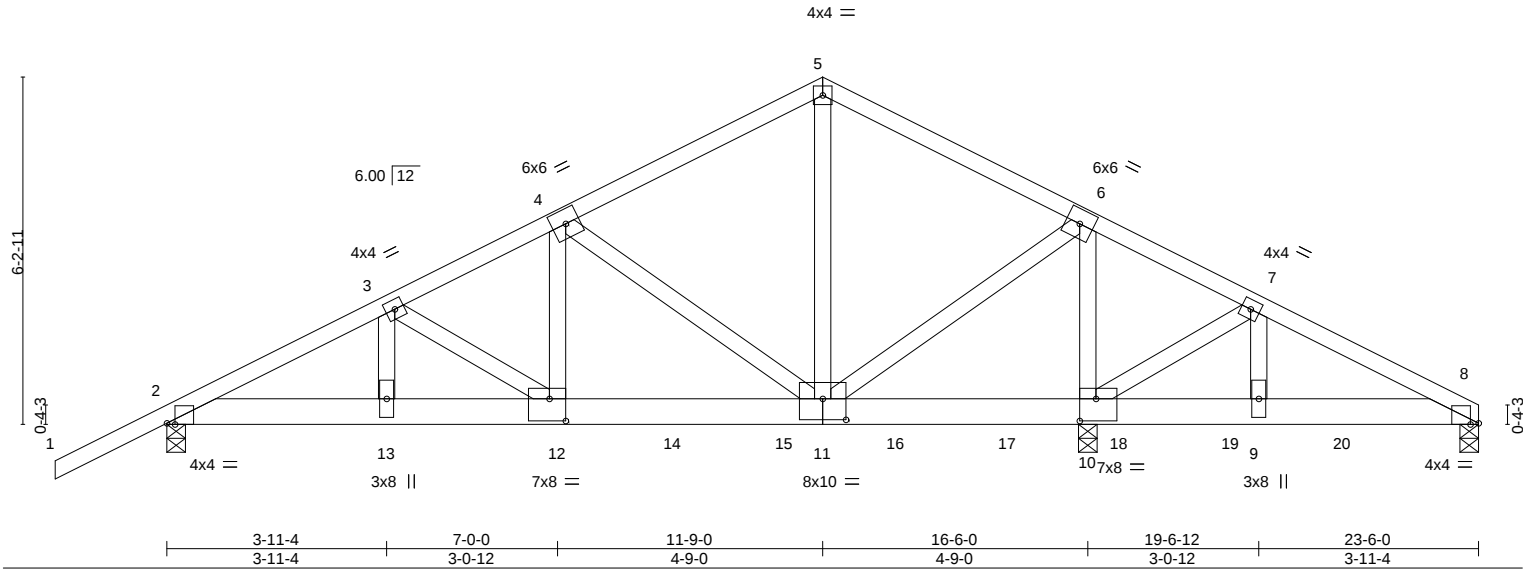


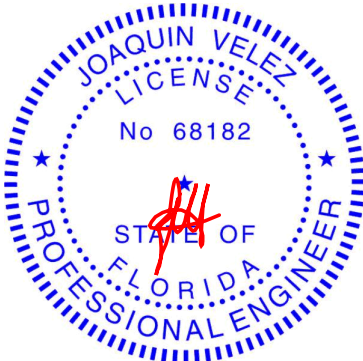
Plate Offsets (X,Y)--		[2:0-1-12,Edge], [8:0-1-12,Edge], [10:0-3-8,0-4-12], [11:0-5-0,0-4-8], [12:0-3-8,0-4-12]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.42	Vert(LL)	-0.08	11-12	>999		360		MT20		244/190		
TCDL	10.0	Lumber DOL		1.25		BC	0.46	Vert(CT)	-0.16	11-12	>999		240						
BCLL	0.0 *	Rep Stress Incr		NO		WB	0.67	Horz(CT)	0.02	10	n/a		n/a						
BCDL	10.0	Code FBC2023/TP12014				Matrix-S		Wind(LL)	0.05	11-12	>999		240		Weight: 291 lb		FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-4-0, 2=0-4-0, 10=0-4-0 (req. 0-5-5)
Max Horz 2=109(LC 7)
Max Uplift 8=-83(LC 8), 2=-265(LC 8), 10=-611(LC 8)
Max Grav 8=1875(LC 20), 2=3319(LC 1), 10=10533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6380/371, 3-4=-6573/437, 4-5=-2964/226, 5-6=-2969/226, 6-7=-131/2518, 7-8=-70/317
BOT CHORD 2-13=-297/5626, 12-13=-297/5626, 11-12=-325/5862, 10-11=-2210/174, 9-10=-258/47, 8-9=-258/47
WEBS 5-11=-124/2372, 6-11=-318/5941, 6-10=-6155/406, 7-10=-2432/151, 7-9=-73/2106, 4-11=-4046/300, 4-12=-203/3745, 3-12=-179/360, 3-13=-356/83

- 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 0-4-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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.
 - WARNING: Required bearing size at joint(s) 10 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=265, 10=611.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2771 lb down and 212 lb up at 7-1-8, 1363 lb down and 85 lb up at 9-0-12, 1363 lb down and 89 lb up at 11-0-12, 1524 lb down and 89 lb up at 13-0-12, 1363 lb down and 86 lb up at 15-0-12, 1368 lb down and 85 lb up at 17-0-12, 1368 lb down and 83 lb up at 19-0-12, and 1368 lb down and 82 lb up at 21-0-12, and 1375 lb down and 75 lb up at 23-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550356
6250760	B03	Common Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:55 2024 Page 2
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-dt6eyQXcaDbY6kj1Y8NONj2MqhZtaqK8BMEoIEyuX0E

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 2-8=-20
- Concentrated Loads (lb)
Vert: 8=-1375(B) 12=-2771(B) 14=-1363(B) 15=-1363(B) 16=-1363(B) 17=-1363(B) 18=-1368(B) 19=-1368(B) 20=-1368(B)

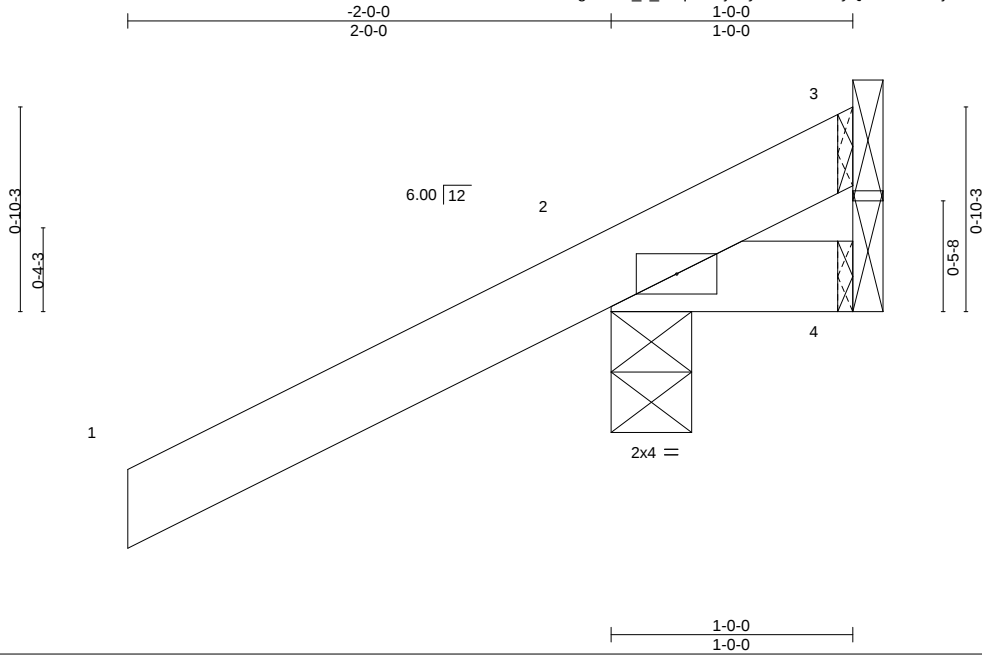
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550357
6250760	C1	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:55 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-dt6eyQXcaDbY6kj1Y8NONj2Oshgva_o8BMEoIEyuX0E



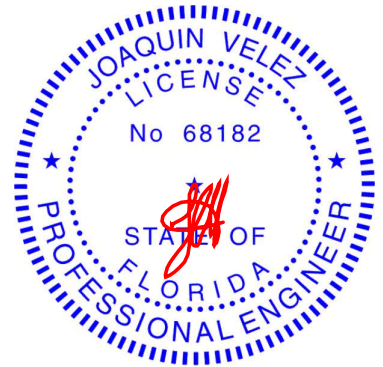
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=0-4-0, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=101(LC 1), 2=134(LC 12)
Max Grav 3=68(LC 12), 2=290(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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 (it=lb) 3=101, 2=134.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

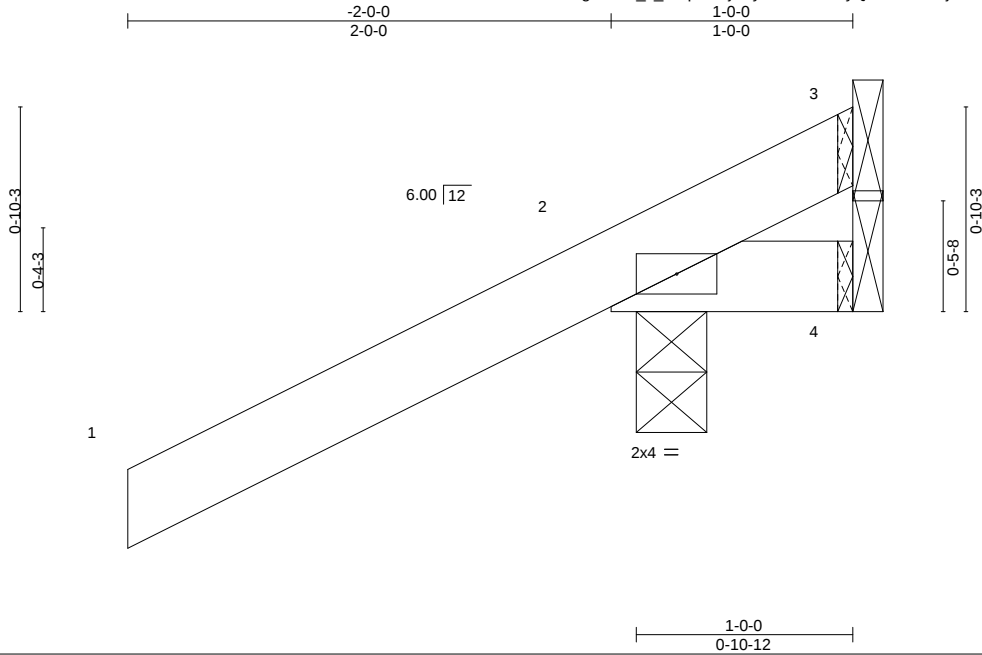
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550358
6250760	C1L	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:55 2024 Page 1
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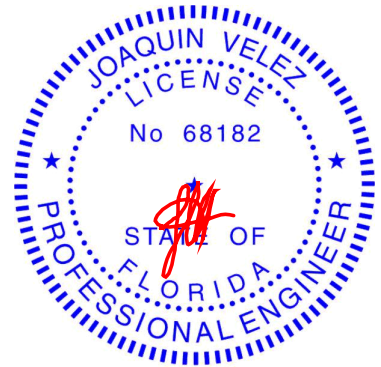
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.01	Vert(CT) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00	2	>999	240	Weight: 7 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=48(LC 12)
Max Uplift 3=-100(LC 1), 4=-2(LC 8), 2=-142(LC 12)
Max Grav 3=67(LC 12), 4=19(LC 3), 2=289(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left 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) 4 except (jt=lb) 3=100, 2=142.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

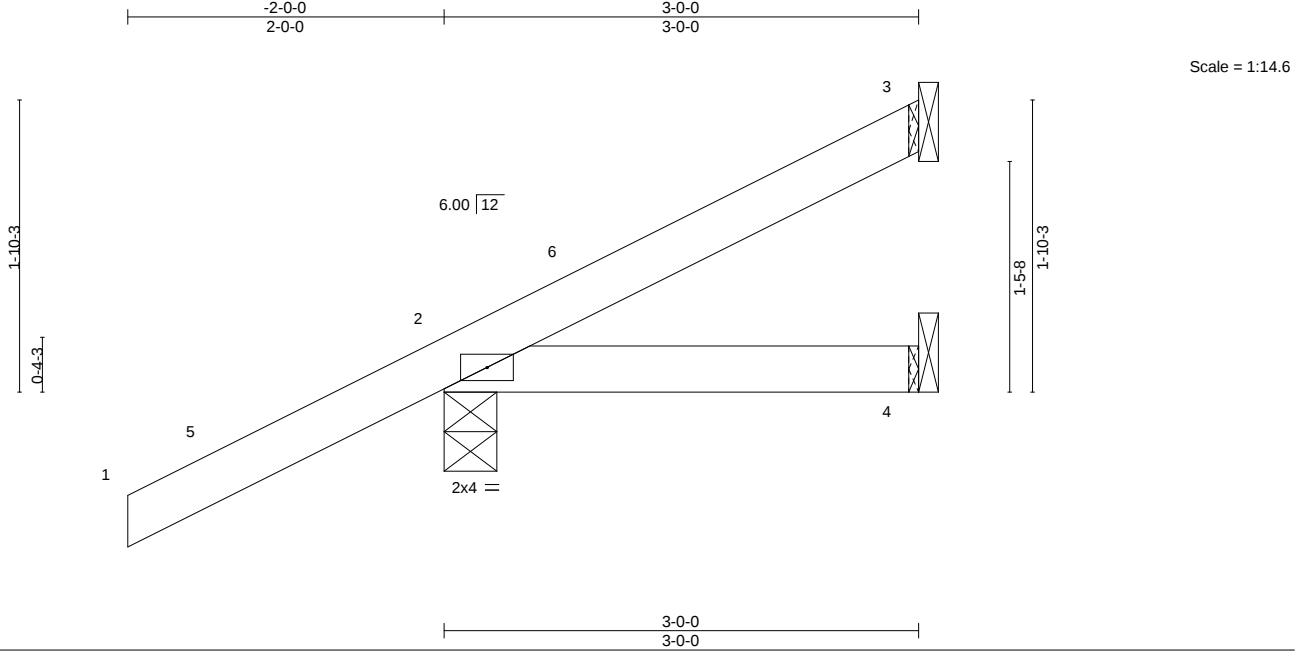
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550359
6250760	C3	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:56 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSa-53g0AmXELXjPkuIE5sudwwaYr5?xJR2IQ0zMrgyuX0D



