



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

RE: 6241956 - 1755-C- Frame

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

314.434.1200

Site Information:

Customer Info: Adams Homes-Gainesville

Project Name: The Preserve at Laurel Lake, 143 Model: 1755-C- Frame

Lot/Block: 143

Subdivision: The Preserve at Laurel Lake

Address: SW Silver Palm Dr , .

City: Lake City

State: fl

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

Name:

License #:

Address:

City:

State:

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

Design Code: 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 38 individual, Truss Design Drawings and 0 Additional Drawings.

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

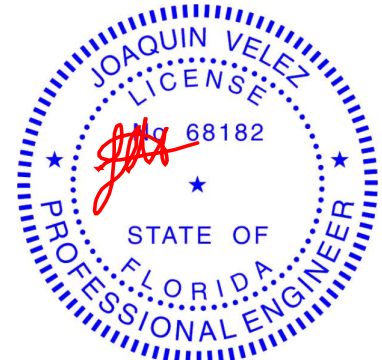
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34535082	A01	7/25/24	23	T34535104	C1A	7/25/24
2	T34535083	A02	7/25/24	24	T34535105	C3	7/25/24
3	T34535084	A03	7/25/24	25	T34535106	C5	7/25/24
4	T34535085	A04	7/25/24	26	T34535107	E01	7/25/24
5	T34535086	A05	7/25/24	27	T34535108	E02	7/25/24
6	T34535087	A06	7/25/24	28	T34535109	E2	7/25/24
7	T34535088	A07	7/25/24	29	T34535110	E2A	7/25/24
8	T34535089	A08	7/25/24	30	T34535111	E03	7/25/24
9	T34535090	A09	7/25/24	31	T34535112	E7	7/25/24
10	T34535091	A10	7/25/24	32	T34535113	G01	7/25/24
11	T34535092	A11	7/25/24	33	T34535114	G02	7/25/24
12	T34535093	A12	7/25/24	34	T34535115	G03	7/25/24
13	T34535094	A13	7/25/24	35	T34535116	H2	7/25/24
14	T34535095	A14	7/25/24	36	T34535117	H3	7/25/24
15	T34535096	A15	7/25/24	37	T34535118	H7	7/25/24
16	T34535097	A16	7/25/24	38	T34535119	V18	7/25/24
17	T34535098	A17	7/25/24				
18	T34535099	A18	7/25/24				
19	T34535100	A19	7/25/24				
20	T34535101	A20	7/25/24				
21	T34535102	A21	7/25/24				
22	T34535103	C1	7/25/24				

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, 2025.

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



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

July 25,2024

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535082
6241956	A01	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. Wed Jul 24 12:34:42 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-jnaGUfK6MlgFqC?XaUlpjYO1AKe_3g3u6jdp7dyurxB
-2-0-0 7-0-0 11-6-14 16-0-0 20-5-2 25-0-0 32-0-0 34-0-0
2-0-0 7-0-0 4-6-14 4-5-2 4-5-2 4-6-14 7-0-0 2-0-0
Scale = 1:58.6

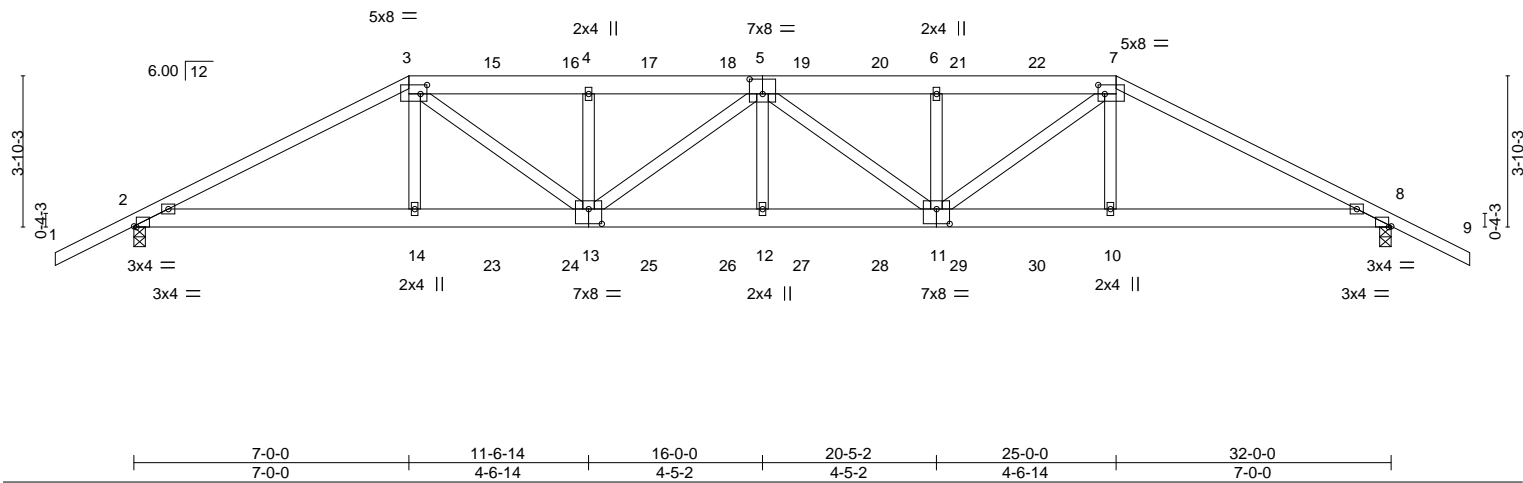


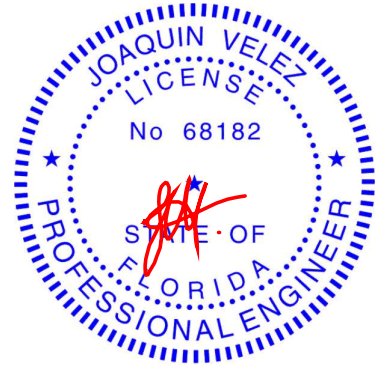
Plate Offsets (X,Y)-- [2:0-0-12,Edge], [3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [7:0-2-0,0-2-12], [8:0-0-12,Edge], [11:0-4-0,0-4-8], [13:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	in (loc)	I/defl	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(LL)	-0.14 12 >999		244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Vert(CT)	-0.29 12 >999		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Horz(CT)	0.08 8 n/a		
						Wind(LL)	0.09 12 >999	Weight: 398 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-9 oc purlins.
BOT CHORD	2x6 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, 8=0-3-8
Max Horz 2=-73(LC 25)
Max Uplift 2=-150(LC 8), 8=-166(LC 8)
Max Grav 2=2487(LC 1), 8=2533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4761/162, 3-4=-5742/294, 4-5=-5740/293, 5-6=-5785/310, 6-7=-5788/310,
7-8=-4862/198
BOT CHORD 2-14=-51/4172, 13-14=-43/4190, 12-13=-221/6250, 11-12=-221/6250, 10-11=-75/4280,
8-10=-83/4262
WEBS 3-14=0/629, 3-13=-164/2014, 4-13=-607/184, 5-13=-669/59, 5-12=0/392, 5-11=-602/38,
6-11=-607/185, 7-11=-144/1949, 7-10=0/628

- 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=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 166 lb uplift at joint 8.



Joaquin Velez PE No.68182
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Date:

July 25,2024

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)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535082
6241956	A01	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. Wed Jul 24 12:34:42 2024 Page 2
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-jnaGUfK6MlgFqC?XaUlpjYO1AKe_3g3u6jdp7dyurxB

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 16-11-4, 123 lb down and 83 lb up at 18-11-4, 123 lb down and 83 lb up at 20-11-4, and 123 lb down and 83 lb up at 22-11-4, and 251 lb down and 170 lb up at 25-0-0 on top chord, and 311 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 16-11-4, 96 lb down at 18-11-4, 96 lb down at 20-11-4, and 96 lb down at 22-11-4, and 311 lb down at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 3=-123(F) 7=-204(F) 14=-264(F) 10=-264(F) 15=-123(F) 16=-123(F) 17=-123(F) 18=-123(F) 19=-123(F) 20=-123(F) 21=-123(F) 22=-123(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-48(F) 30=-48(F)

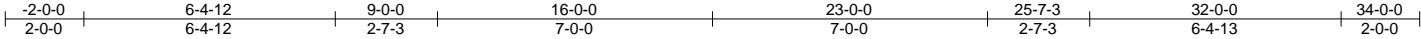
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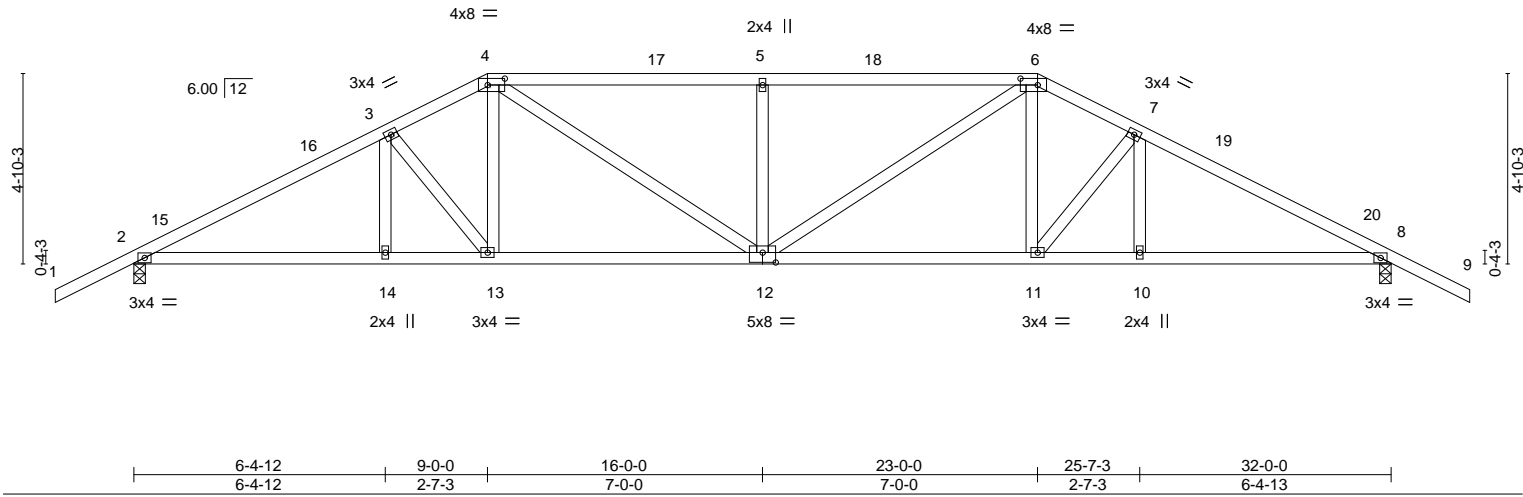
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535083
6241956	A02	HIP	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:43 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHyrn-B_8fh?Lk73o6SMZj7CG2Glx9Xjz8o871LNNMf4yurxA



Scale = 1:58.6



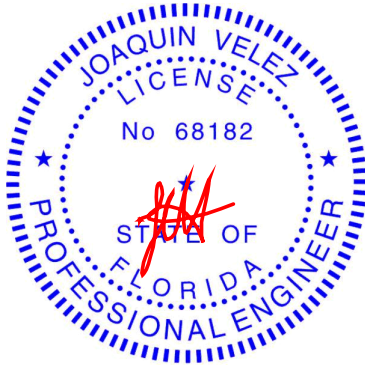
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.14 12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30 12-13 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10 8 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-S		Wind(LL)	0.08 12 >999 240				
								Weight: 168 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-10-10 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, 8=0-3-8
Max Horz 2=-91(LC 10)
Max Uplift 2=-116(LC 12), 8=-116(LC 12)
Max Grav 2=1397(LC 1), 8=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2314/176, 3-4=-2026/194, 4-5=-2263/216, 5-6=-2263/216, 6-7=-2026/194, 7-8=-2314/176
BOT CHORD 2-14=-71/1978, 13-14=-71/1978, 12-13=-31/1781, 11-12=-39/1781, 10-11=-85/1978, 8-10=-85/1978
WEBS 3-13=-324/71, 4-13=-1/370, 4-12=-51/659, 5-12=-480/141, 6-12=-51/659, 6-11=-1/370, 7-11=-324/71

- 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 23-0-0, Zone2 23-0-0 to 27-2-15, Zone1 27-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 116 lb uplift at joint 8.



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Date:

July 25,2024

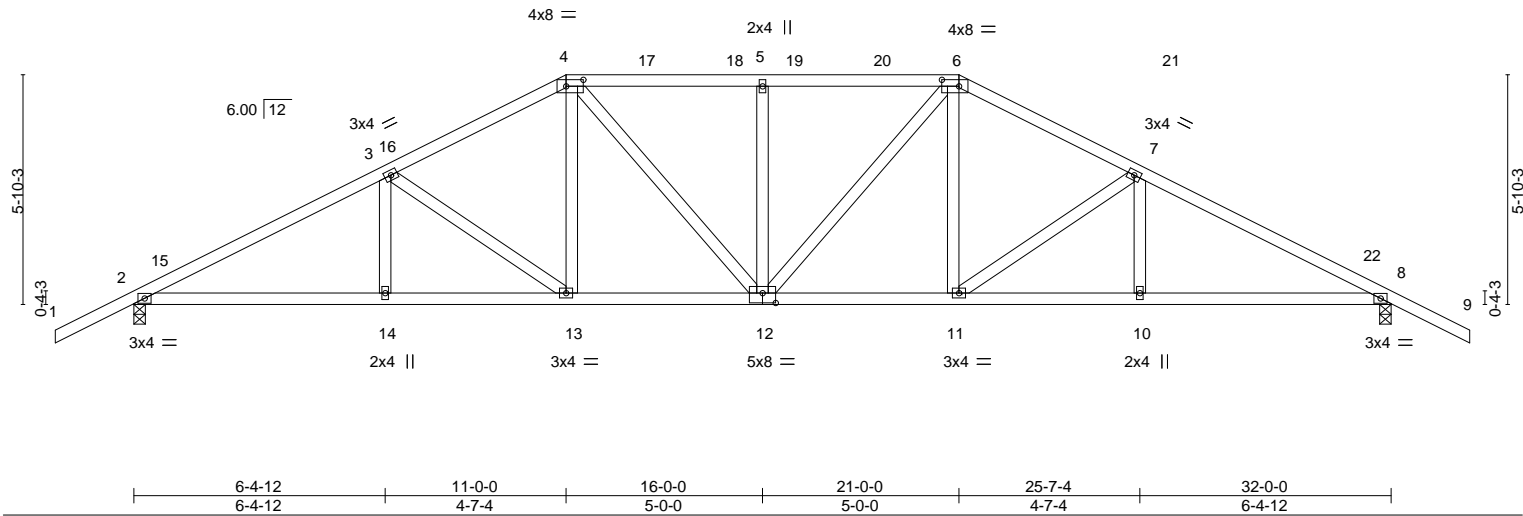
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535084
6241956	A03	HIP	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:43 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHym-B_8fh?Lk73o6SMZj7CG2GlxC8jzQo6s1LNNMf4yurxA
-2-0-0 6-4-12 11-0-0 16-0-0 21-0-0 25-7-4 32-0-0 34-0-0
2-0-0 6-4-12 4-7-4 5-0-0 5-0-0 4-7-4 6-4-12 2-0-0
Scale = 1:58.6



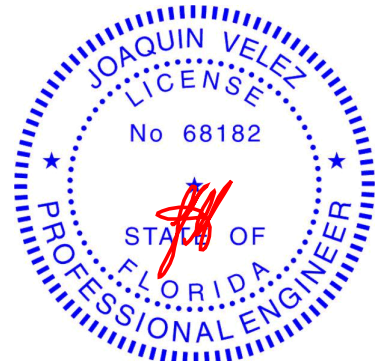
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.11 12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23 12-13 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.10 8 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.07 12 >999 240				
								Weight: 175 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-11 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, 8=0-3-8
Max Horz 2=107(LC 11)
Max Uplift 2=116(LC 12), 8=116(LC 12)
Max Grav 2=1397(LC 1), 8=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2324/178, 3-4=-1879/190, 4-5=-1819/205, 5-6=-1819/205, 6-7=-1879/190, 7-8=-2324/178
BOT CHORD 2-14=-74/1989, 13-14=-74/1989, 12-13=-16/1624, 11-12=-24/1624, 10-11=-88/1989, 8-10=-88/1989
WEBS 3-13=-456/77, 4-13=0/375, 4-12=-32/392, 5-12=-338/101, 6-12=-32/392, 6-11=0/375, 7-11=-456/77

- 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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
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 - * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 116 lb uplift at joint 2 and 116 lb uplift at joint 8.



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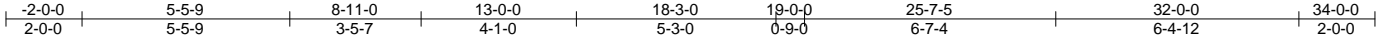
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535085
6241956	A04	HIP	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:44 2024 Page 1

ID:nV5ZFUJaGJLKO1jrAiSDcyHym-fAi1vLLMuMwz3V8vhvnHozUGf7IeXWaBa16vCWyurx9



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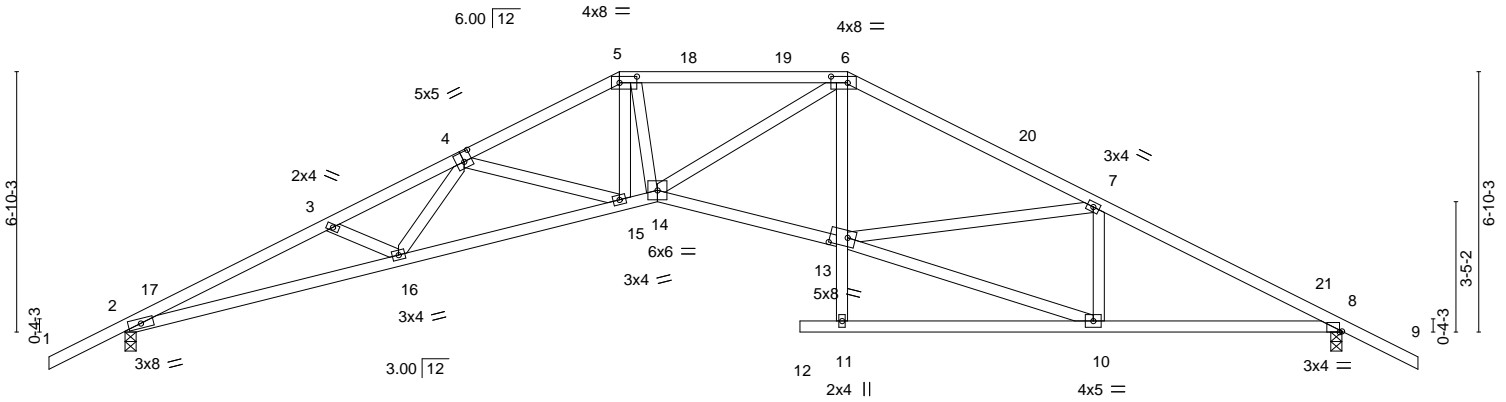


Plate Offsets (X,Y)--	7-2-5	13-0-0	14-0-0	18-3-0	19-0-0	25-7-5	32-0-0
	7-2-5	5-9-11	1-0-0	4-3-0	0-9-0	6-7-4	6-4-12
	[4:0-2-8,0-3-0], [5:0-5-8,0-2-0], [6:0-5-4,0-2-0], [8:0-0-12,Edge], [13:0-5-8,0-2-12]						

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.29 15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.60 15-16	>635	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.36 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.16 15-16	>999	240	Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

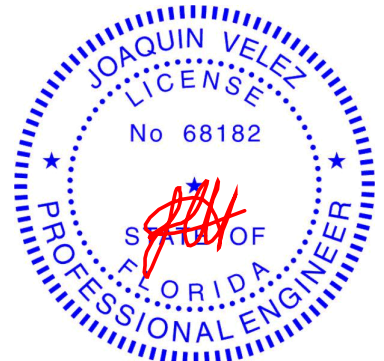
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-124(LC 10)
Max Uplift 2=-110(LC 12), 8=-108(LC 12)
Max Grav 2=1407(LC 1), 8=1410(LC 1)

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

TOP CHORD 2-3=-4284/245, 3-4=-4054/201, 4-5=-3292/169, 5-6=-3149/162, 6-7=-2611/173,
7-8=-2380/160
BOT CHORD 2-16=-152/3845, 15-16=-80/3552, 14-15=0/2989, 13-14=-0/2342, 8-10=-75/2043
WEBS 4-16=0/379, 4-15=-566/109, 5-15=-15/416, 5-14=0/780, 6-14=0/1042, 10-13=-78/2132,
6-13=0/308, 7-13=0/343, 7-10=-516/116

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 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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 110 lb uplift at joint 2 and 108 lb uplift at joint 8.



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

July 25,2024

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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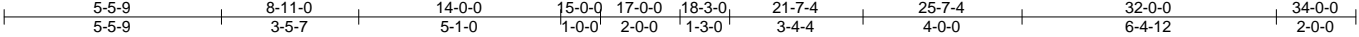
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535086
6241956	A05	HIP	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:45 2024 Page 1

ID:nV5ZFUJaGJLKOI1jrAiSDcyHym-7MGP6hM_fg2qhif6FdIWLA0QEXfiGzwKphsTkyyrux8



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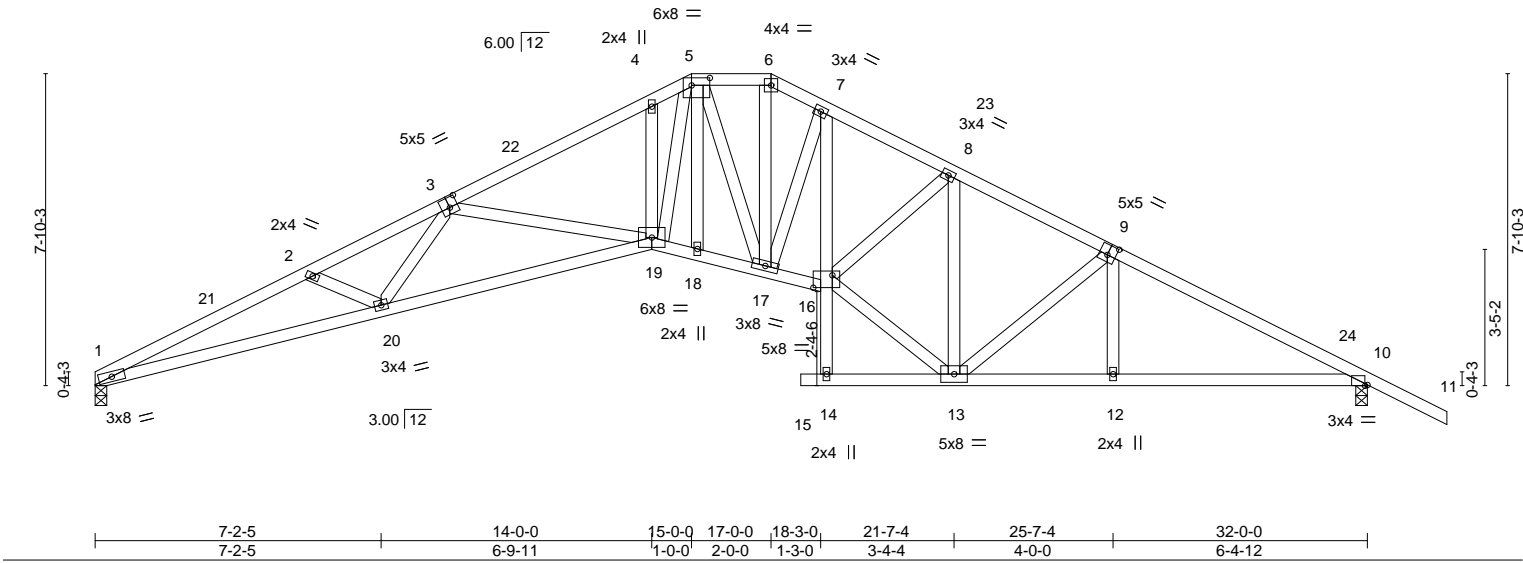


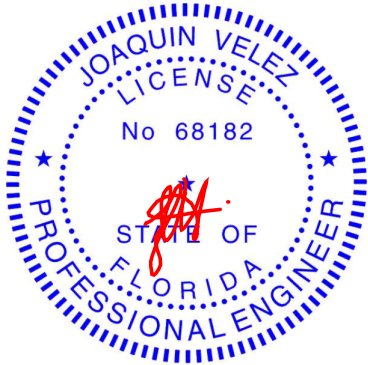
Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [5:0-5-8,0-2-4], [9:0-2-8,0-3-0], [10:0-0-12,Edge], [16:0-5-12,0-3-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.30 19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.64 19-20	>593	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.37 10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16 19-20	>999	240	Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1-19: 2x4 SP M 31 or 2x4 SP SS	10-0-0 oc bracing: 14-16
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=-137(LC 10)
Max Uplift 1=-49(LC 12), 10=-114(LC 12)
Max Grav 1=1270(LC 1), 10=1409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4358/283, 2-3=-4136/229, 3-4=-3170/175, 4-5=-3160/231, 5-6=-2094/177,
6-7=-2317/191, 7-8=-2604/188, 8-9=-1951/184, 9-10=-2345/158
BOT CHORD 1-20=-197/3941, 19-20=-104/3596, 18-19=0/2374, 17-18=0/2373, 16-17=0/2305,
7-16=-22/583, 12-13=-71/2003, 10-12=-69/2006
WEBS 3-20=0/429, 3-19=-731/122, 4-19=-286/144, 5-17=-611/2, 6-17=-53/894, 7-17=-622/87,
13-16=-37/2107, 8-16=0/783, 8-13=-995/26, 9-13=-421/56, 5-19=-108/1997

- 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 0-1-12 to 3-1-12, Zone1 3-1-12 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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 49 lb uplift at joint 1 and 114 lb uplift at joint 10.