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.33		Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09		Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

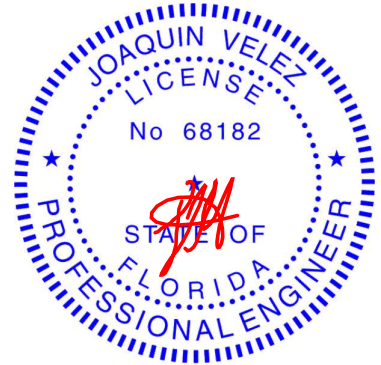
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-86(LC 12)
Max Grav 3=35(LC 17), 2=292(LC 1), 4=55(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

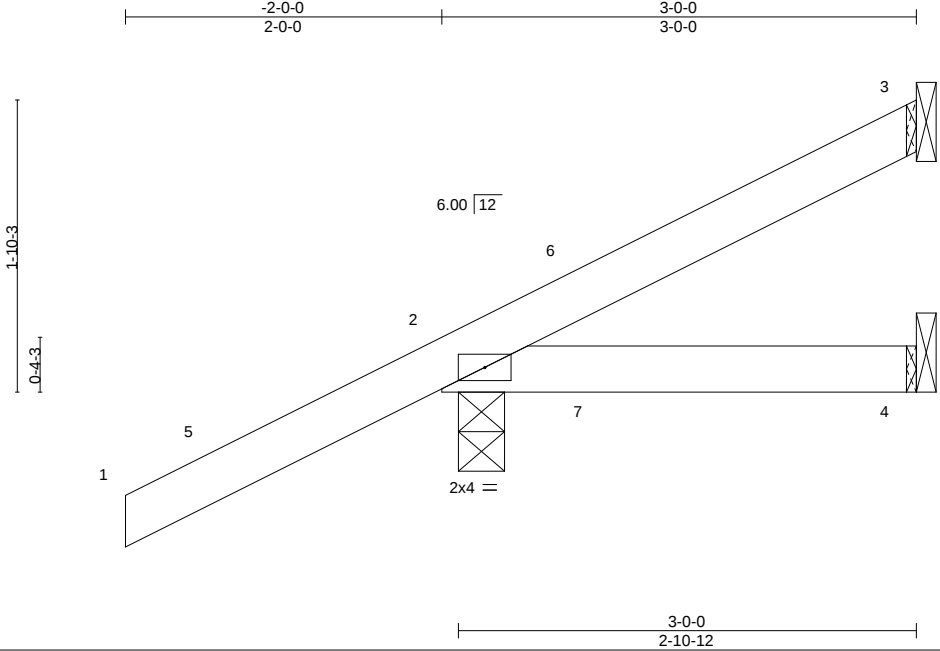
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550360
6250760	C3L	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:56 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-53g0AmXELXjPkulE5sudwwaYw5?vJR2IQ0zMrgyuX0D



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.33		Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09		Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2-4	>999	240	Weight: 13 lb	FT = 20%

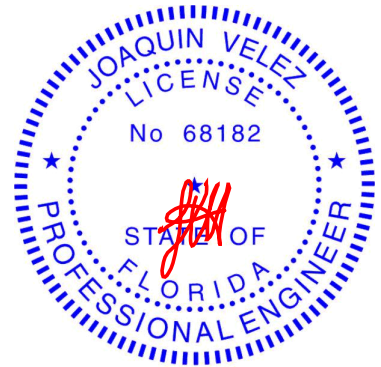
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 4=-7(LC 8), 2=-109(LC 12)
Max Grav 3=37(LC 17), 4=56(LC 3), 2=290(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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) 3, 4 except (jt=lb) 2=109.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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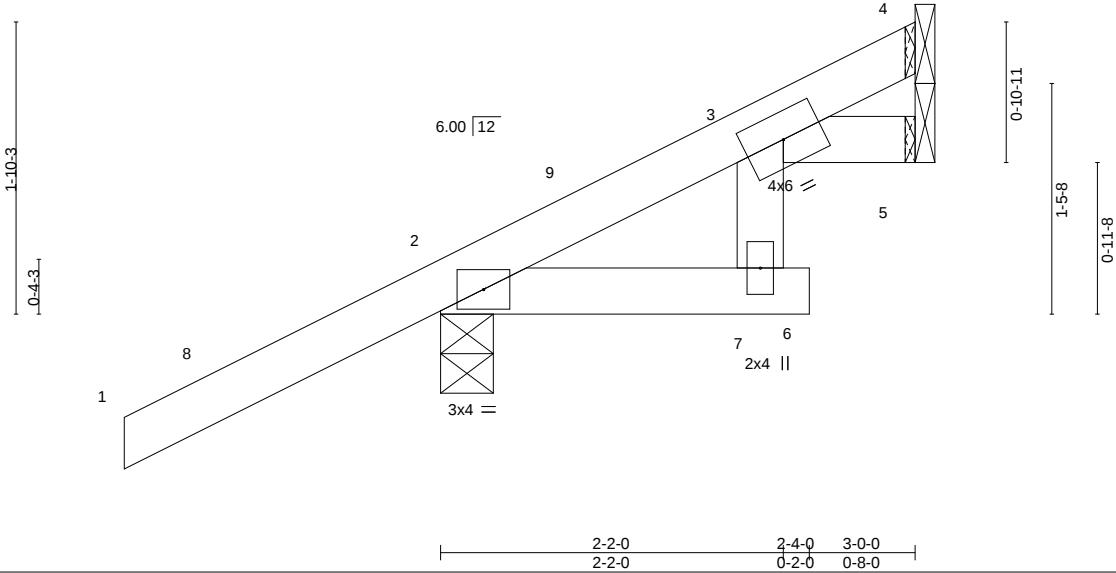
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550361
6250760	C3T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:57 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-ZFEON6Ys5rrGM2tQfZPsS87kpVJi2uIRfgjvN6yuX0C



Scale = 1:14.6



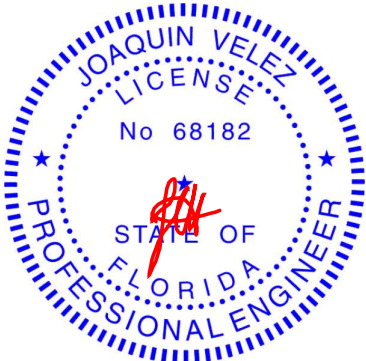
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.01	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-R	Wind(LL)	-0.00	7	>999	240	Weight: 14 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 4=-2(LC 9), 2=-85(LC 12)
Max Grav 4=39(LC 17), 2=293(LC 1), 5=43(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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) 4, 2.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

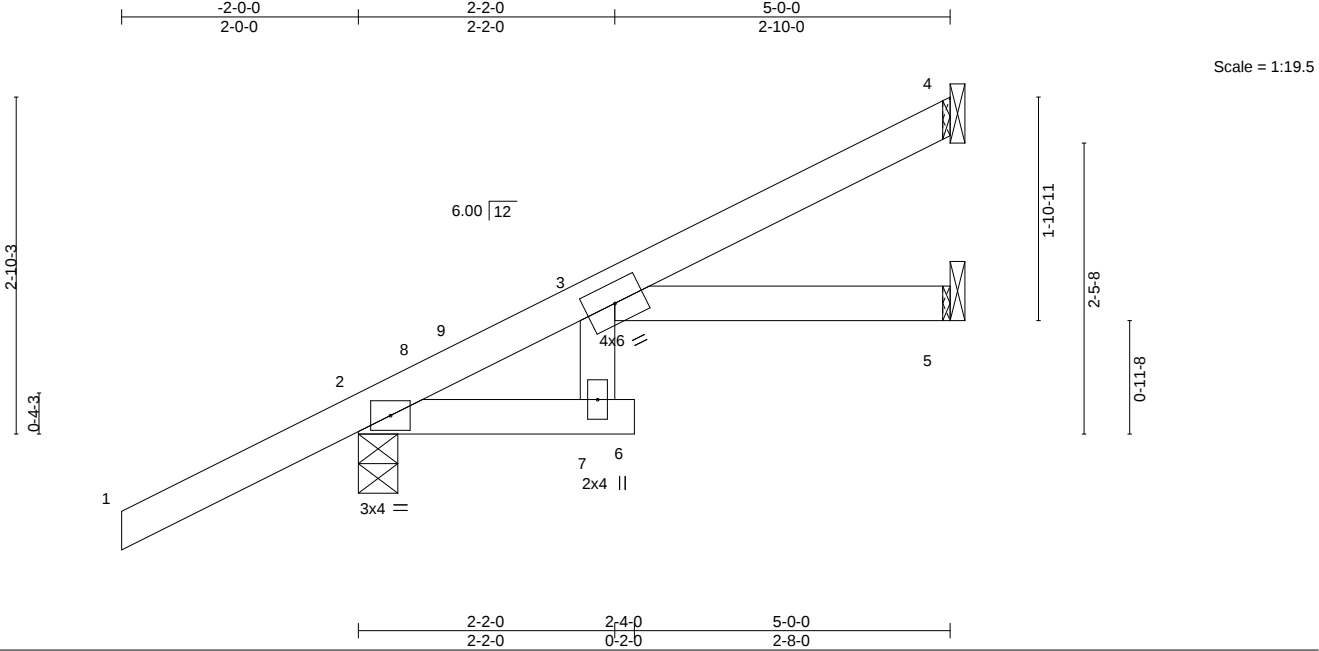
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550363
6250760	C5T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:58 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSa-1SombRZUs8z7zCScDHw5?LgvZveKnLYbtKSSvZyuX0B



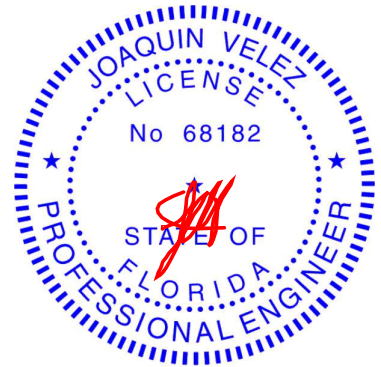
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.02	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.06	6	>946	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-R	Wind(LL)	0.04	6	>999	240	Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 4=-21(LC 12), 2=-69(LC 12)
Max Grav 4=102(LC 1), 2=354(LC 1), 5=82(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550364
6250760	D01	Common	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:58 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUJE7yRHSA-1SombRZUs8z7zCScDHw5?LgvivXnnKrbtKSSvZyuX0B
-2-0-0 4-11-6 8-4-0 11-8-11 16-8-0 18-8-0
2-0-0 4-11-6 3-4-11 3-4-11 4-11-6 2-0-0
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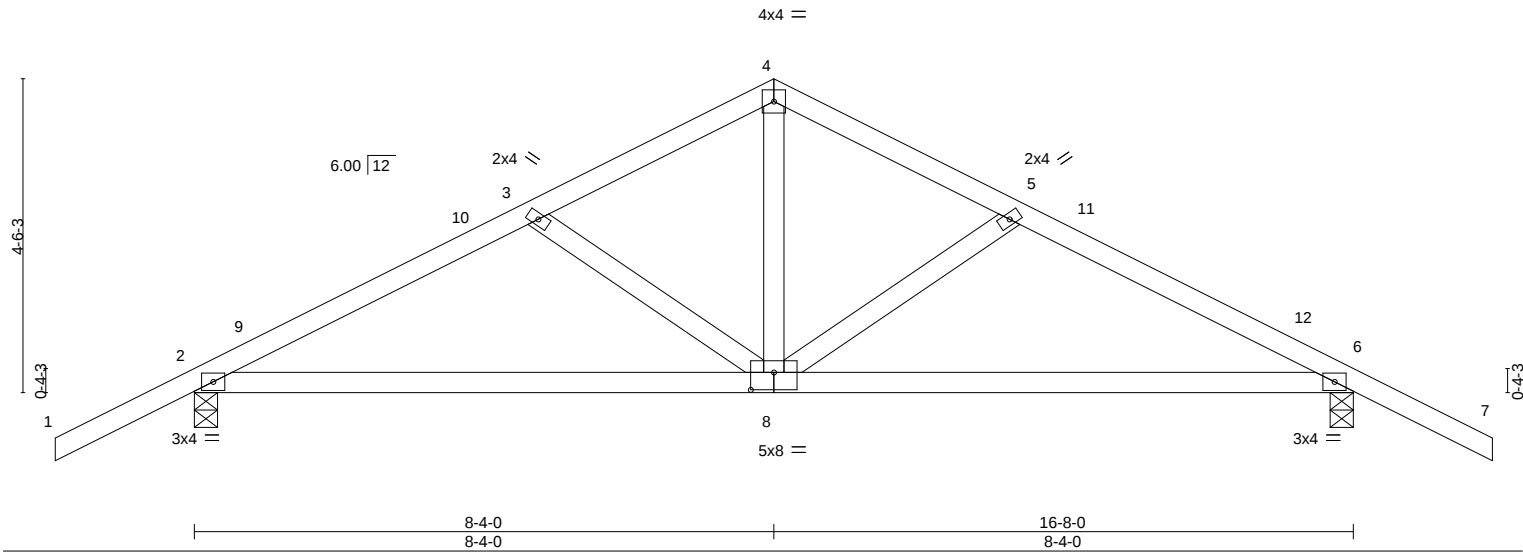