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

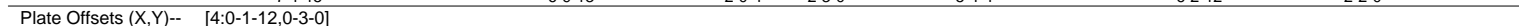
July 25,2024

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

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:45 2024 Page 1
ID:nV5ZFUJaGJLKO1rjAiSDcyHym-7MGP6hM_fg2qhjf6fDIWLA0UKXcxGxTKphsTkyuyx8
2-0-0 5-5-3 8-10-11 13-11-12 16-0-0 18-3-0 23-7-4 29-10-0 32-0-0
2-0-0 5-5-3 3-5-8 5-1-1 2-0-4 2-3-0 5-4-4 6-2-12 2-2-0



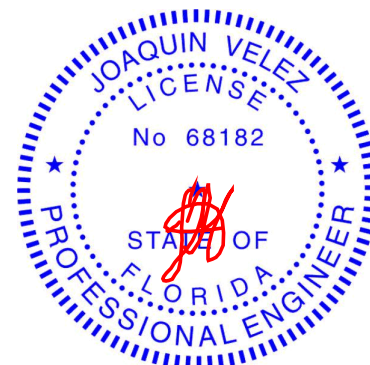
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*		
	2-17: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	2x4 SP No.2		10-0-0 oc bracing: 13-15

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

TOP CHORD	2-3=-4293/334, 3-4=-4067/295, 4-5=-3165/268, 5-6=-2251/248, 6-7=-2250/245, 7-8=-2560/242, 8-9=-2201/180
BOT CHORD	2-18=-319/3856, 17-18=-266/3561, 16-17=-142/2853, 15-16=-99/2282, 7-15=0/327, 11-12=-228/2117
WEBS	4-18=0/422, 4-17=-704/113, 5-17=-65/1762, 5-16=-1775/184, 6-16=-197/1868, 7-16=-478/110, 12-15=-126/2056, 8-15=0/346, 8-12=-666/129, 9-11=-2350/298

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 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 49 lb uplift at joint 11 and 114 lb uplift at joint 2.



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

July 25, 2024



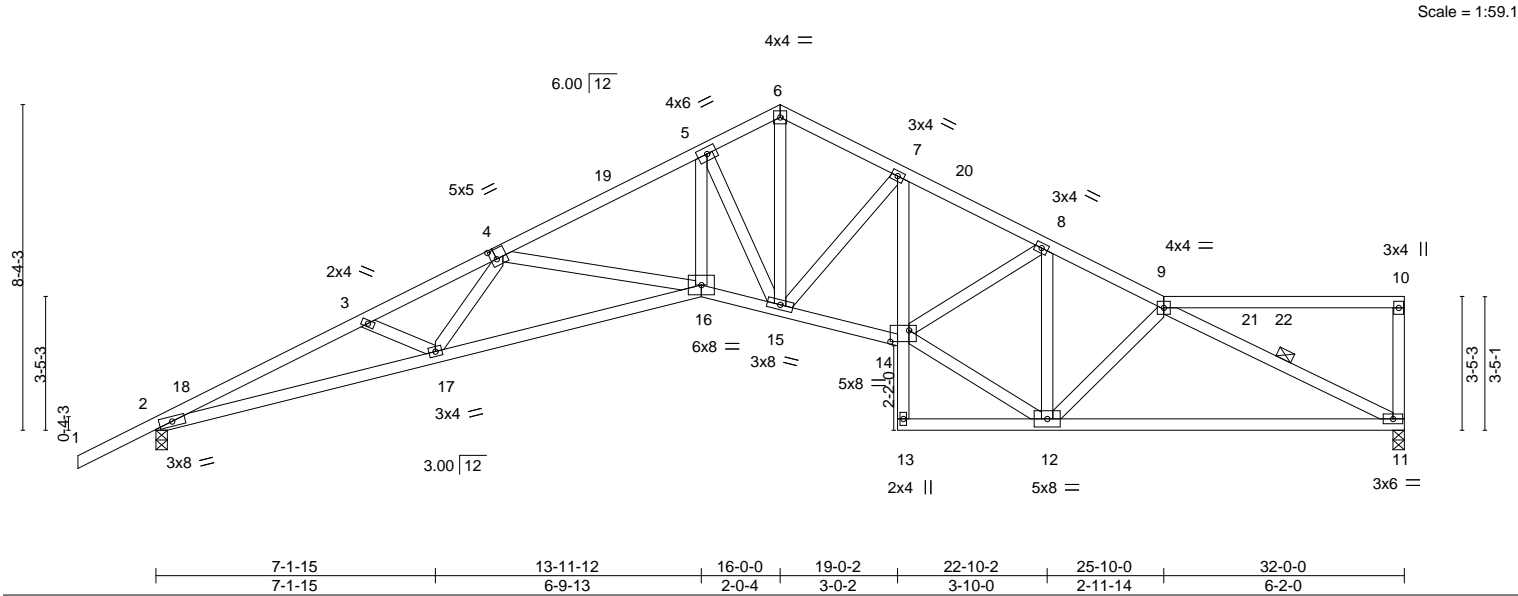
WARNING – verify design parameters and READ NOTES on this and INCLUDED MITER REFERENCE PLATE MP1473 (rev. 1/2/2025) BEFORE USE.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535089
6241956	A08	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. Wed Jul 24 12:34:46 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-bZqnK1NdQ_AhJpllpKqluOZg7xwh?OnT1Lb0GOyurx7



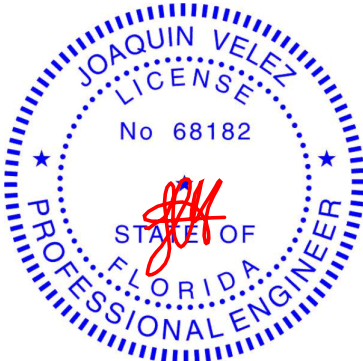
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.31	16-17	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.66	16-17	>576		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.38	11	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.19	16-17	>999	Weight: 192 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 9-11

REACTIONS.	
(size)	11=0-3-8, 2=0-3-8
Max Horz	2=119(LC 11)
Max Uplift	11=-57(LC 12), 2=-114(LC 12)
Max Grav	11=1264(LC 1), 2=1401(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4271/387, 3-4=-4044/349, 4-5=-3141/326, 5-6=-2232/283, 6-7=-2241/276, 7-8=-2652/284, 8-9=-2052/183
BOT CHORD	2-17=-418/3836, 16-17=-369/3539, 15-16=-246/2831, 14-15=-196/2381, 7-14=0/392, 11-12=-200/1966
WEBS	4-17=0/424, 4-16=-704/111, 5-16=-116/1752, 5-15=-1764/227, 6-15=-215/1825, 7-15=-561/107, 12-14=-154/2100, 8-14=-60/624, 8-12=-786/125, 9-12=-252/90, 9-11=-2154/225

- 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 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 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.
 - 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 57 lb uplift at joint 11 and 114 lb uplift at joint 2.



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

July 25,2024

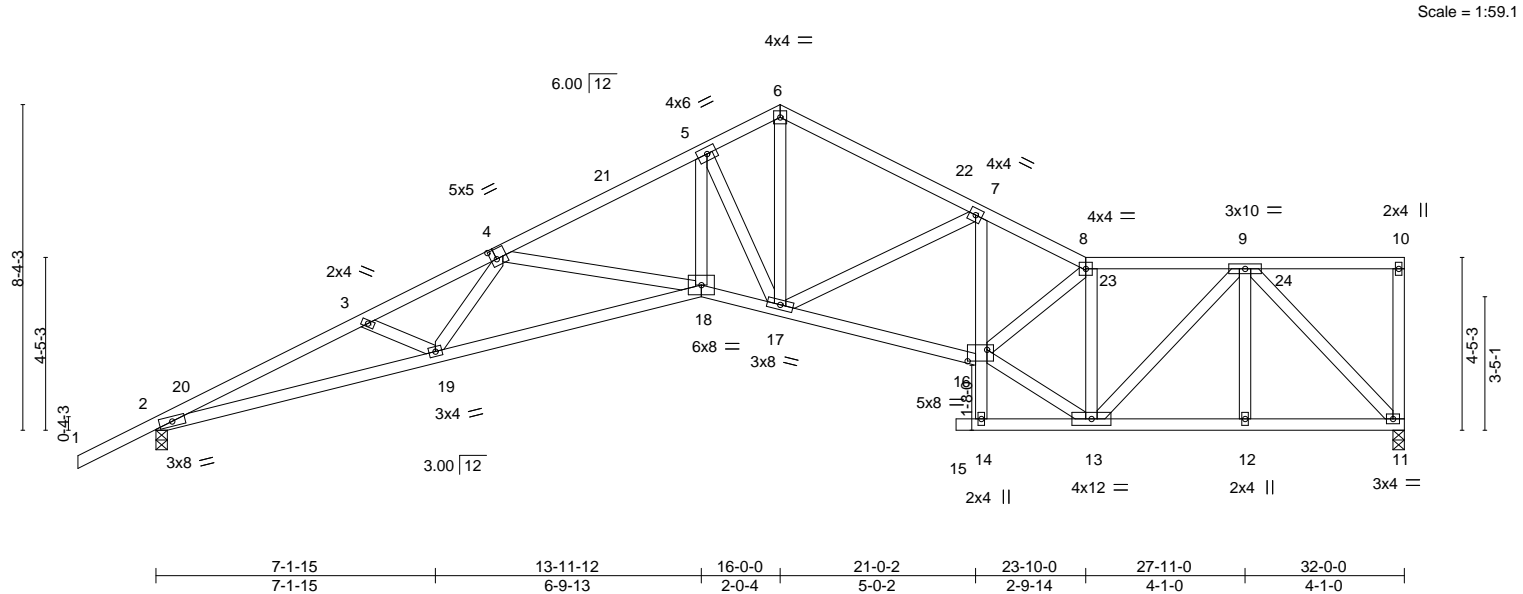
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535090
6241956	A09	Roof Special	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:47 2024 Page 1
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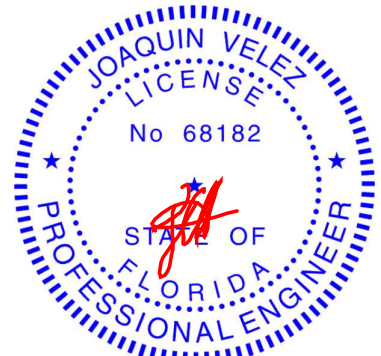
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.31 18-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.66 18-19	>575	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.38 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.19 18-19	>999	240	Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
2-18: 2x4 SP M 31 or 2x4 SP SS	10-0-0 oc bracing: 14-16
WEBS 2x4 SP No.2	

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=134(LC 12)
Max Uplift 11=-54(LC 12), 2=-109(LC 12)
Max Grav 11=1272(LC 1), 2=1406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4289/389, 3-4=-4062/351, 4-5=-3159/329, 5-6=-2250/275, 6-7=-2298/262, 7-8=-2815/260, 8-9=-1826/154
BOT CHORD 2-19=-446/3852, 18-19=-397/3557, 17-18=-276/2844, 16-17=-233/2594, 7-16=0/302, 12-13=-100/1093, 11-12=-100/1093
WEBS 4-19=0/424, 4-18=-704/112, 5-18=-139/1751, 5-17=-1746/240, 6-17=-181/1779, 7-17=-627/95, 13-16=-178/2196, 8-16=-75/797, 8-13=-1918/198, 9-13=-78/1063, 9-11=-1572/142

- 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 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 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.
 - 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 54 lb uplift at joint 11 and 109 lb uplift at joint 2.



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

July 25,2024

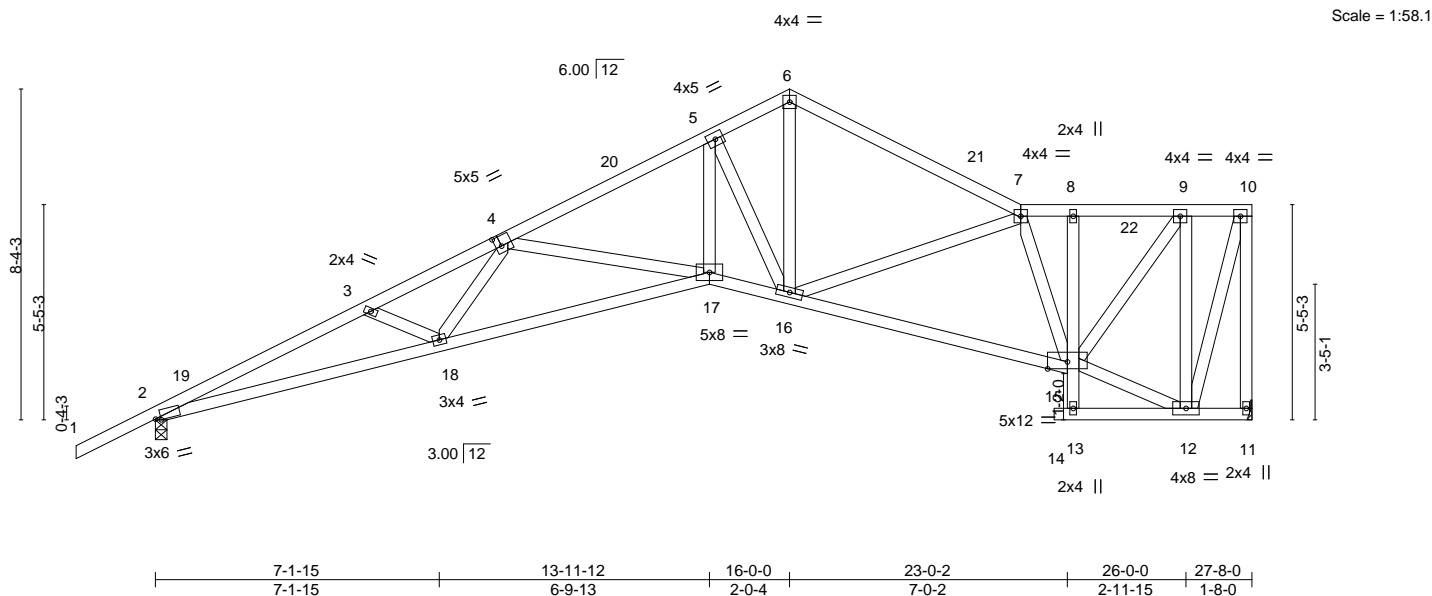
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	1755-C- Frame	T34535091
6241956	A10	Roof Special	1	1	Job Reference (optional)	



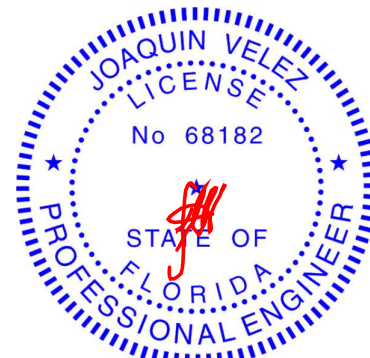
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) -0.24 17-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.52 17-18 >630 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.31 11 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.15 17-18 >999 240	Weight: 179 lb	FT = 20%

LUMBER-

REACTIONS.

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

NOTES-



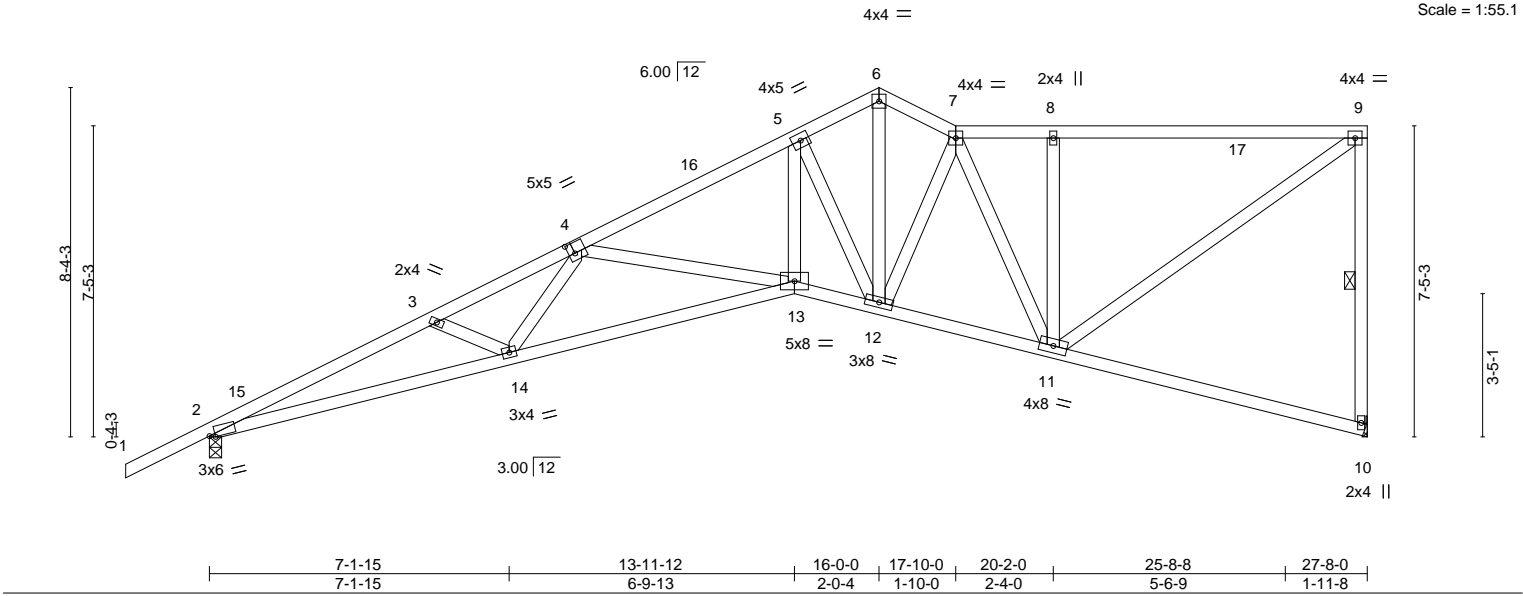
July 25, 2024



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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535093
6241956	A12	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. Wed Jul 24 12:34:49 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-08Vvy3PVjvYFAH1tUTNSV0BAG8yYcm_wjJqgtjyurx4
16-0-0 17-10-0 20-2-0 27-8-0
2-0-0 5-5-3 8-10-11 13-11-12 2-0-4 1-10-0 2-4-0 7-6-0



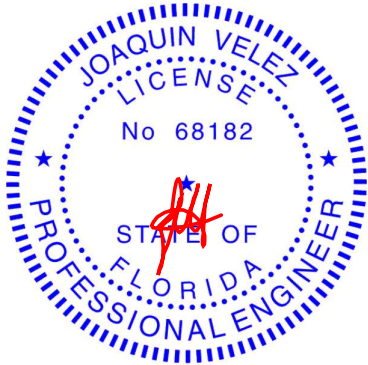
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.24 13-14 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51 13-14 >638 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.30 10 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16 13-14 >999 240				
								Weight: 169 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-1 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-3-13 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 9-10

REACTIONS.	
(size)	10=Mechanical, 2=0-3-8
Max Horz	2=205(LC 12)
Max Uplift	10=-67(LC 12), 2=-89(LC 12)
Max Grav	10=1090(LC 1), 2=1229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3586/358, 3-4=-3353/319, 4-5=-2405/295, 5-6=-1629/238, 6-7=-1590/230, 7-8=-1181/146, 8-9=-1181/147, 9-10=-1026/190
BOT CHORD	2-14=-493/3213, 13-14=-443/2880, 12-13=-318/2159, 11-12=-205/1497
WEBS	4-14=0/445, 4-13=-713/112, 5-13=-147/1450, 5-12=-1503/256, 6-12=-174/1277, 8-11=-453/145, 7-11=-655/105, 9-11=-177/1429

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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=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 16-0-0, Zone3 16-0-0 to 17-10-0, Zone1 17-10-0 to 27-6-4 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) 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 67 lb uplift at joint 10 and 89 lb uplift at joint 2.



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

July 25,2024

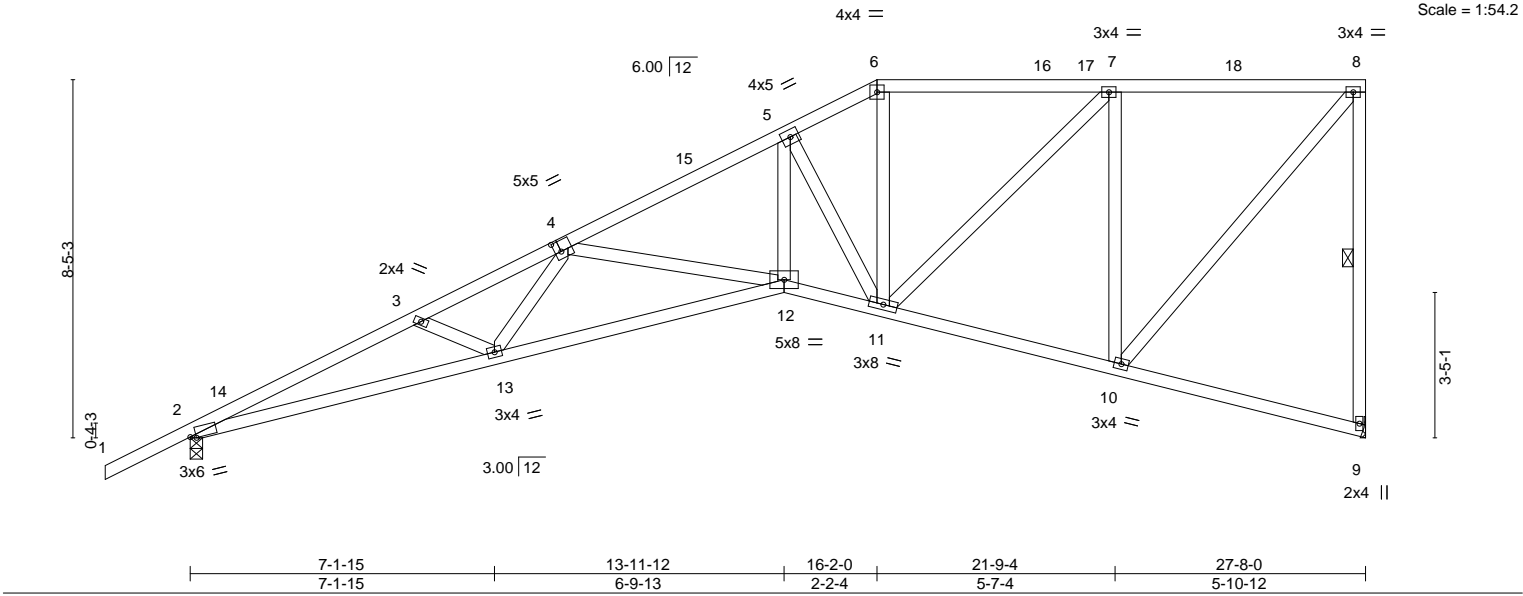
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535094
6241956	A13	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. Wed Jul 24 12:34:49 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-08Vwy3PVjvYFAH1tUTNSV0BCK8yYCjbjwJqgtjyurx4
-2-0-0 5-5-3 8-10-11 13-11-12 16-2-0 21-9-4 27-8-0
2-0-0 5-5-3 3-5-8 5-1-1 2-2-4 5-7-4 5-10-12



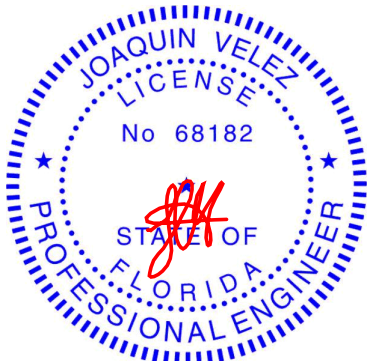
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.23 12-13 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51 12-13 >650 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.29 9 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16 12-13 >999 240				
								Weight: 168 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-1 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-1-12 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 8-9

REACTIONS.	
(size)	9=Mechanical, 2=0-3-8
Max Horz	2=229(LC 12)
Max Uplift	9=74(LC 12), 2=82(LC 12)
Max Grav	9=1090(LC 1), 2=1229(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3586/353, 3-4=-3353/314, 4-5=-2405/291, 5-6=-1557/213, 6-7=-1373/200, 7-8=-783/102, 8-9=-1041/187
BOT CHORD	2-13=-514/3213, 12-13=-464/2876, 11-12=-344/2157, 10-11=-114/819
WEBS	4-13=0/446, 4-12=-704/110, 5-12=-167/1441, 5-11=-1499/272, 6-11=-44/490, 7-11=-136/821, 7-10=-968/221, 8-10=-154/1186

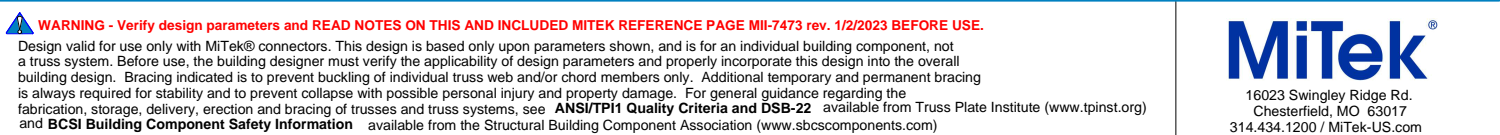
- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-2-0, Zone2 16-2-0 to 20-4-15, Zone1 20-4-15 to 27-6-4 zone; cantilever 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) 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 74 lb uplift at joint 9 and 82 lb uplift at joint 2.