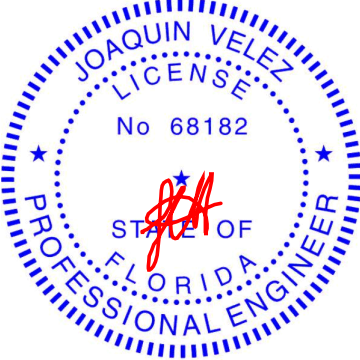
Plate Offsets (X,Y)--		[8:0-4-0,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.10	2-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.20	2-8	>966	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S	Wind(LL)	0.01	6-8	>999	240	Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=85(LC 11)
Max Uplift 2=-89(LC 12), 6=-89(LC 12)
Max Grav 2=783(LC 1), 6=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1013/157, 3-4=-770/110, 4-5=-770/110, 5-6=-1013/157
BOT CHORD 2-8=-45/838, 6-8=-68/838
WEBS 4-8=-10/484, 5-8=-250/135, 3-8=-250/135

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-4-0, Zone2 8-4-0 to 12-6-15, Zone1 12-6-15 to 18-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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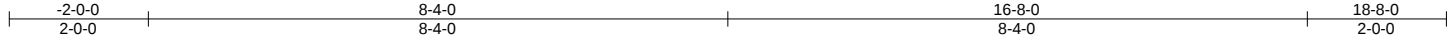
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550365
6250760	D01X	Common Supported Gable	1	1	Job Reference (optional)	

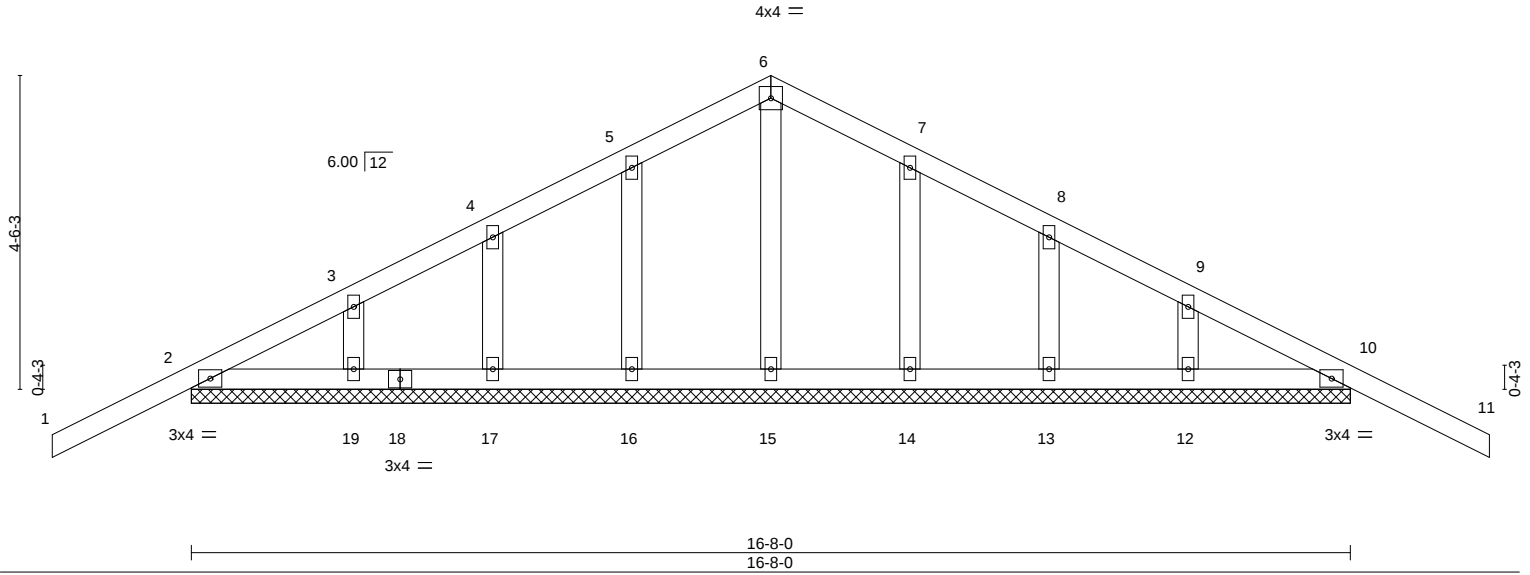
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:59 2024 Page 1

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Scale = 1:33.1



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.26	Vert(LL)	-0.03	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.04	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 83 lb	FT = 20%

LUMBER-

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

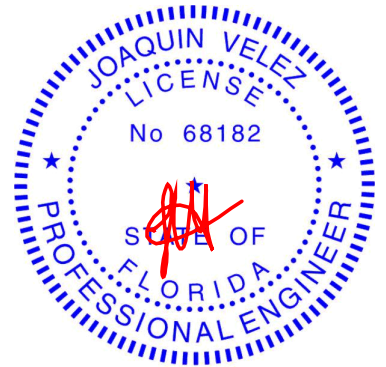
REACTIONS.

All bearings 16-8-0.
(lb) - Max Horz 2=-85(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 14, 13, 10
Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 19, 14, 13, 12 except 2=266(LC 1), 10=266(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 14, 13, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550366
6250760	ESL	Jack-Open	3	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:22:59 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUJE7yRHSA-VeM8ona6dS5_bL1pn_RKYZC4PlzZWook6_C0R?yuX0A

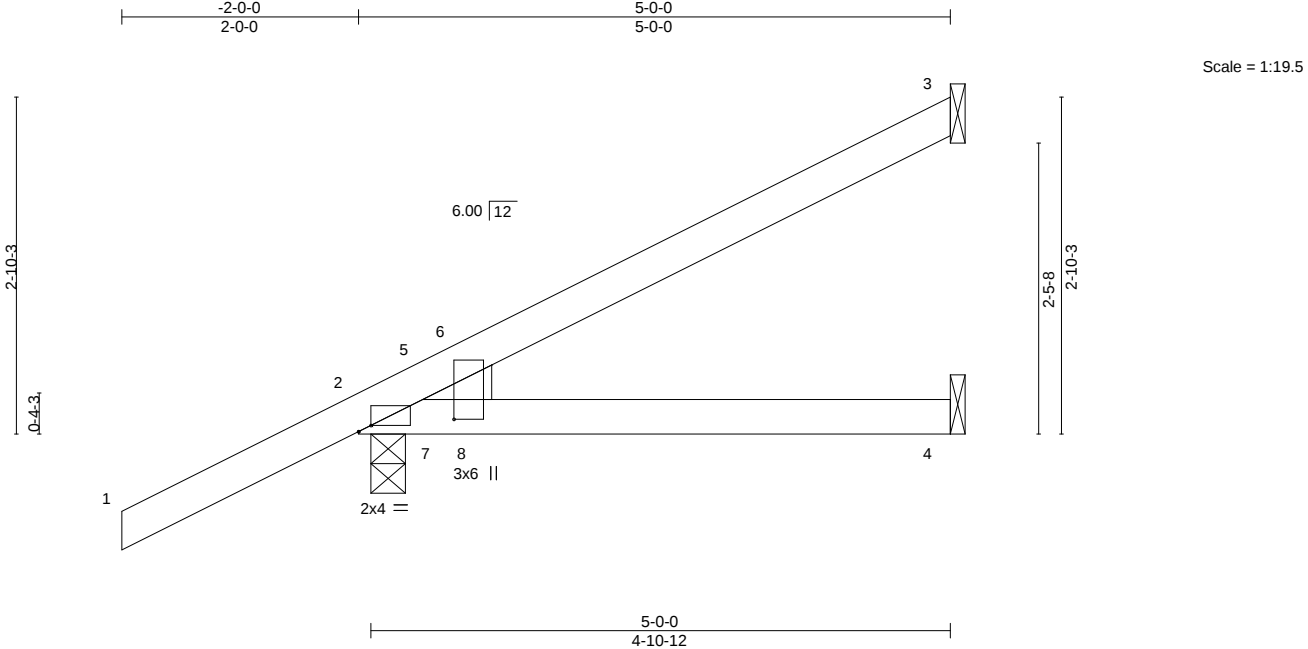


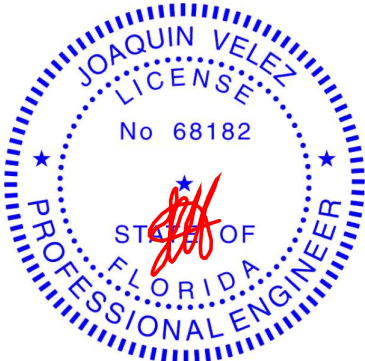
Plate Offsets (X,Y)--		[2:0-1-4,Edge], [2:0-1-4,0-9-11]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31
TCDL 10.0	Lumber DOL	1.25	BC 0.28
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.03 2-4 >999 360
			Vert(CT) -0.06 2-4 >909 240
			Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.03 2-4 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 20 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=95(LC 12)
Max Uplift 3=36(LC 12), 4=12(LC 8), 2=111(LC 12)
Max Grav 3=115(LC 1), 4=96(LC 3), 2=349(LC 1)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; cantilever left 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) 3, 4 except (jt=lb) 2=111.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

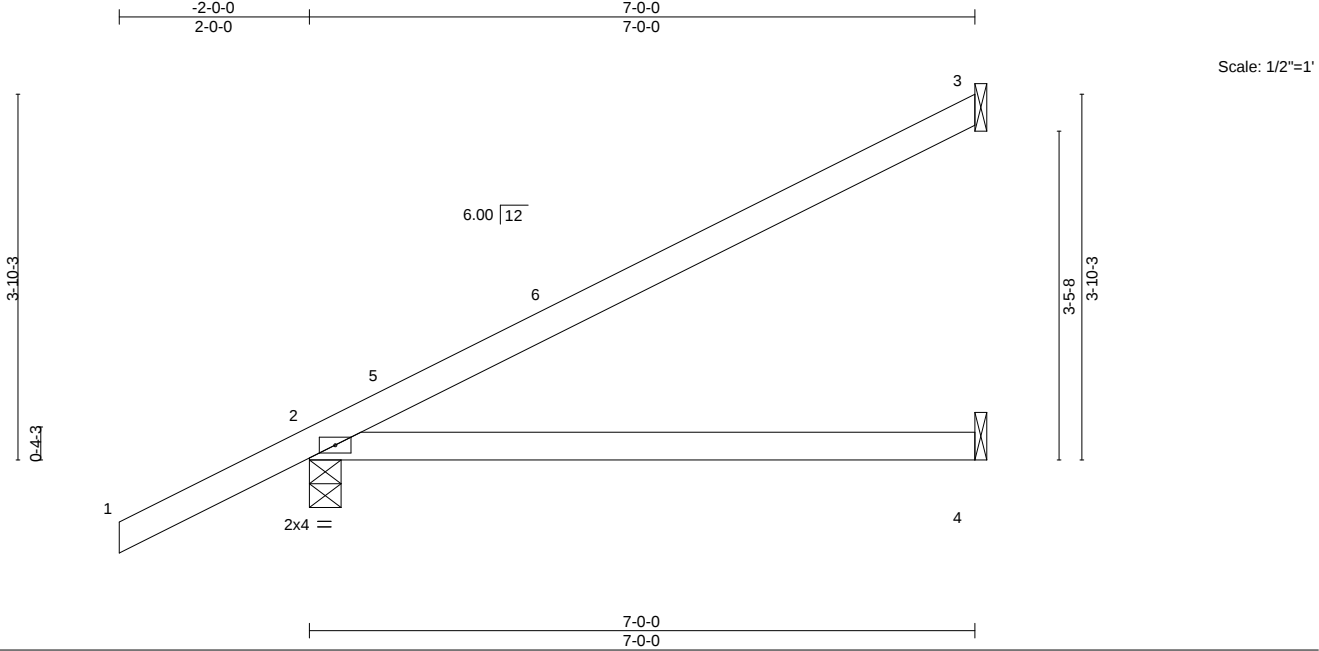
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550367
6250760	E7	Jack-Open	26	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:00 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUJE7yRHSa-_qwX?7akOmDrDVc?KizZ4ml8_iErFF1tLexZ_RyuX09



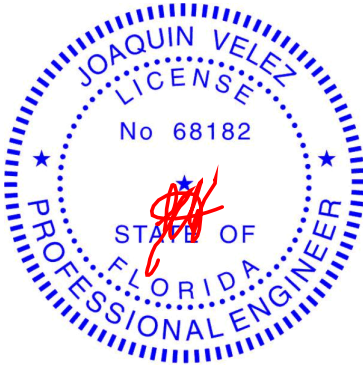
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.13	2-4	>645	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25	2-4	>322	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 26 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.

REACTIONS.	(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz	2=119(LC 12)
Max Uplift	3=-62(LC 12), 2=-63(LC 12)
Max Grav	3=182(LC 1), 2=422(LC 1), 4=135(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550368
6250760	E7T	Jack-Open	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:00 2024 Page 1
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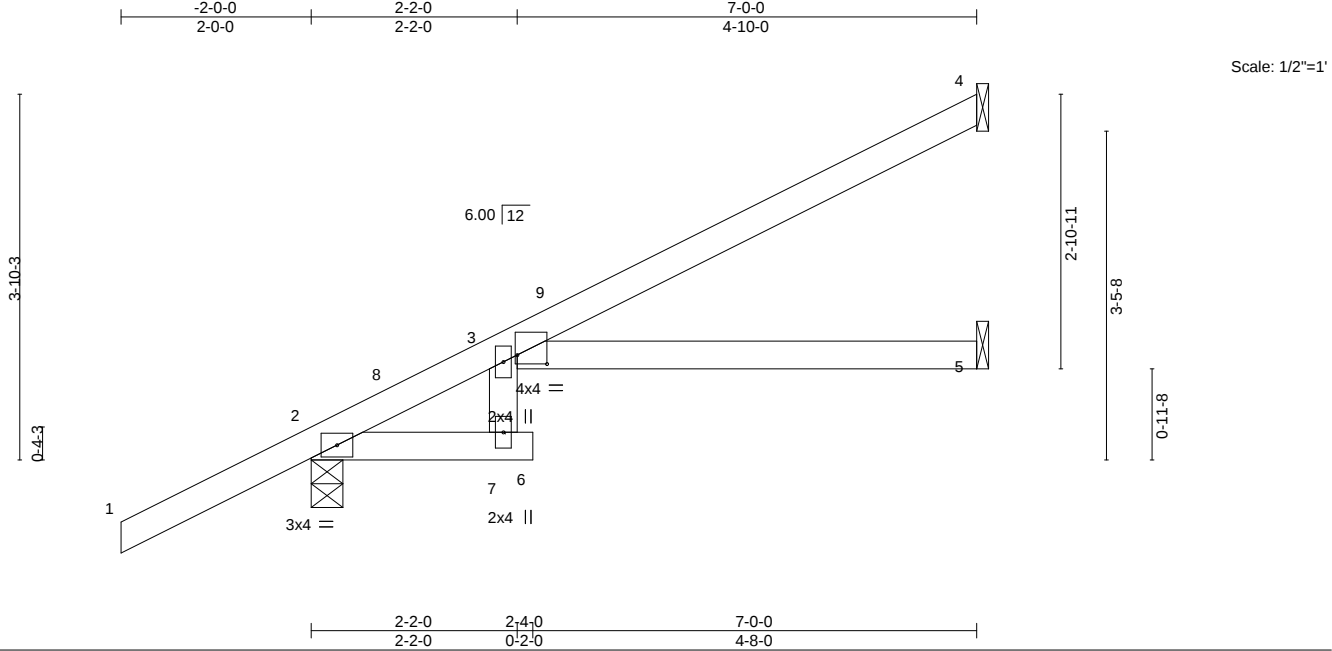


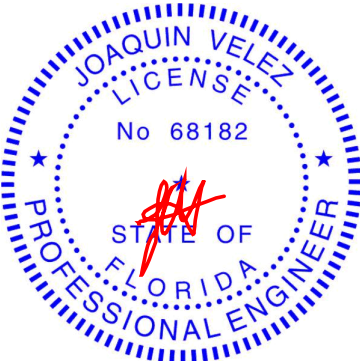
Plate Offsets (X,Y)--		[3:0-3-12,0-1-2]	
LOADING (psf)		SPACING-	2-0-0
TCLL	20.0	Plate Grip DOL	1.25
TCDL	10.0	Lumber DOL	1.25
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	FBC2023/TPI2014
		CSI.	
		TC	0.56
		BC	0.53
		WB	0.00
		Matrix-R	
		DEFL.	
		in (loc)	I/defl
		Vert(LL)	-0.10 3-5 >812 360
		Vert(CT)	-0.23 3-5 >354 240
		Horz(CT)	0.11 5 n/a n/a
		Wind(LL)	0.12 3-5 >702 240
		PLATES	GRIP
		MT20	244/190
		Weight: 27 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.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 4=-41(LC 12), 2=-61(LC 12)
Max Grav 4=160(LC 1), 2=426(LC 1), 5=121(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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) 4, 2.



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

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550369
6250760	G01X	Common Supported Gable	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:01 2024 Page 1
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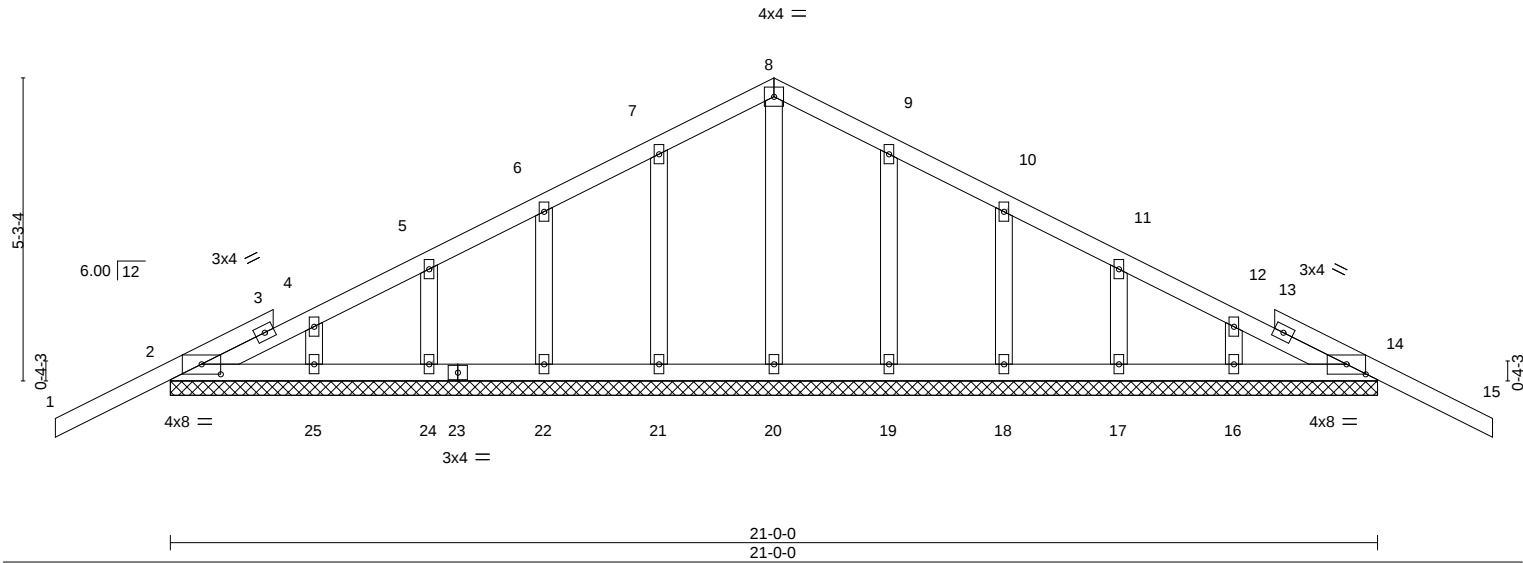


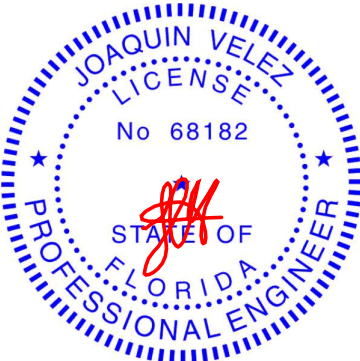
Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [14:0-4-0,0-2-1]											
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25		TC	0.26	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.04	Vert(CT)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-S							Weight: 111 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.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-0-0.
(lb) - Max Horz 2=97(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 24, 25, 19, 18, 17, 16 except 2=264(LC 1), 14=264(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 19, 18, 17.



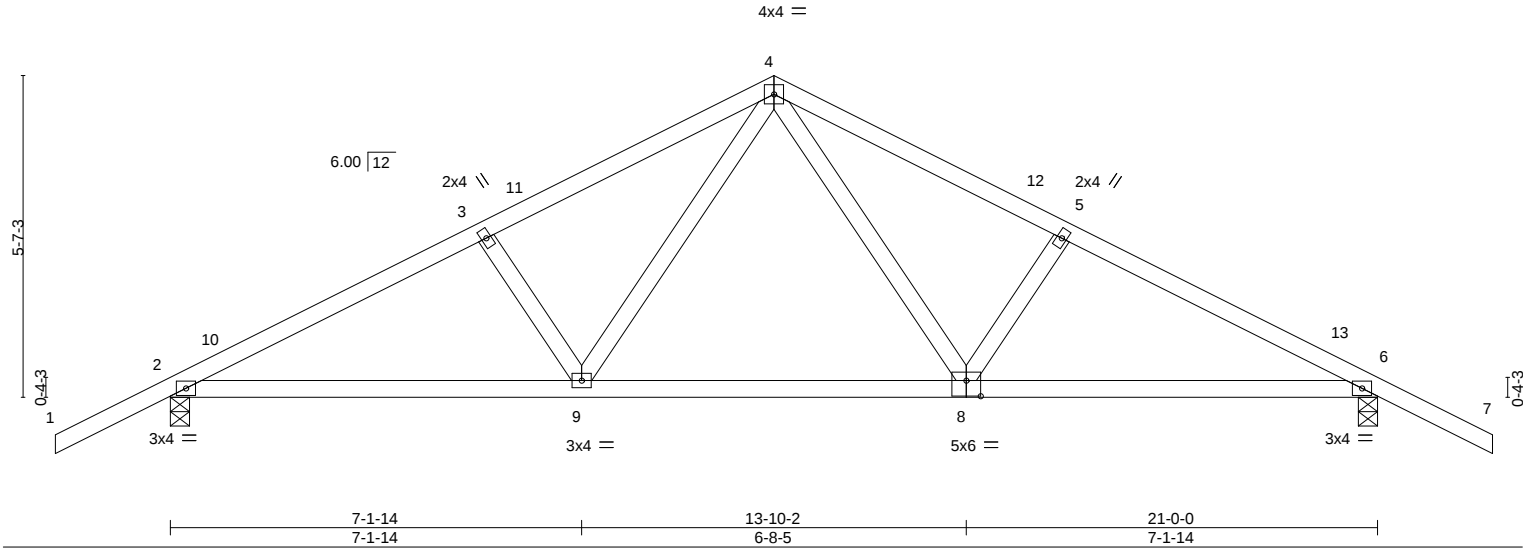
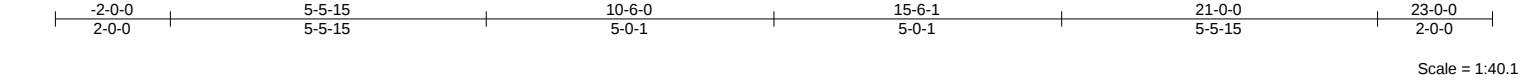
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550370
6250760	G02	Common	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:01 2024 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.07	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.25				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.04				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03				
								Weight: 100 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=103(LC 11)
Max Grav 2=1090(LC 1), 6=1090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1703/0, 3-4=-1533/0, 4-5=-1533/0, 5-6=-1703/0
BOT CHORD 2-9=0/1445, 8-9=0/982, 6-8=0/1445
WEBS 4-8=0/615, 5-8=-270/150, 4-9=0/615, 3-9=-270/150

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-6-0, Zone2 10-6-0 to 14-8-15, Zone1 14-8-15 to 23-0-0 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.
 - 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.
 - 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	Uniform Loads (plf)
	Vert: 1-4=-60, 4-7=-60, 2-9=-20, 8-9=-60, 6-8=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	Uniform Loads (plf)
	Vert: 1-4=-50, 4-7=-50, 2-9=-20, 8-9=-60, 6-8=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25	Uniform Loads (plf)
	Vert: 1-4=-20, 4-7=-20, 2-9=-40, 8-9=-80, 6-8=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60	



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550370
6250760	G02	Common	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:01 2024 Page 2
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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=47, 2-10=32, 4-10=18, 4-12=26, 6-12=18, 6-7=14, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-55, 2-10=-40, 4-10=-27, 4-12=35, 6-12=27, 6-7=22
- 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=14, 2-11=18, 4-11=26, 4-13=18, 6-13=32, 6-7=47, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-22, 2-11=-27, 4-11=-35, 4-13=27, 6-13=40, 6-7=55
- 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=-8, 2-4=-33, 4-6=-33, 6-7=-28, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-12, 2-4=13, 4-6=-13, 6-7=-8
- 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=-28, 2-4=-33, 4-6=-33, 6-7=-8, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=8, 2-4=13, 4-6=-13, 6-7=12
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=9, 6-7=4, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=17, 6-7=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=9, 4-6=3, 6-7=15, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-13, 2-4=-17, 4-6=11, 6-7=24
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-4=-28, 4-6=-12, 6-7=-7, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=4, 2-4=8, 4-6=8, 6-7=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-28, 6-7=-24, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-13, 2-4=-8, 4-6=-8, 6-7=-4
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=15, 4-6=15, 6-7=28, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-37, 2-4=-24, 4-6=24, 6-7=37
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=3, 6-7=15, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=11, 6-7=24
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-9=-20, 8-9=-60, 6-8=-20
- 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=-53, 2-4=-56, 4-6=-44, 6-7=-40, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=3, 2-4=6, 4-6=6, 6-7=10
- 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=-40, 2-4=-44, 4-6=-56, 6-7=-53, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-10, 2-4=-6, 4-6=-6, 6-7=-3
- 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=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 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=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-60, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=-25, 4-7=-25, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-2=-16, 2-4=16, 4-7=-16
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=8, 4-7=8, 2-9=-12, 8-9=-52, 6-8=-12
Horz: 1-4=-16, 4-7=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550370
6250760	G02	Common	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:01 2024 Page 3
ID:lLvgrdrRfc_J_b2qMEUjE7yRHSA-S0TvDTbM93LiqfBBuPUod_IPI6XT_g71ZIh7WuyuX08