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

July 25,2024

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:50 2024 Page 1
 ID:nV5ZFUJaGJLK01jrA1SDcyHym-UK3I9PQ7UCH6nQc32Auh2EKXNYlmx6C3yzZEPAYurx3
 -2-0-0 5-5-3 8-10-11 13-11-12 18-2-0 21-8-8 27-4-0 27-8-0
 2-0-0 5-5-3 3-5-8 5-1-1 4-2-4 3-6-8 5-7-8 0-4-0



Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:51 2024 Page 1
ID:nV5ZFUJaGJLK01jrAiSDcyHym-yWdgNkRlFWpZPaBgBtPwaRGWtYieggSDBdJnycyurx2
-2-0-0 | 5-5-3 | 8-10-11 | 13-11-12 | 19-0-0 | 19-8-8 | 25-4-0 | 27-8-0 | 32-0-0
2-0-0 | 5-5-3 | 3-5-8 | 5-1-1 | 5-0-4 | 0-8-8 | 5-7-8 | 2-4-0 | 4-4-0



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*		
	2-15: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 8-9-6 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midbt 5-14. 7-13. 8-11. 9-10

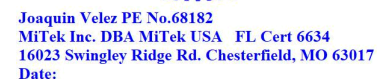
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=4848/386, 3-4=4656/344, 4-5=3576/333, 5-6=1727/161, 6-7=1508/176,
7-8=876/86, 8-9=588/56, 9-10=1386/181

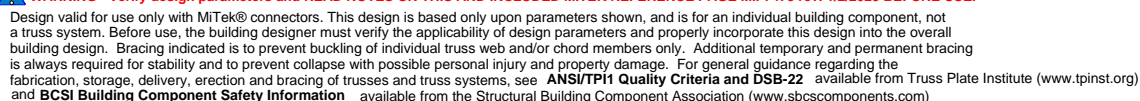
BOT CHORD 2-16=581/4441, 15-16=523/4078, 14-15=429/3290, 13-14=97/933, 11-13=59/623

WEBS 4-16=0/469, 4-15=773/90, 5-15=183/2118, 5-14=2307/319, 6-14=0/459,
7-14=143/998, 7-13=1018/200, 8-13=135/1146, 8-11=1259/189, 9-11=134/1411

- 1) 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=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 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 31-10-4 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, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 70 lb uplift at joint 10.



July 25, 2024



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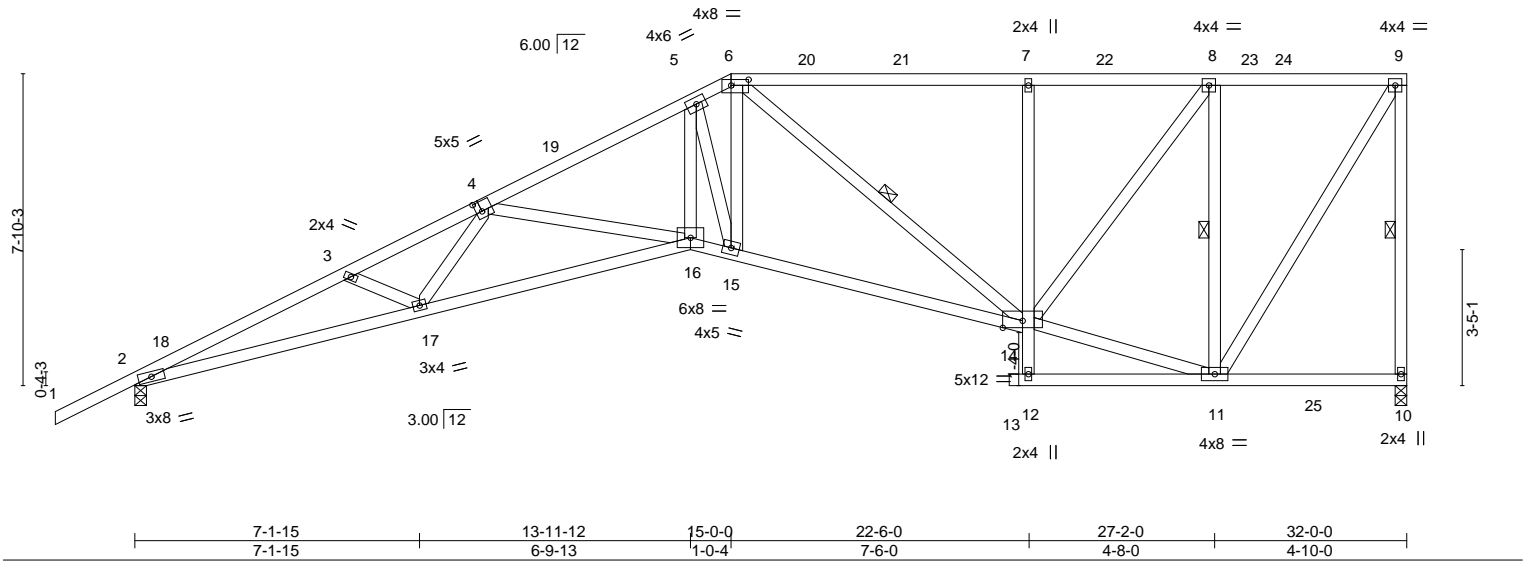
Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535098
6241956	A17	Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:52 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-QiB2a4SN0qxq1kiS9bw97fphAMzOP62MQH2KU2yurx1



Scale = 1:58.0



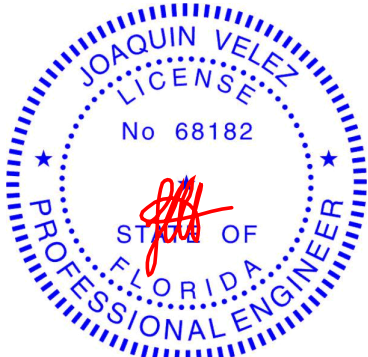
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.37 16-17 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.71 16-17 >535 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.38 10 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.20 16-17 >999 240				
								Weight: 211 lb		FT = 20%	

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

REACTIONS.		NOTES-	
(size)	2=0-3-8, 10=0-3-8	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.	
Max Horz	2=215(LC 12)	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,	
Max Uplift	2=-95(LC 12), 10=-70(LC 12)	Zone1 19-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown;	
Max Grav	2=1537(LC 17), 10=1421(LC 17)	Lumber DOL=1.60 plate grip DOL=1.60	

FORCES.		NOTES-	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		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.	
TOP CHORD	2-3=-4787/362, 3-4=-4600/324, 4-5=-3492/299, 5-6=-2838/260, 6-7=-1544/126, 7-8=-1524/123, 8-9=-762/57, 9-10=-1325/134	3) Provide adequate drainage to prevent water ponding.	
BOT CHORD	2-17=-497/4373, 16-17=-448/4011, 15-16=-331/3146, 14-15=-256/2731, 7-14=-406/120	4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
WEBS	4-17=0/467, 4-16=-810/114, 5-16=-198/1900, 5-15=-1817/268, 6-15=-150/1905, 6-14=-1399/148, 11-14=-42/767, 8-14=-112/1265, 8-11=-1236/169, 9-11=-106/1431	5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	

NOTES-		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.		6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.	
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,		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 70 lb uplift at joint 10.	
Zone1 19-2-15 to 31-10-4 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, with BCDL = 10.0psf.			



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535099
6241956	A18	Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024
MiTek Industries, Inc.
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ID:nV5ZFUJaGJLKOl1jrAiSDcyHym-QiB2a4SN0qxq1klS9bw97fpi8M1qP0TMQH2KU2yurx1

-2-0-0
2-0-0

4-5-1
4-5-1

8-10-12
4-5-12

13-0-0
4-1-4

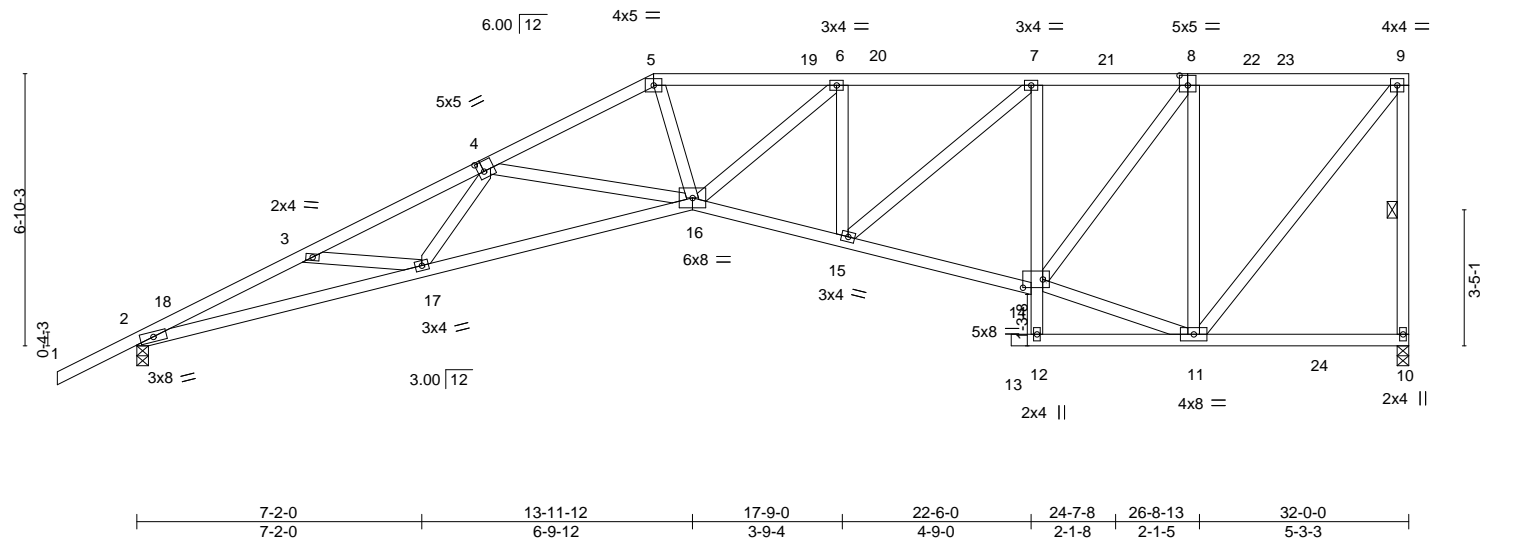
17-9-0
4-9-0

22-6-0
4-9-0

26-8-13
4-2-13

32-0-0
5-3-3

Scale = 1:58.0

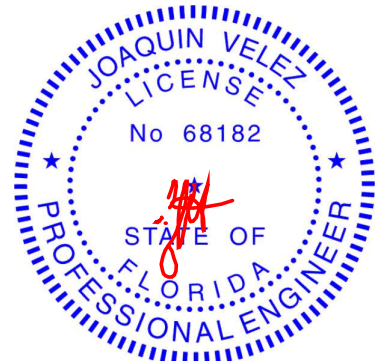


LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.36 16-17 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.68 16-17 >557 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.37 10 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.19 16-17 >999 240				
								Weight: 200 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 9-5-7 oc bracing. Except:
WEBS	2-16: 2x4 SP M 31 or 2x4 SP SS	WEBS	10-0-0 oc bracing: 12-14
	2x4 SP No.2		1 Row at midpt
REACTIONS.			
(size) 2=0-3-8, 10=0-3-8			
Max Horz 2=191(LC 12)			
Max Uplift 2=-100(LC 12), 10=-64(LC 12)			
Max Grav 2=1533(LC 17), 10=1418(LC 17)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4742/385, 3-4=-4555/306, 4-5=-3499/293, 5-6=-3505/300, 6-7=-2729/215, 7-8=-1792/126, 8-9=-967/67, 9-10=-1309/129
BOT CHORD	2-17=-499/4322, 16-17=-424/3990, 15-16=-228/2828, 14-15=-136/1869, 7-14=-970/136
WEBS	4-17=0/413, 4-16=-775/119, 5-16=-57/1395, 6-16=-110/1007, 6-15=-896/156, 7-15=-115/1199, 11-14=-61/993, 8-14=-98/1353, 8-11=-1336/170, 9-11=-105/1526

- 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) 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 31-10-4 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, with BCDL = 10.0psf.
 - 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 2 and 64 lb uplift at joint 10.