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-20, 2-9=-20, 8-9=-60, 6-8=-20
 - 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-60, 2-9=-20, 8-9=-60, 6-8=-20
 - 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-20, 2-9=-20, 8-9=-60, 6-8=-20
 - 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-50, 2-9=-20, 8-9=-60, 6-8=-20

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

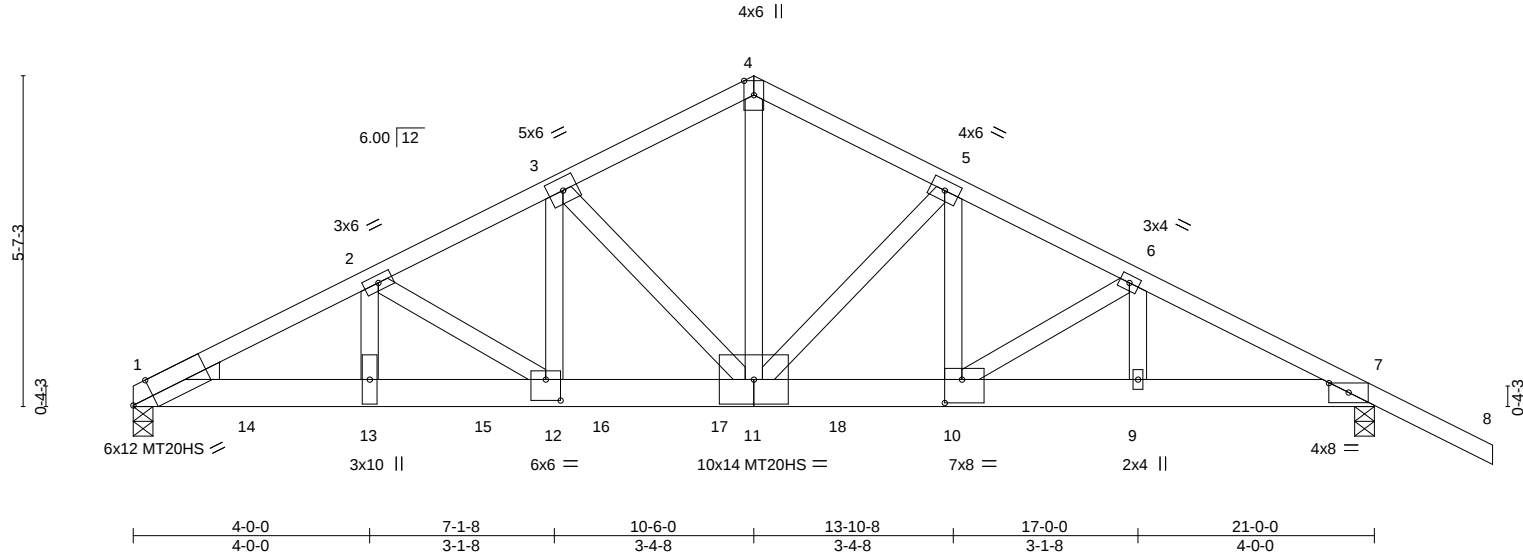
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550371
6250760	G03	Common Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),		Ocala, FL - 34472,		8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:02 2024 Page 1		
				ID:ILvgrdrRfc_j_b2qMEUjE7yRHSa-wD1HQpcwNTZSpIOS6719BqVwWu0jxlAoyQg2KyuX07		
4-0-0	7-1-8	10-6-0	13-10-8	17-0-0	21-0-0	23-0-0
4-0-0	3-1-8	3-4-8	3-4-8	3-1-8	4-0-0	2-0-0

Scale = 1:39.0



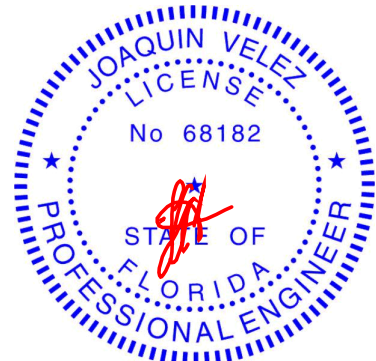
LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.18 10-11 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.36 10-11 >689 240	MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09 7 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.11 10-11 >999 240				
								Weight: 266 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31 or 2x4 SP SS *Except* 4-8: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins.
BOT CHORD	2x6 SP DSS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 1=0-4-0 (req. 0-4-1), 7=0-4-0
Max Horz 1=-99(LC 6)
Max Uplift 1=-419(LC 8), 7=-398(LC 8)
Max Grav 1=8034(LC 1), 7=6050(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-15442/819, 2-3=-12705/706, 3-4=-9705/576, 4-5=-9705/576, 5-6=-12410/723, 6-7=-12235/660
BOT CHORD 1-13=-663/13717, 12-13=-663/13717, 11-12=-523/11342, 10-11=-538/11073, 9-10=-516/10840, 7-9=-516/10840
WEBS 4-11=-457/8382, 5-11=-3486/247, 5-10=-192/3555, 6-10=-198/373, 6-9=-325/84, 3-11=-3875/225, 3-12=-171/3956, 2-12=-2809/165, 2-13=-90/2632

- 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 0-3-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING:** Required bearing size at joint(s) 1 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=419, 7=398.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550371
6250760	G03	Common Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:02 2024 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1527 lb down and 86 lb up at 1-11-4, 1527 lb down and 86 lb up at 3-11-4, 1527 lb down and 86 lb up at 5-11-4, 1667 lb down and 86 lb up at 7-11-4, 1533 lb down and 86 lb up at 9-11-4, and 1530 lb down and 92 lb up at 11-11-4, and 3129 lb down and 220 lb up at 13-10-8 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: 1-4=-60, 4-8=-60, 1-7=-20

Concentrated Loads (lb)

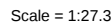
Vert: 10=-3129(B) 13=-1527(B) 14=-1527(B) 15=-1527(B) 16=-1527(B) 17=-1533(B) 18=-1530(B)

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Chesterfield, MO 63017
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:02 2024 Page 1
 ID:lvgrdrRfc_J_b2qMEUjE7yRHSA-wD1HQpc?wNTZSplOS6?19Bqc6W1Xj9qAoyQg2KyuX07
 8-7-8 10-0-0
 8-7-8 1-4-8



NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 8-7-8, Zone3 8-7-8 to 9-10-4 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
- 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) 5, 6, 7.



July 26, 2024

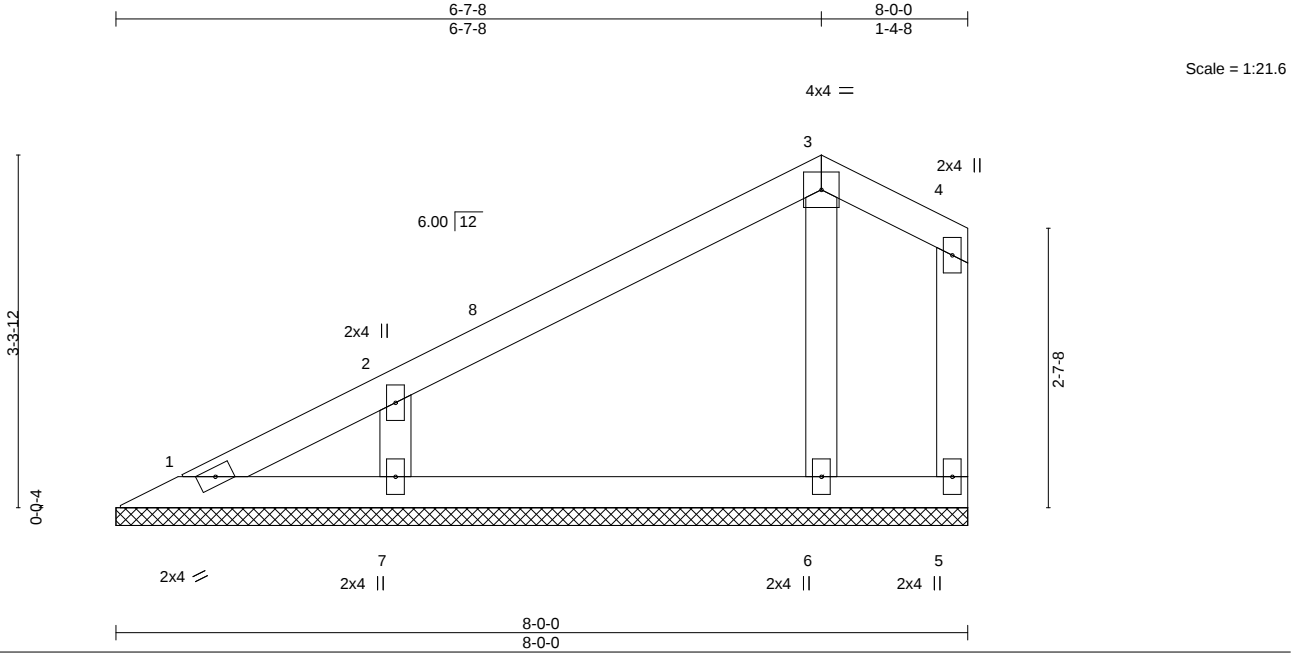


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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550373
6250760	GV2	GABLE	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:03 2024 Page 1
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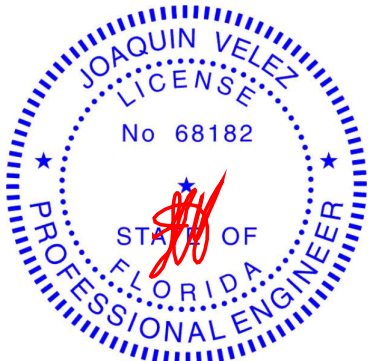
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P					Weight: 33 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.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 1=57(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=318(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 6-7-8, Zone3 6-7-8 to 7-10-4 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
 - 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) 5, 7.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

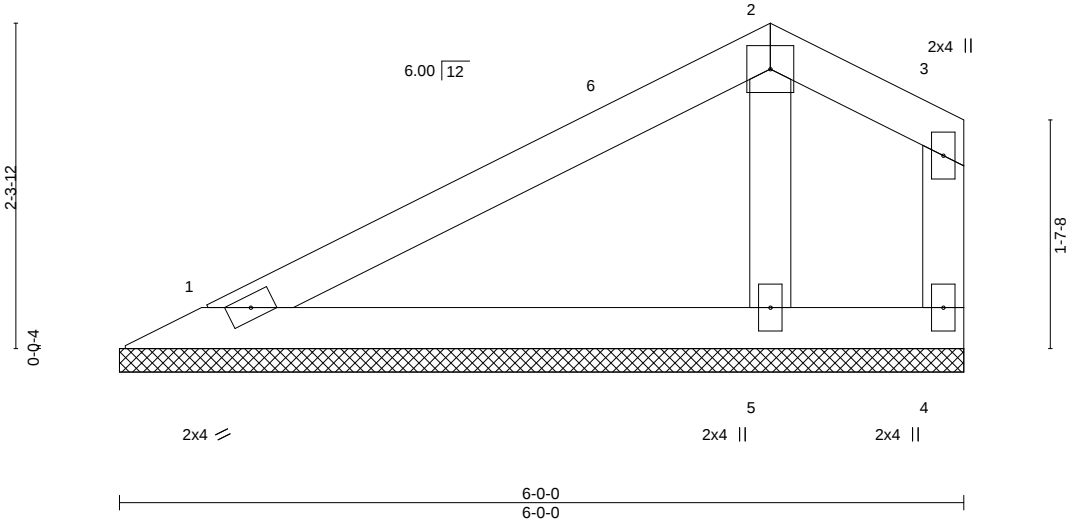
July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550374
6250760	GV3	GABLE	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:03 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUJE7yRHSa-OPbfe9ddhbbQ4zKaQqWGIPNmZwOwScNK1cADbmyuX06



4x4 = Scale = 1:16.4



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 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00		n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

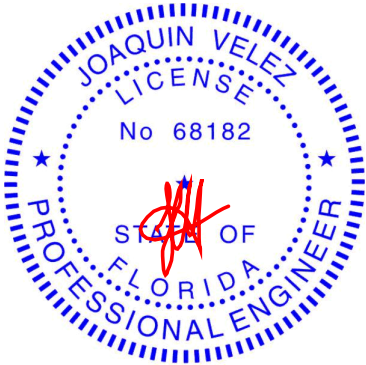
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=6-0-0, 4=6-0-0, 5=6-0-0
Max Horz 1=33(LC 12)
Max Uplift 1=-7(LC 12), 4=-21(LC 12)
Max Grav 1=152(LC 1), 4=24(LC 1), 5=242(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 4-7-8, Zone3 4-7-8 to 5-10-4 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
- 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, 4.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550375
6250760	GV4	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:03 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-OPbfe9ddhbbQ4zKa0qWGiPNpBwOUScnK1cADbmyuX06

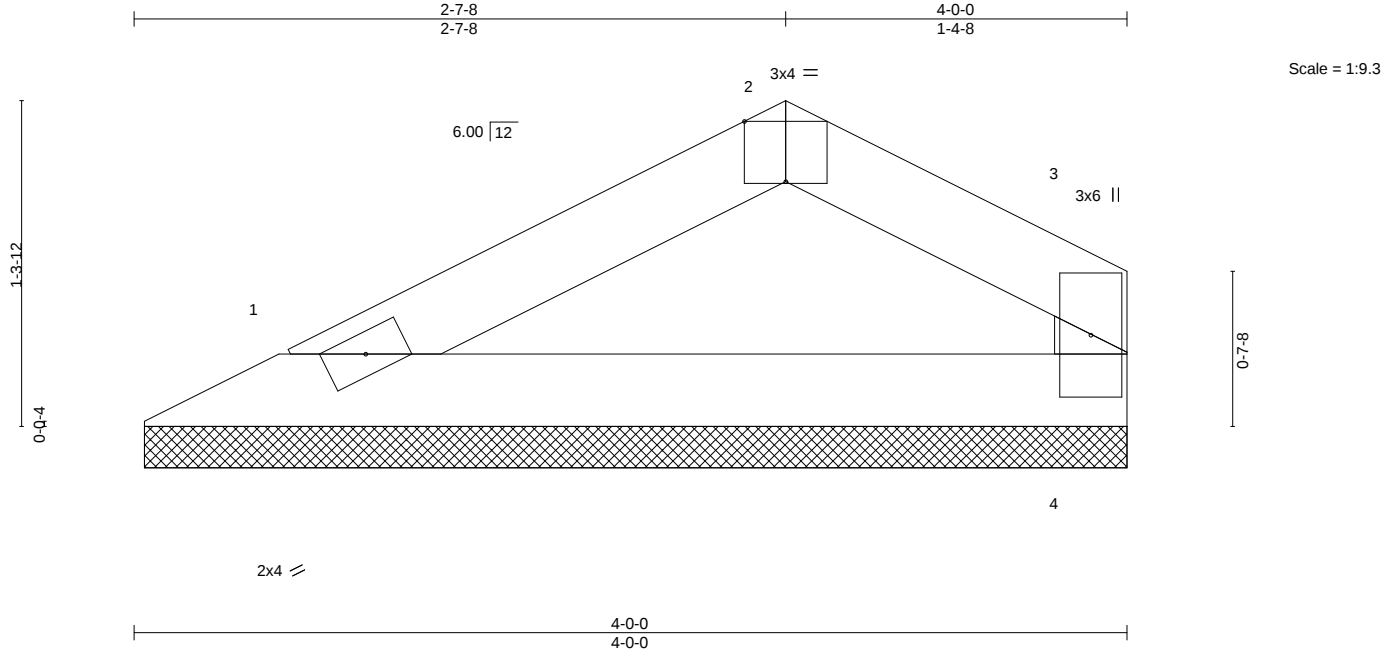


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.07
TCDL 10.0	Lumber DOL	1.25	BC 0.09
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-R
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	0.00	4	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 12 lb		FT = 20%	

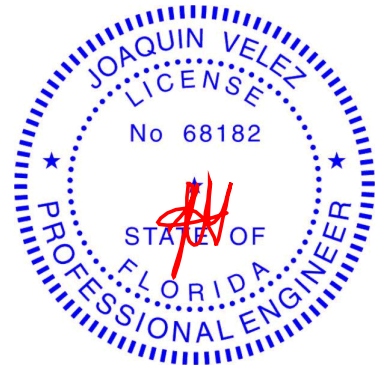
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=3-11-8, 4=3-11-8
Max Horz 1=13(LC 11)
Max Uplift 1=-5(LC 12), 4=-6(LC 12)
Max Grav 1=129(LC 1), 4=129(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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, 4.



Joaquin Velez PE No.68182
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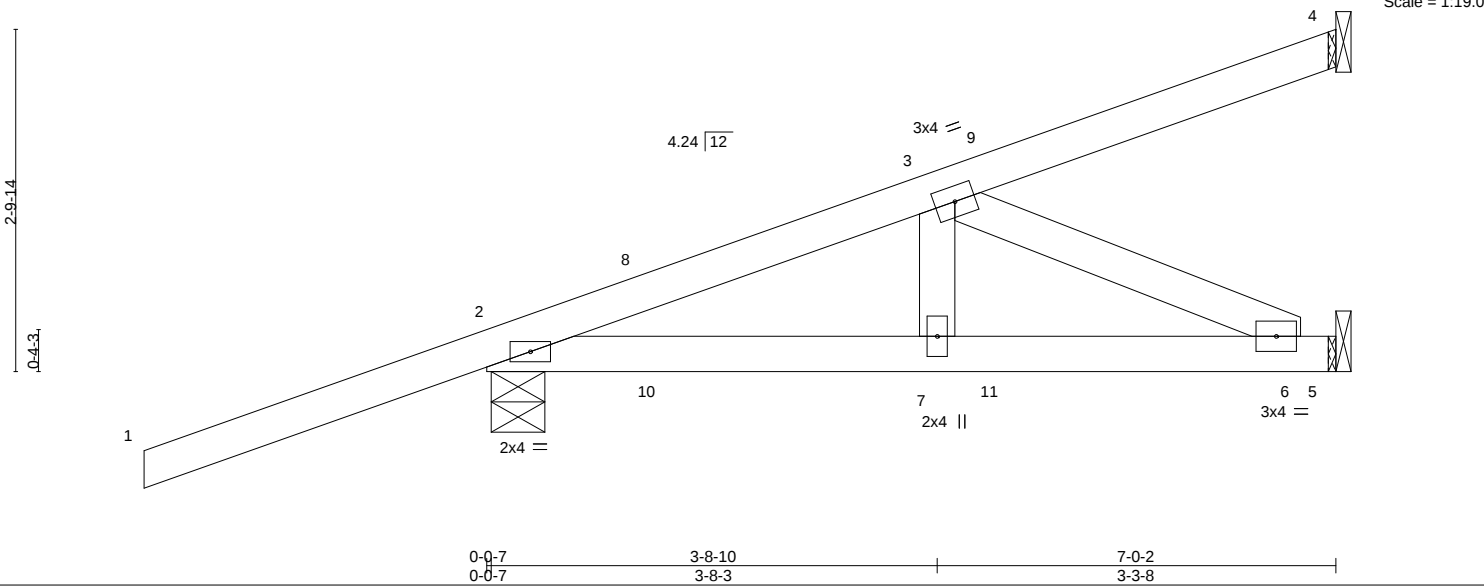
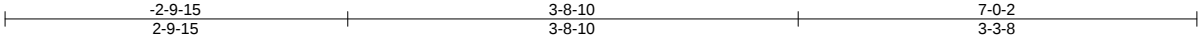
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550376
6250760	H5L	Diagonal Hip Girder	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:04 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-sb91rVdFS_jHh7vmZX1VFcwmEJhSB2DTGGvn7DyuX05



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.95	in	(loc)	l/defl	L/d	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(LL)	-0.01	2-7	>999				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Vert(CT)	-0.01	2-7	>999				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Horz(CT)	0.00	5	n/a				
						Wind(LL)	0.01	6-7	>999				
										Weight: 32 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.2		

REACTIONS. (size) 4=Mechanical, 2=0-5-5, 5=Mechanical
Max Horz 2=95(LC 8)
Max Uplift 4=-35(LC 27), 2=-229(LC 8), 5=-57(LC 5)
Max Grav 4=125(LC 19), 2=417(LC 31), 5=122(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-331/110
WEBS 3-6=-264/130

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left 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.
 - 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=229.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 185 lb up at 1-4-15, 87 lb down and 185 lb up at 1-4-15, and 54 lb down and 23 lb up at 4-2-15, and 54 lb down and 23 lb up at 4-2-15 on top chord, and 8 lb up at 1-4-15, 8 lb up at 1-4-15, and 11 lb down and 24 lb up at 4-2-15, and 11 lb down and 24 lb up at 4-2-15 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

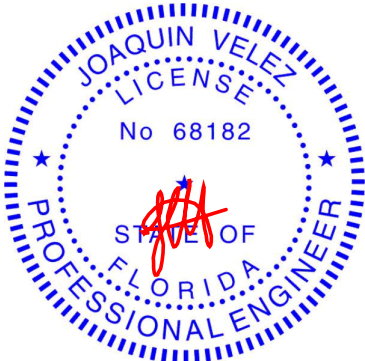
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 8=123(F=62, B=62)



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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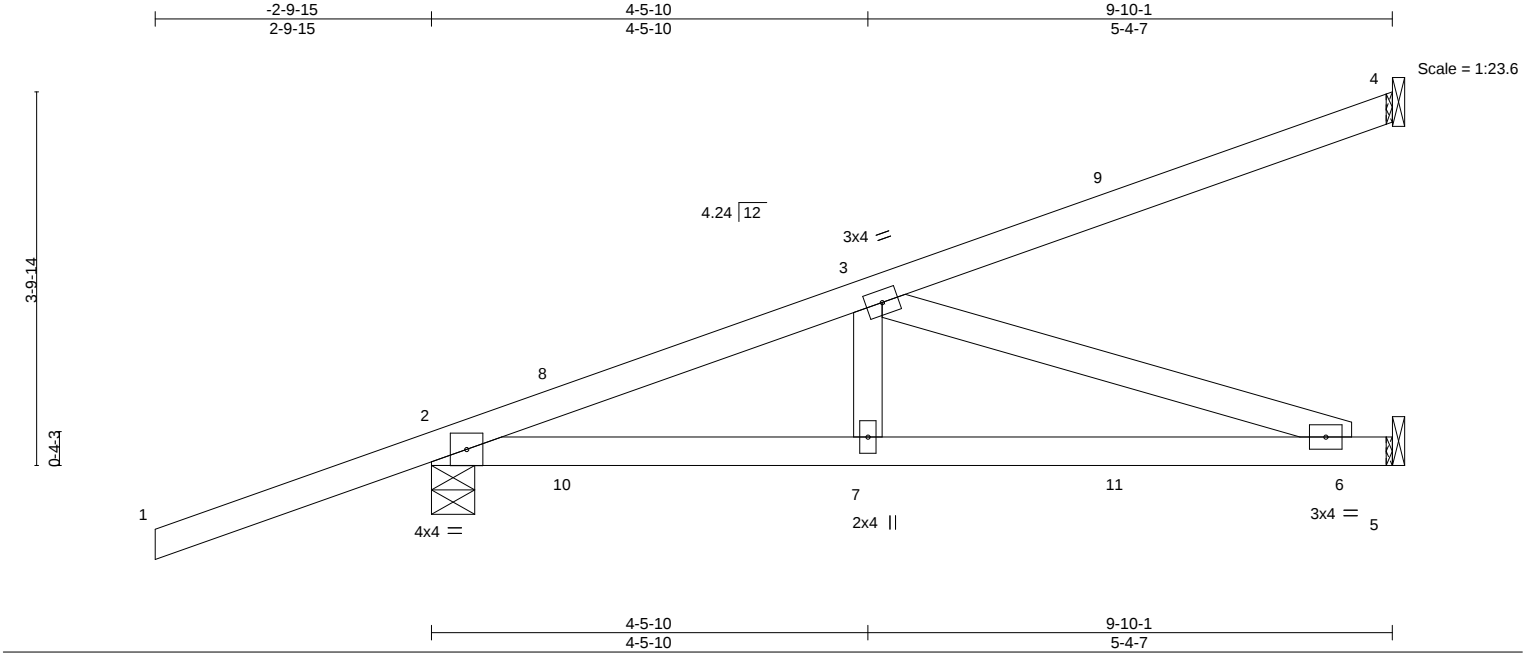
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550377
6250760	H7	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:04 2024 Page 1
ID: lLvgrdrRfc_J_b2qMEUJE7yRHSA-sb91rVdFS_jHh7vmZX1VFcwp7JaqBzkTGGvn7DyuX05



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	Vert(LL) -0.06	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.66	Vert(CT) -0.14	6-7	>843	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.34	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) -0.03	2-7	>999	240	Weight: 44 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-5-5, 5=Mechanical
Max Horz 2=119(LC 27)
Max Uplift 4=-50(LC 8), 2=-171(LC 8)
Max Grav 4=164(LC 1), 2=583(LC 31), 5=271(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-785/22
BOT CHORD 2-7=-54/667, 6-7=-54/667
WEBS 3-7=0/287, 3-6=-702/57

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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.
 - 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 except (jt=lb) 2=171.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 186 lb up at 1-4-15, 88 lb down and 186 lb up at 1-4-15, 54 lb down and 23 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 82 lb down and 56 lb up at 7-0-14, and 82 lb down and 56 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 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

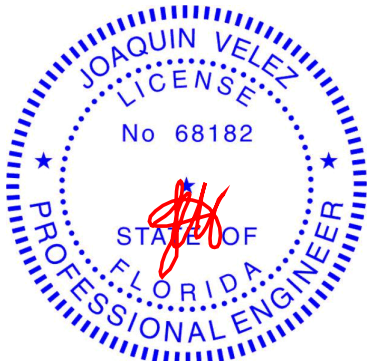
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 8=124(F=62, B=62) 9=-58(F=-29, B=-29) 11=-39(F=-19, B=-19)



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550378
6250760	H7T	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:05 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-KojQ3retDlr8JHUY7FYknqS1fjxowSndUwfkfyuX04