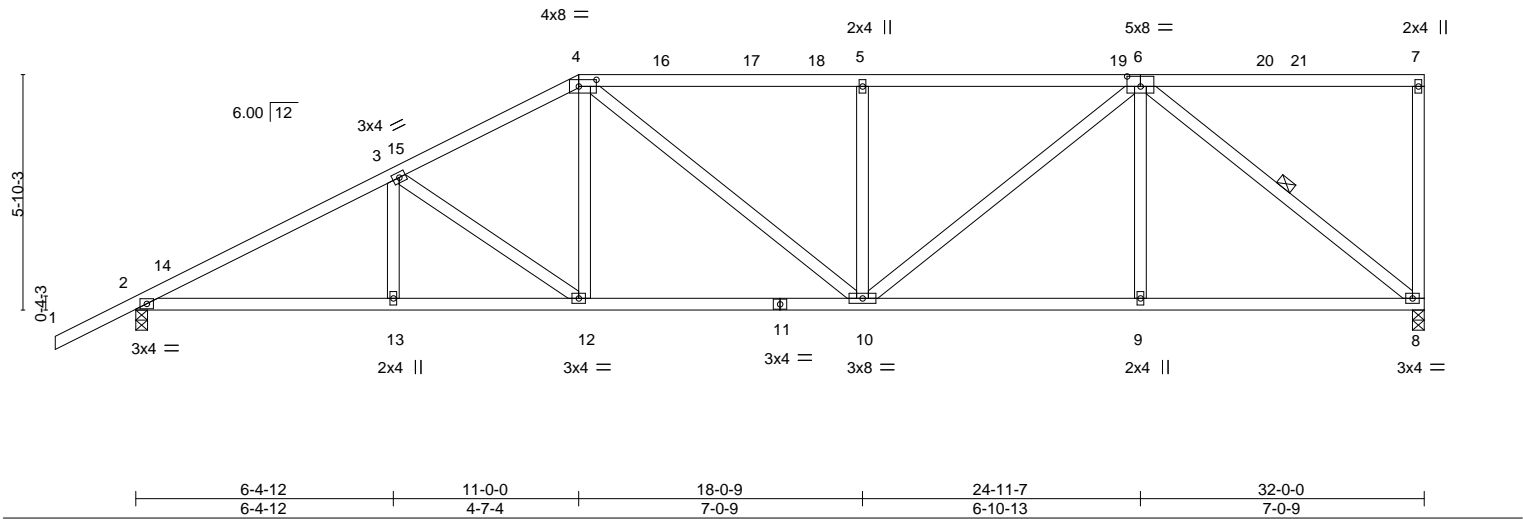


Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535100
6241956	A19	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:53 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAISDcyHym-uvlQoQS0m73heuKejlSOgsMs6lOb8ZBVexou0Uyurx0
-2-0-0 6-4-12 11-0-0 18-0-9 24-11-7 32-0-0
2-0-0 6-4-12 4-7-4 7-0-9 6-10-13 7-0-9
Scale = 1:57.2



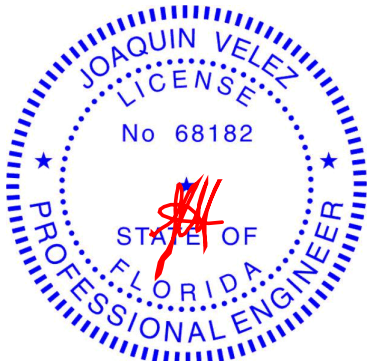
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.10 10-12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.24 10-12 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08 8 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06 10-12 >999 240				
								Weight: 182 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-13 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 6-8

REACTIONS.	
(size)	8=0-3-8, 2=0-3-8
Max Horz	2=168(LC 12)
Max Uplift	8=64(LC 12), 2=107(LC 12)
Max Grav	8=1264(LC 1), 2=1401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2329/141, 3-4=-1898/151, 4-5=-1830/149, 5-6=-1830/149
BOT CHORD	2-13=-223/1993, 12-13=-223/1993, 10-12=-158/1646, 9-10=-97/1290, 8-9=-97/1290
WEBS	3-12=-431/78, 4-12=0/416, 5-10=-440/128, 6-10=-70/693, 6-9=0/297, 6-8=-1629/123

- 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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 31-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 8 and 107 lb uplift at joint 2.



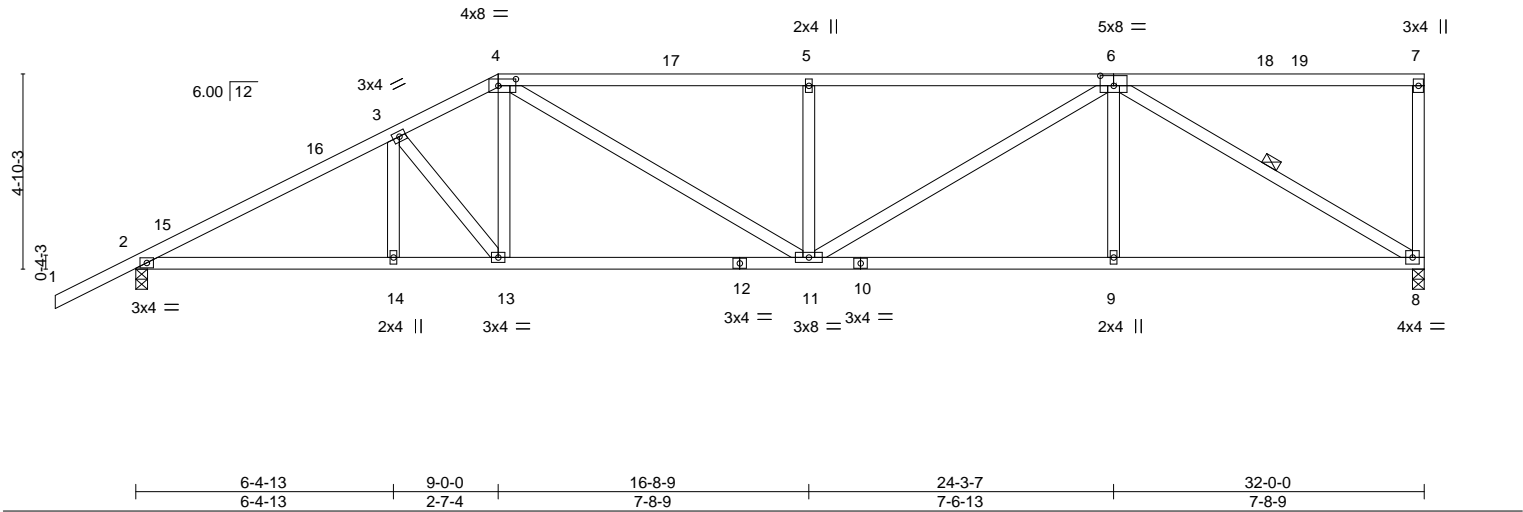
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535101
6241956	A20	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. Wed Jul 24 12:34:53 2024 Page 1
ID:nV5ZFUJaGJLKOI1jrAiSDcyHym-uvlQoS0m73heuKejISOGsMnwIMQ8YXVexou0Uyurx0
-2-0-0 6-4-13 9-0-0 16-8-9 24-3-7 32-0-0
2-0-0 6-4-13 2-7-4 7-8-9 7-6-13 7-8-9

Scale = 1:57.2



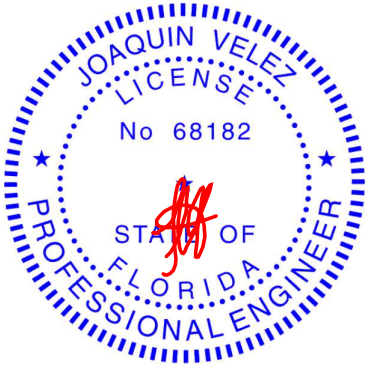
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.99	Vert(LL) -0.13	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.71	Vert(CT) -0.31	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.69	Horz(CT) 0.09	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL) 0.08	11	>999	240	Weight: 173 lb	FT = 20%

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=144(LC 12)
Max Uplift 8=61(LC 12), 2=110(LC 12)
Max Grav 8=1264(LC 1), 2=1401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2321/150, 3-4=-2041/166, 4-5=-2277/171, 5-6=-2277/171
BOT CHORD 2-14=-205/1984, 13-14=-205/1984, 11-13=-159/1801, 9-11=-118/1687, 8-9=-118/1687
WEBS 3-13=-304/71, 4-13=0/389, 4-11=-25/553, 5-11=-482/139, 6-11=-67/688, 6-9=0/324, 6-8=-1929/134

- 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 31-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 8 and 110 lb uplift at joint 2.



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

July 25,2024

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
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535102
6241956	A21	Half Hip Girder	1	2	Job Reference (optional)	

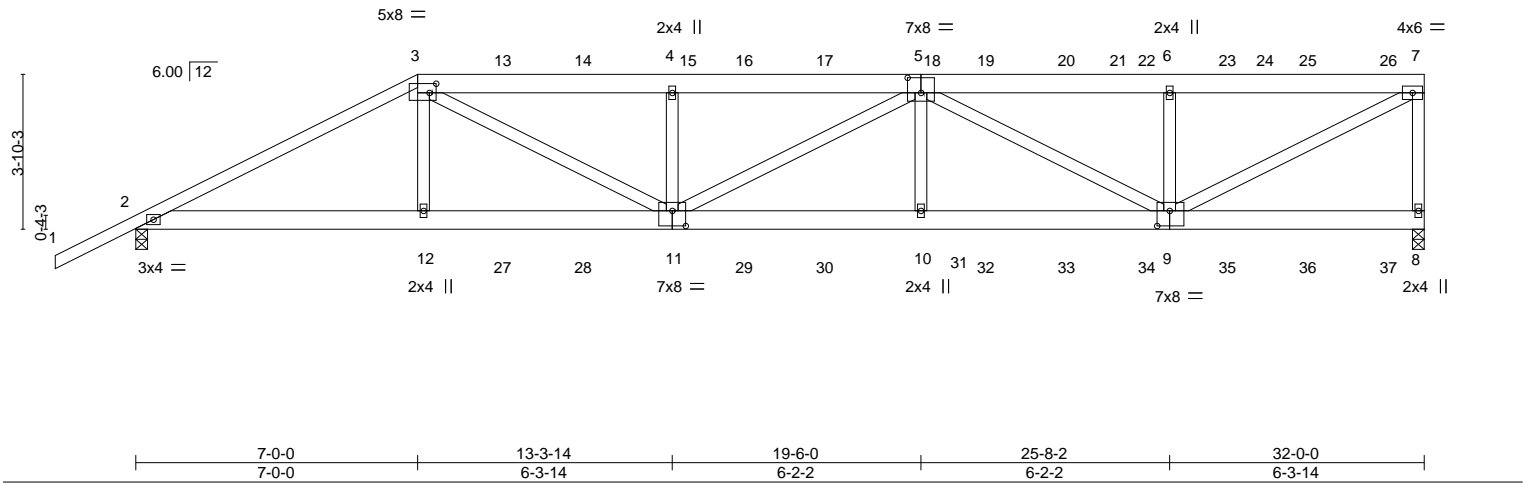
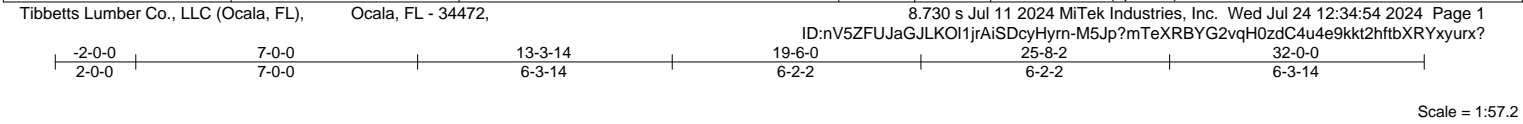


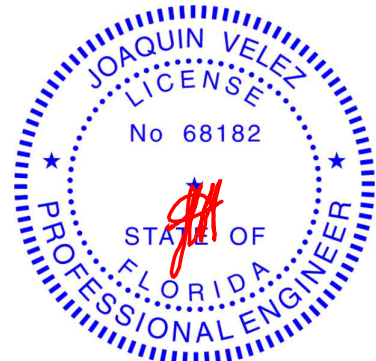
Plate Offsets (X,Y)--		[3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [9:0-3-12,0-4-8], [11:0-4-0,0-4-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.48	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.57	Vert(CT)	-0.31	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.51	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.10	10-11	>999	240	Weight: 418 lb	FT = 20%

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=119(LC 8)
Max Uplift 8=183(LC 8), 2=161(LC 8)
Max Grav 8=2649(LC 1), 2=2468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4738/182, 3-4=-6071/369, 4-5=-6068/368, 5-6=-3987/269, 6-7=-3987/269, 7-8=-2504/251
BOT CHORD 2-12=-188/4152, 11-12=-179/4172, 10-11=-385/5934, 9-10=-385/5934
WEBS 3-12=0/698, 3-11=-214/2239, 4-11=-850/263, 5-10=0/529, 5-9=-2221/133, 6-9=-815/272, 7-9=-301/4479

- 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=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 8 and 161 lb uplift at joint 2.



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

July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535102
6241956	A21	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. Wed Jul 24 12:34:55 2024 Page 2
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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 17-0-12, 123 lb down and 83 lb up at 19-0-12, 123 lb down and 83 lb up at 21-0-12, 123 lb down and 83 lb up at 23-0-12, 123 lb down and 83 lb up at 25-0-12, 123 lb down and 83 lb up at 27-0-12, and 123 lb down and 83 lb up at 29-0-12, and 130 lb down and 81 lb up at 31-0-12 on top chord, and 311 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, 96 lb down at 27-0-12, and 96 lb down at 29-0-12, and 100 lb down at 31-0-12 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: 1-3=-60, 3-7=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-123(B) 12=-264(B) 11=-48(B) 13=-123(B) 14=-123(B) 15=-123(B) 16=-123(B) 17=-123(B) 18=-123(B) 19=-123(B) 20=-123(B) 22=-123(B) 23=-123(B) 25=-123(B) 26=-130(B) 27=-48(B) 28=-48(B) 29=-48(B) 30=-48(B) 31=-48(B) 32=-48(B) 33=-48(B) 34=-48(B) 35=-48(B) 36=-48(B) 37=-50(B)

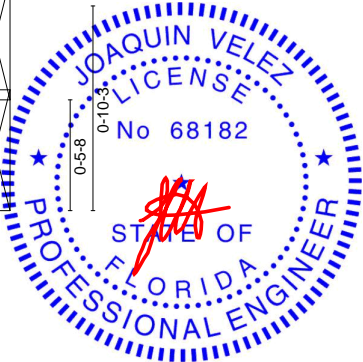
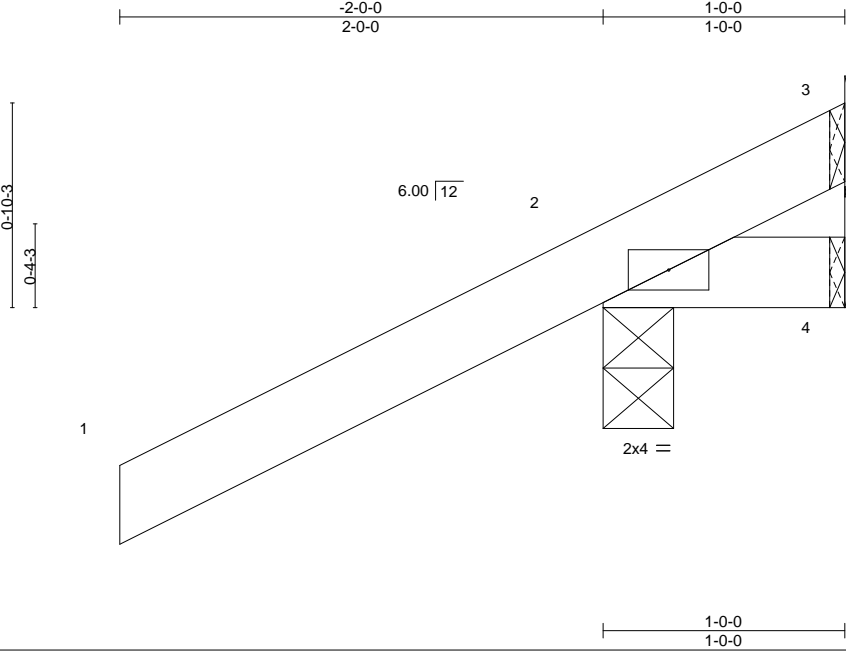
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535103
6241956	C1	Corner Jack	10	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:55 2024 Page 1
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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 0.28	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	****	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=0-3-8, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=100(LC 1), 2=133(LC 12)
Max Grav 3=67(LC 12), 2=289(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 3 and 133 lb uplift at joint 2.

July 25,2024

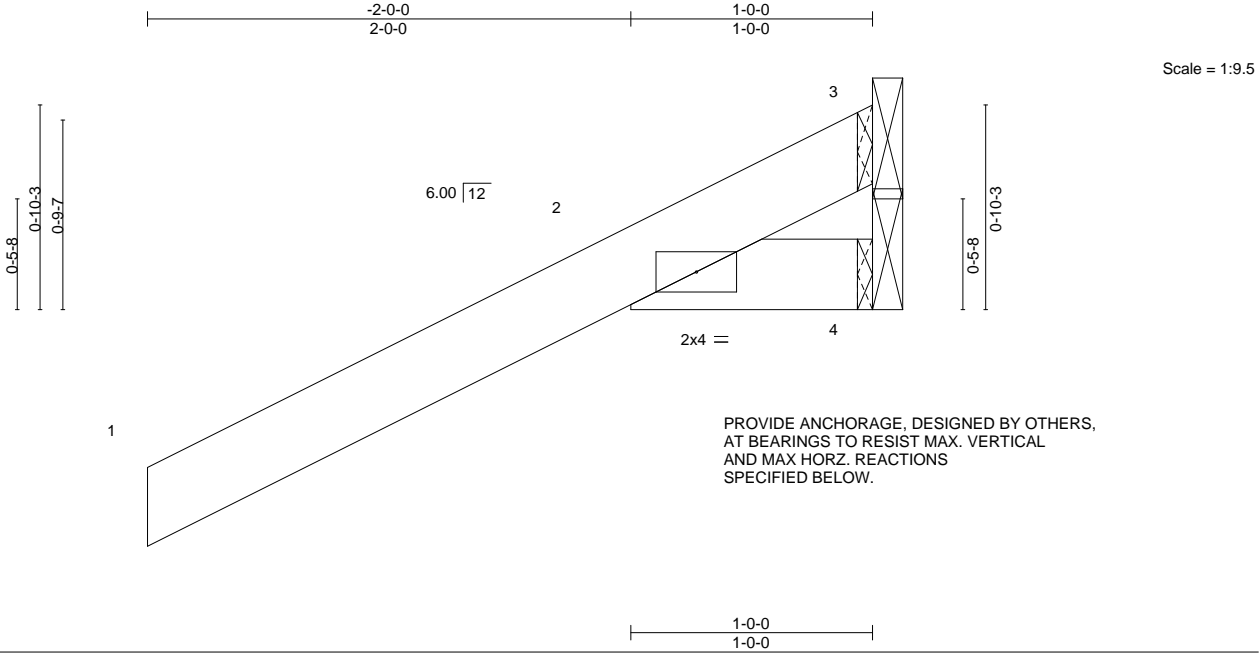
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535104
6241956	C1A	Corner Jack	2	1	Job Reference (optional)	

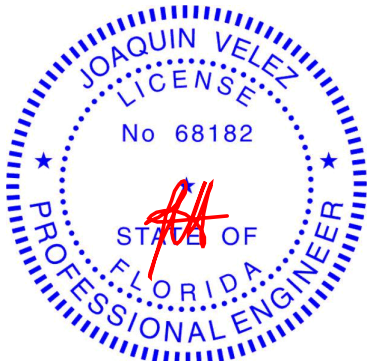
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:55 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-rHtBD6UGlJPuCU1qjUsIHRIIsZBzccqo6FH?5Nyurx_



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 0.32	Vert(LL)	-0.00	2	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.00	2	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						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 6-0-0 oc bracing.
REACTIONS. (size) 3=Mechanical, 4=Mechanical	
Max Horz 3=522(LC 1), 4=522(LC 1)	
Max Uplift 3=77(LC 12)	
Max Grav 3=199(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=633/551	
BOT CHORD 2-4=522/713	

- 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 77 lb uplift at joint 3.



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

July 25,2024

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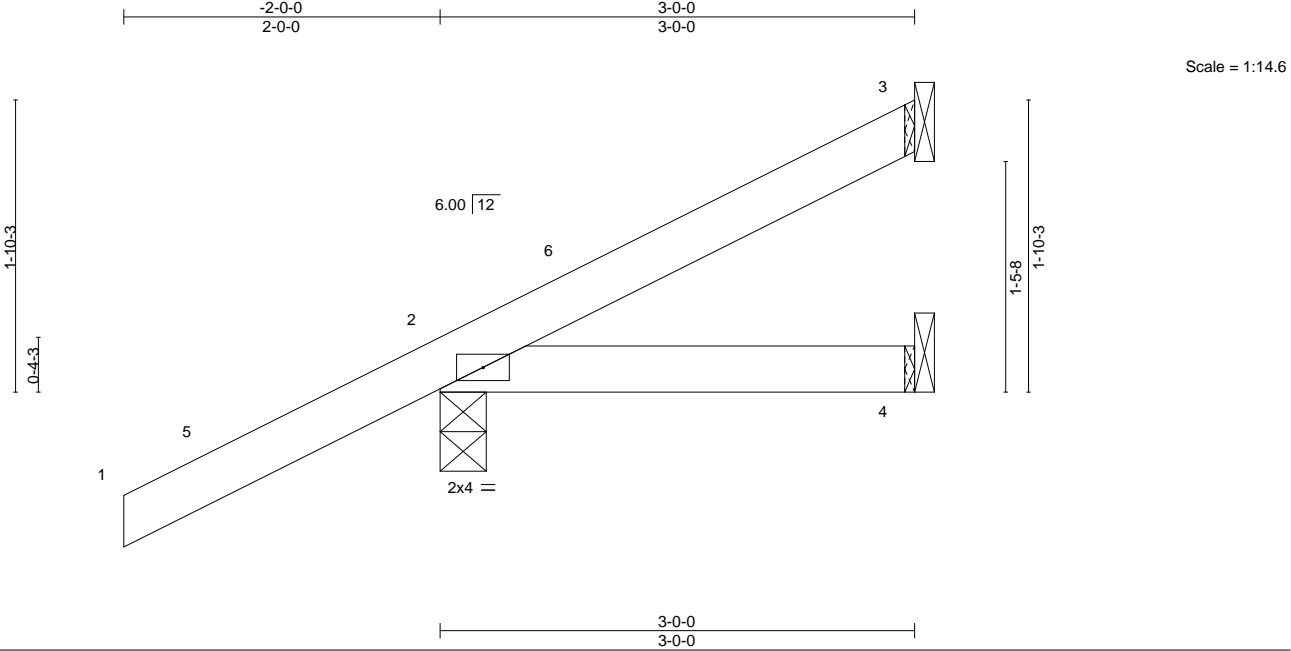
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535105
6241956	C3	Corner Jack	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:56 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAIsDcyHyrn-JUQZQSvU32RGWM3DOR75HV_SSzXmL24yKv0Ycpyurwz



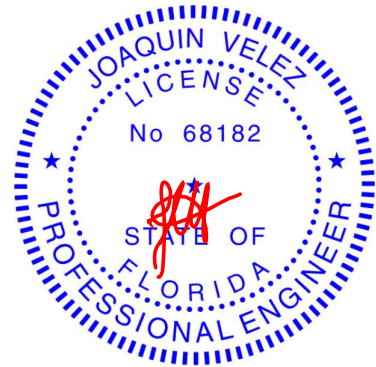
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		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=0-3-8, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=37(LC 17), 2=290(LC 1), 4=56(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; 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 14 lb uplift at joint 3 and 85 lb uplift at joint 2.



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

July 25,2024

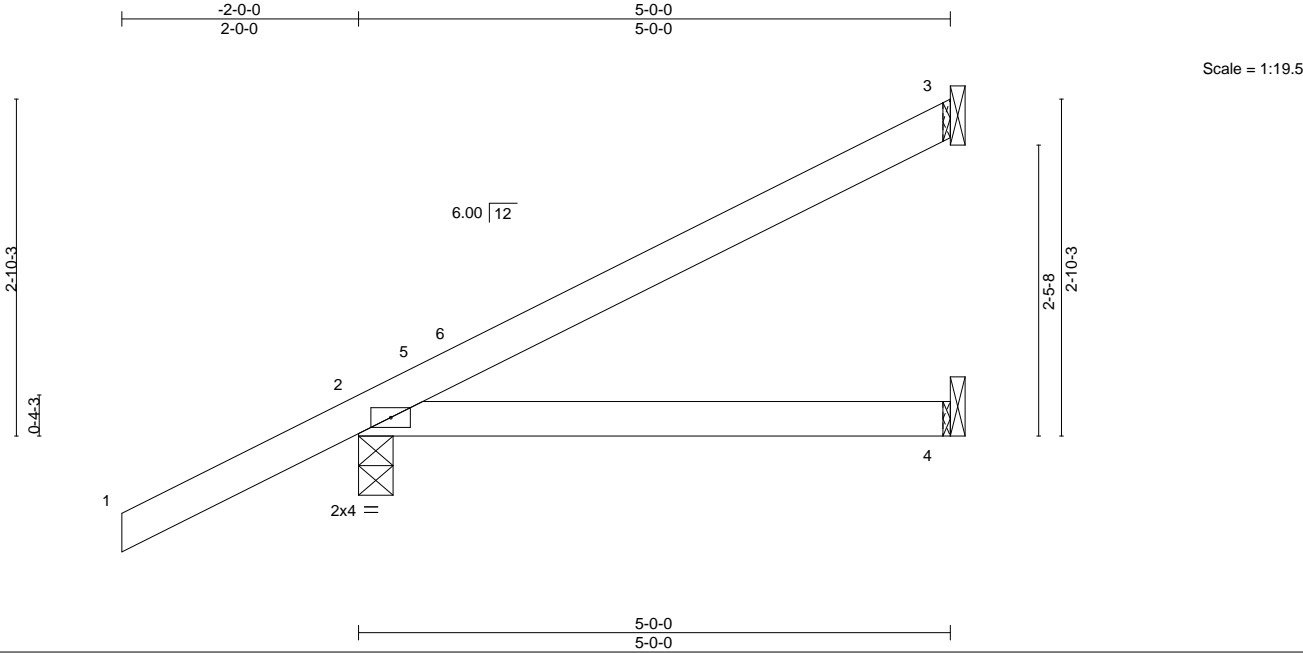
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535106
6241956	C5	Corner Jack	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:56 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-JUQZQSVu32RGWM3DOR?5HV_ThzUjL24yKv0Ycipyurwz



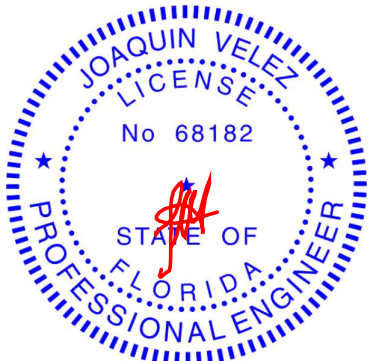
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.03 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.28	Vert(CT) -0.06 2-4	>909	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00 2	****	240	Weight: 19 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.