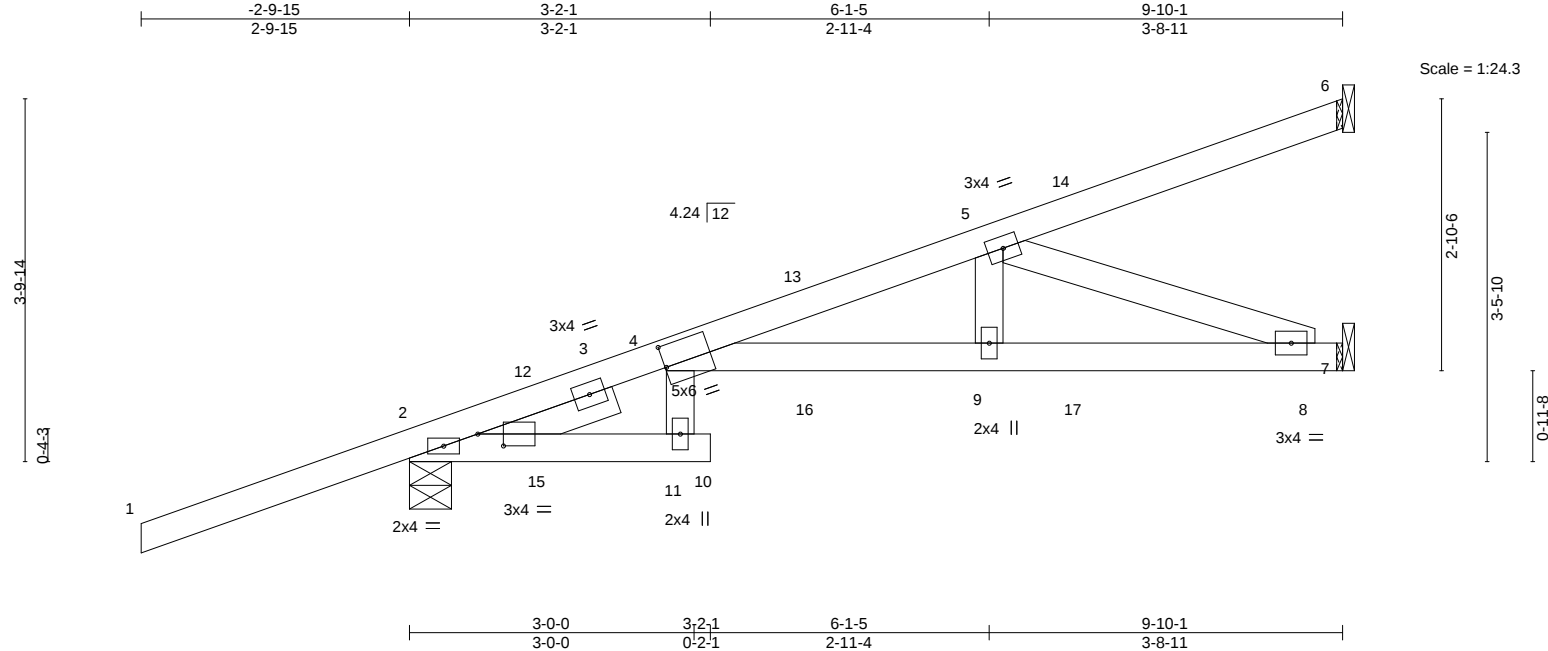


Plate Offsets (X,Y)--		[2:0-3-4,0-1-8], [4:0-0-3,0-2-12]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.15	10	>775	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.28	10	>415	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	-0.20	10	>568	240	Weight: 45 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 2-11.
SLIDER Left 2x4 SP No.2 1-6-0	

REACTIONS. (size) 6=Mechanical, 2=0-5-5, 7=Mechanical
Max Horz 2=119(LC 27)
Max Uplift 6=-26(LC 8), 2=-159(LC 8)
Max Grav 6=88(LC 19), 2=602(LC 31), 7=358(LC 32)

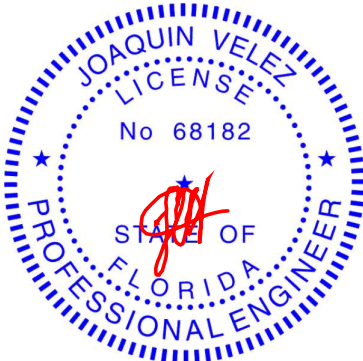
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-1018/0
BOT CHORD 4-9=-14/970, 8-9=-14/970
WEBS 5-9=0/293, 5-8=-1033/15

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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) 6 except (jt=lb) 2=159.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 186 lb up at 1-4-15, 88 lb down and 186 lb up at 1-4-15, 52 lb down and 17 lb up at 4-2-15, 52 lb down and 17 lb up at 4-2-15, and 81 lb down and 46 lb up at 7-0-14, and 81 lb down and 46 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 17 lb down at 4-2-15, 17 lb down at 4-2-15, and 34 lb down at 7-0-14, and 34 lb down at 7-0-14 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=-60, 4-6=-60, 2-11=-20, 10-11=-20, 4-7=-20
Concentrated Loads (lb)
Vert: 12=124(F=62, B=62) 14=-34(F=-17, B=-17) 16=-8(F=-4, B=-4) 17=-68(F=-34, B=-34)



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

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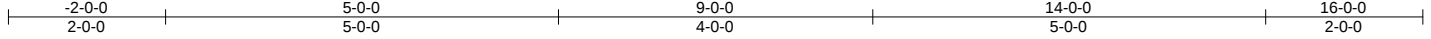
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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550379
6250760	L01	Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:06 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-o_HoGAFV_cz_xQ39hy4zK1?FZ7KdFLmjaOuB5yuX03



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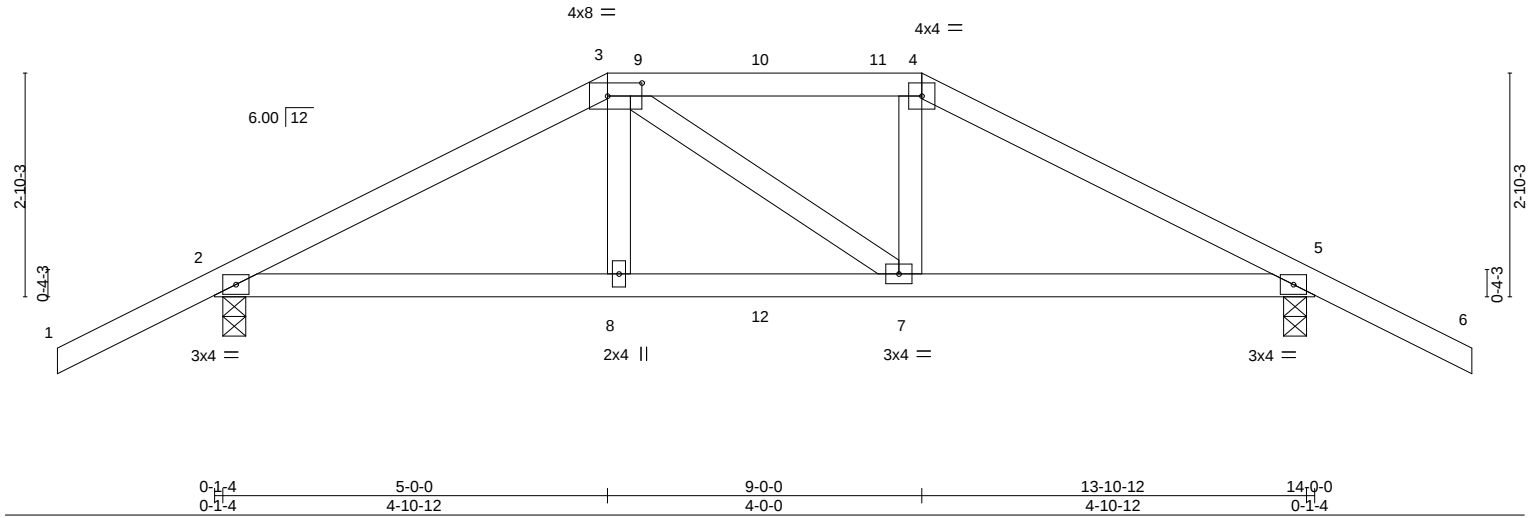


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.06	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.04	7-8	>999	240	Weight: 63 lb	FT = 20%

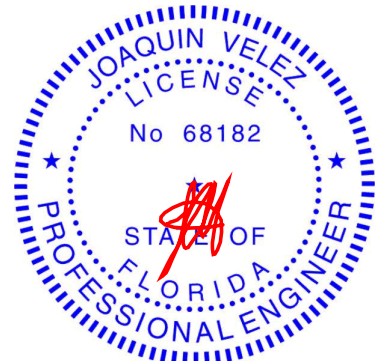
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-7 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.		(size) 2=0-3-8, 5=0-3-8
		Max Horz 2=-58(LC 25)
		Max Uplift 2=-311(LC 8), 5=-311(LC 8)
		Max Grav 2=913(LC 1), 5=913(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1321/418, 3-4=-1116/393, 4-5=-1321/418
BOT CHORD	2-8=-328/1104, 7-8=-333/1116, 5-7=-323/1105
WEBS	3-8=-87/333, 4-7=-89/334

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; 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
 - 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=311, 5=311.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 121 lb up at 5-0-0, and 76 lb down and 53 lb up at 7-0-0, and 150 lb down and 121 lb up at 9-0-0 on top chord, and 138 lb down and 89 lb up at 5-0-0, and 56 lb down and 24 lb up at 7-0-0, and 138 lb down and 89 lb up at 8-11-4 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).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20	
Concentrated Loads (lb)	
Vert: 3=-95(B) 4=-95(B) 8=-100(B) 7=-100(B) 10=-55(B) 12=-28(B)	



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

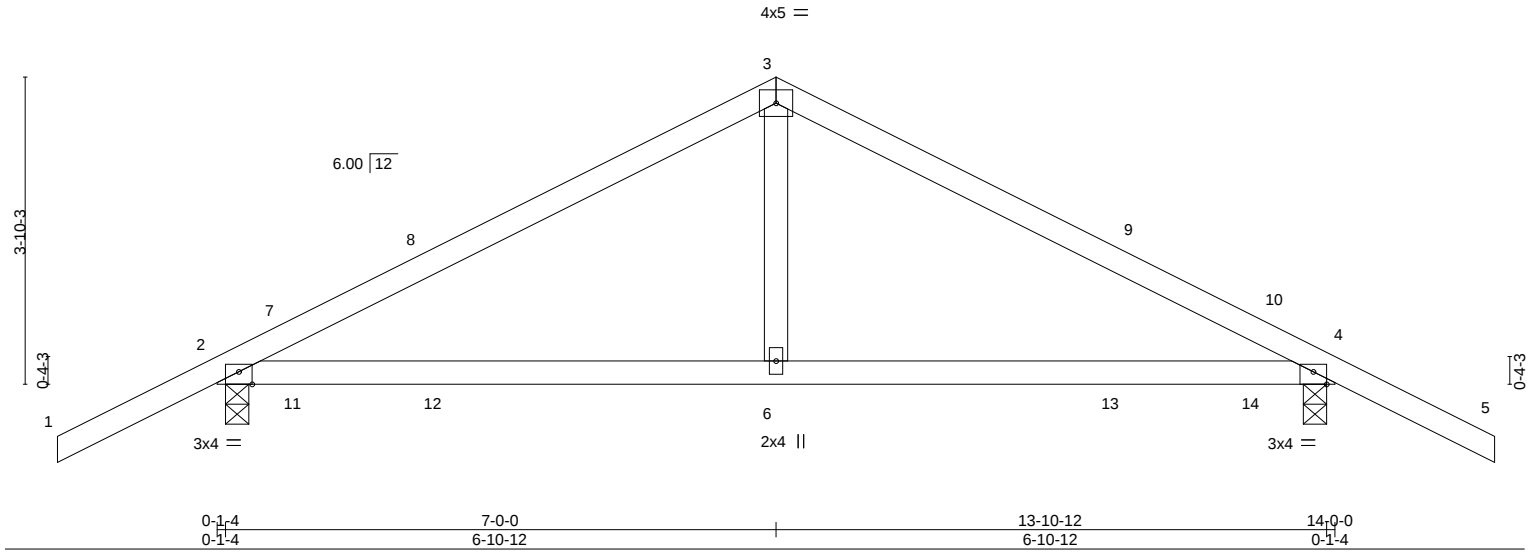
Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550380
6250760	L02	Common	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:06 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUjE7yRHSA-o_HoGAfV_cz_xQ39hy4zK1?C97IVfxMmjaOuB5yuX03



Scale = 1:28.9



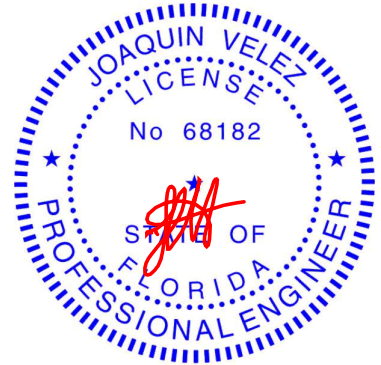
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.05 2-6 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.12 2-6 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01 4 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.07 4-6 >999 240				
								Weight: 56 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-7-6 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-74(LC 10)
Max Uplift 2=-202(LC 12), 4=-202(LC 12)
Max Grav 2=677(LC 1), 4=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-737/313, 3-4=-737/313
BOT CHORD 2-6=-161/570, 4-6=-161/570
WEBS 3-6=-88/328

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 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
 - 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=202, 4=202.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

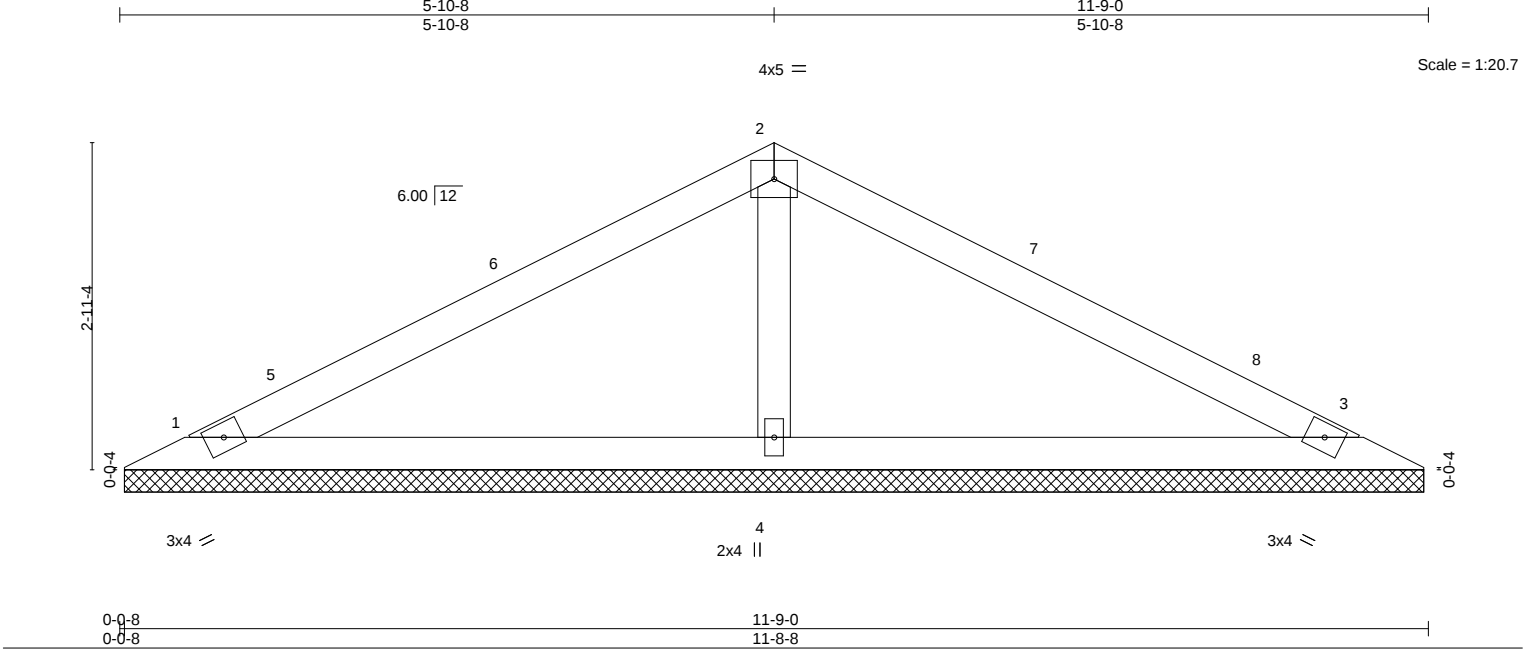
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550381
6250760	LV1	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:07 2024 Page 1
ID:ILvgrdrRfc_J_b2qMEUJE7yRHSAGArATWg7lv5rYaeLFgbCsFYRbXibOP3vyE8RkXyuX02



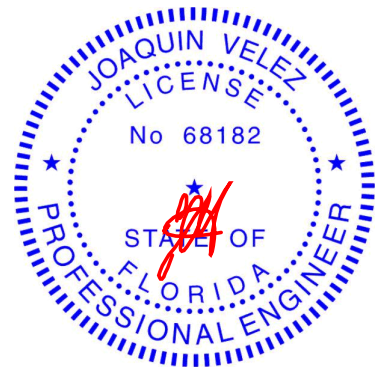
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 38 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.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=11-8-0, 3=11-8-0, 4=11-8-0
Max Horz 1=-43(LC 10)
Max Uplift 1=-18(LC 12), 3=-18(LC 12)
Max Grav 1=193(LC 23), 3=193(LC 24), 4=459(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-305/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-10-8, Zone2 5-10-8 to 10-1-7, Zone1 10-1-7 to 11-1-7 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
 - 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

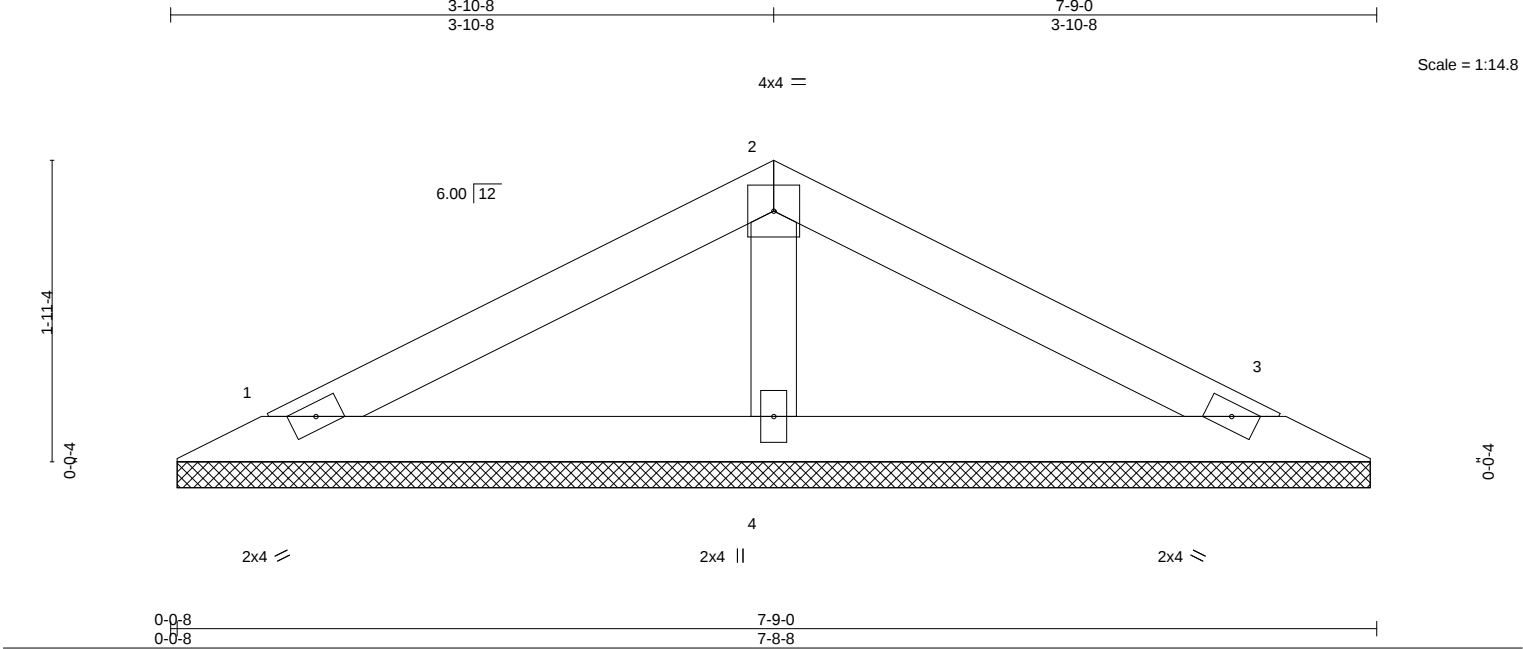
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550382
6250760	LV2	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:07 2024 Page 1
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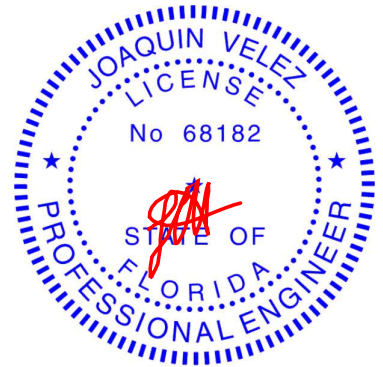
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	Weight: 24 lb	FT = 20%
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						

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.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=7-8-0, 3=7-8-0, 4=7-8-0
Max Horz 1=27(LC 11)
Max Uplift 1=-17(LC 12), 3=-17(LC 12)
Max Grav 1=131(LC 1), 3=131(LC 1), 4=257(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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
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Date:

July 26,2024

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Job	Truss	Truss Type	Qty	Ply	2117-CR-14x10 Lamai-Frame	T34550383
6250760	LV3	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Thu Jul 25 12:23:08 2024 Page 1
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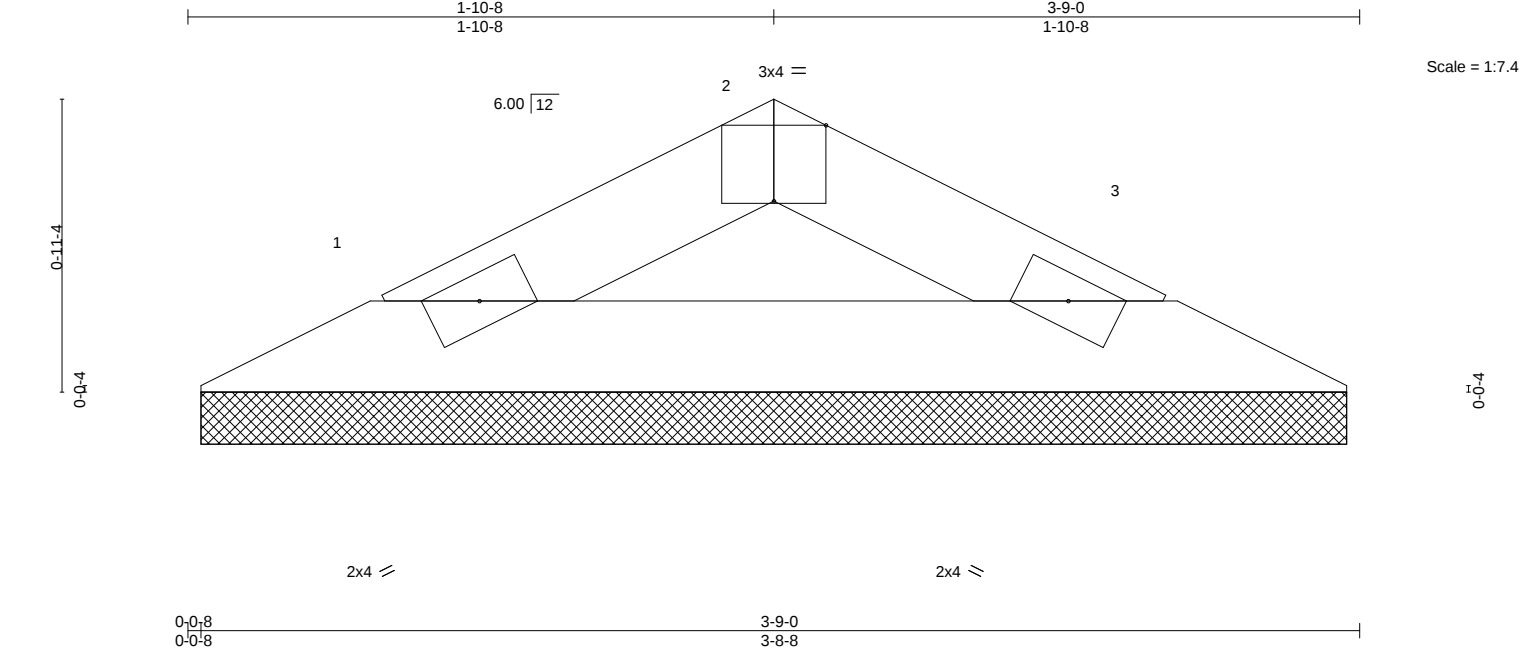


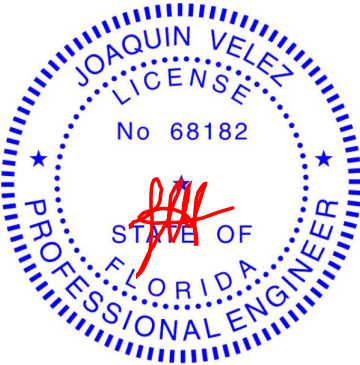
Plate Offsets (X,Y)-- [2:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a - n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a - n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P					
								Weight: 10 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-0, 3=3-8-0
Max Horz 1=-10(LC 10)
Max Uplift 1=-4(LC 12), 3=-4(LC 12)
Max Grav 1=100(LC 1), 3=100(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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.

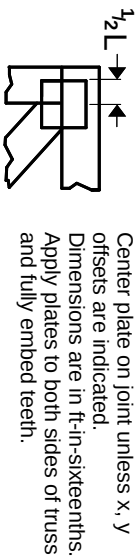


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Date:

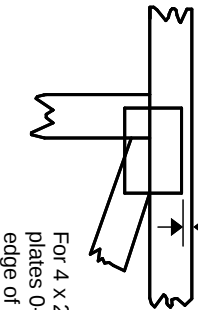
July 26,2024

Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

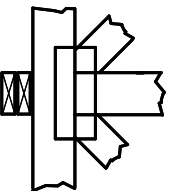
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

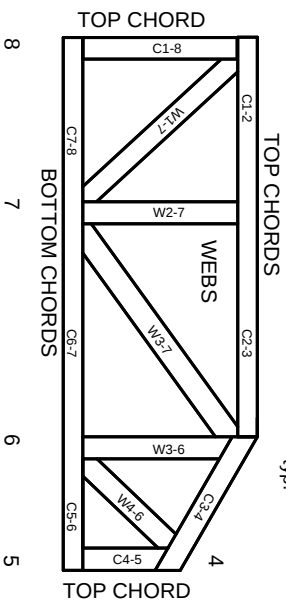
Industry Standards:

ANSI/TPI-1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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