REACTIONS.	(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
	Max Horz 2=95(LC 12)
	Max Uplift 3=-36(LC 12), 2=-70(LC 12)
	Max Grav 3=115(LC 1), 2=349(LC 1), 4=96(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 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 36 lb uplift at joint 3 and 70 lb uplift at joint 2.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535107
6241956	E01	GABLE	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:57 2024 Page 2
ID:nV5ZFUJaGJLK0I1jrAiSDcyHym-ng_xdoVWqMZ77VePy8WKqjWYUNd4J35ZYm58Gyurwy

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 185 lb up at 2-3-9, 43 lb down and 64 lb up at 4-0-12, 43 lb down and 64 lb up at 6-0-12, 43 lb down and 64 lb up at 8-0-12, 43 lb down and 64 lb up at 10-0-12, 43 lb down and 64 lb up at 12-0-12, 43 lb down and 64 lb up at 14-0-12, and 43 lb down and 64 lb up at 16-0-12, and 43 lb down and 64 lb up at 18-0-12 on top chord, and 165 lb down and 120 lb up at 2-0-0, 17 lb up at 4-0-12, 17 lb up at 6-0-12, 17 lb up at 8-0-12, 17 lb up at 10-0-12, 17 lb up at 12-0-12, 17 lb up at 14-0-12, and 17 lb up at 16-0-12, and 17 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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, 3-9=-60, 9-14=-60, 2-13=-20
- Concentrated Loads (lb)
- Vert: 7=21(F) 3=55(F) 21=-165(F) 50=21(F) 51=21(F) 52=21(F) 53=21(F) 54=21(F) 55=21(F) 56=21(F)

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

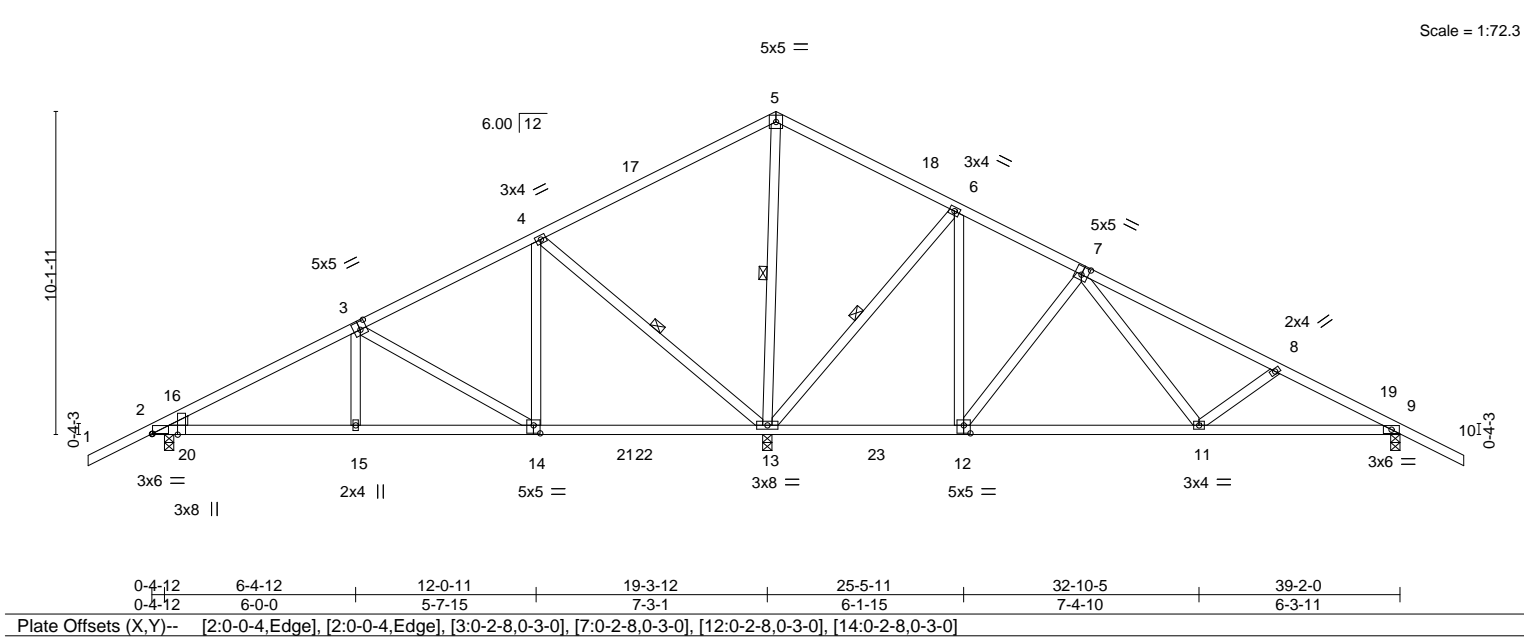
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535108
6241956	E02	Common	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,			8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:58 2024 Page 1			
ID:nV5ZFUJaGJLK01jrAiSDcyHym-FsYJr8W8bgh_lfDcWr1ZNw3i2m7QpstEoCVfgiyurwx						
-2-0-0	6-4-12	12-0-11	19-7-0	25-5-11	29-2-0	35-2-15
2-0-0	6-4-12	5-7-15	7-6-5	5-10-11	3-8-5	6-0-15
						3-11-1
						2-0-0



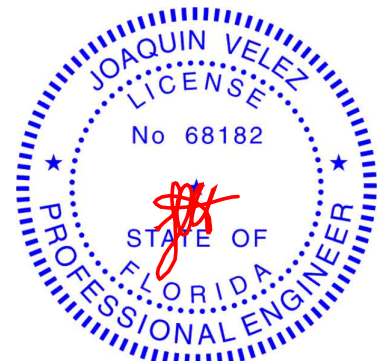
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.08 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.14 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.07 13-14	>999	240	Weight: 227 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-13, 5-13, 6-13
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
Max Horz 2=-178(LC 10)
Max Uplift 2=-223(LC 12), 13=-303(LC 12), 9=-60(LC 12)
Max Grav 2=674(LC 23), 13=2370(LC 2), 9=717(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-754/274, 3-4=-260/197, 4-5=-32/802, 5-6=-23/759, 7-8=-743/0, 8-9=-948/0
BOT CHORD 2-15=-164/593, 14-15=-163/589, 11-12=-51/331, 9-11=0/800
WEBS 3-14=-524/186, 4-14=-154/531, 4-13=-866/327, 5-13=-957/142, 6-13=-881/102,
6-12=0/676, 7-12=-511/88, 7-11=0/521, 8-11=-286/116

- 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 19-7-0, Zone2 19-7-0 to 23-9-15, Zone1 23-9-15 to 41-2-0 zone; cantilever left and right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2, 303 lb uplift at joint 13 and 60 lb uplift at joint 9.



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

July 25,2024

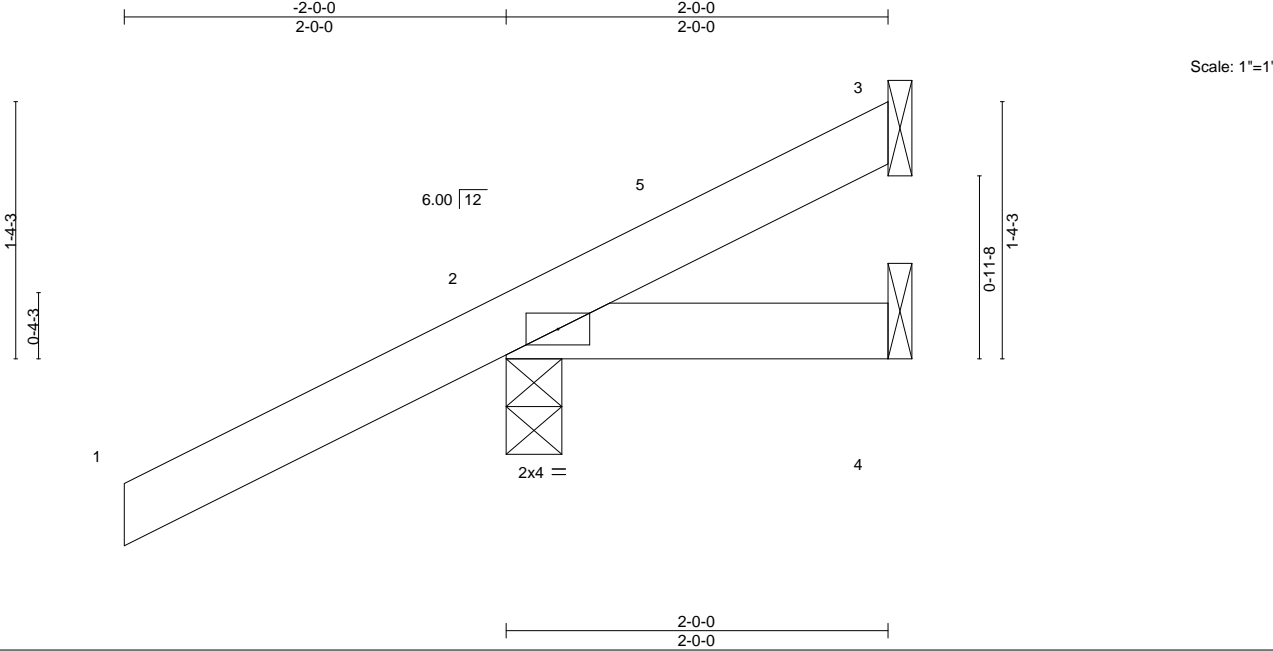
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535109
6241956	E2	Jack-Open	9	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:59 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAIsDcyHym-j36i2UXmMzprNpoo3ZYov7c_OAaDYpP01sFCD8yurww



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) -0.00	2	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.00	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: 10 lb	FT = 20%

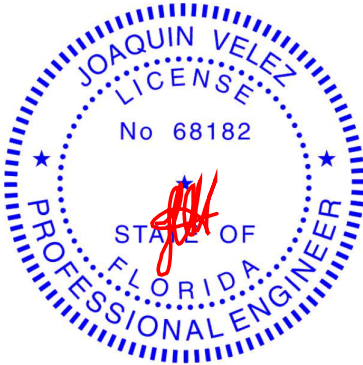
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=60(LC 12)
Max Uplift 3=6(LC 9), 2=-92(LC 12)
Max Grav 3=17(LC 12), 2=263(LC 1), 4=39(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 1-11-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 6 lb uplift at joint 3 and 92 lb uplift at joint 2.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535110
6241956	E2A	Jack-Open	9	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:59 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHym-j36i2UXmMzprNpoo3ZYov7c_OAaDYpP01sFCD8yurww

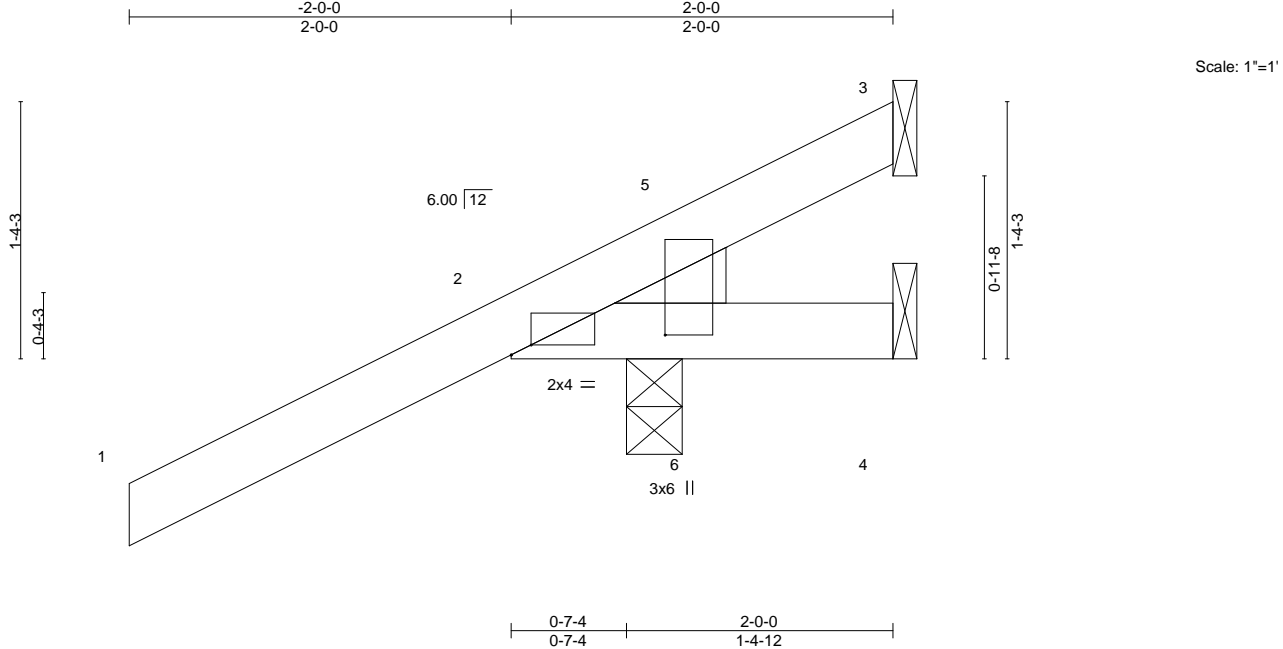


Plate Offsets (X,Y)--		[2:0-1-4,Edge], [2:0-1-4,0-9-11]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.28	Vert(LL)		-0.00		2		>999		360		MT20	244/190
TCDL	10.0	Lumber DOL		1.25		BC	0.04	Vert(CT)		-0.00		2-4		>999		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		>999		240		Weight: 11 lb	FT = 20%

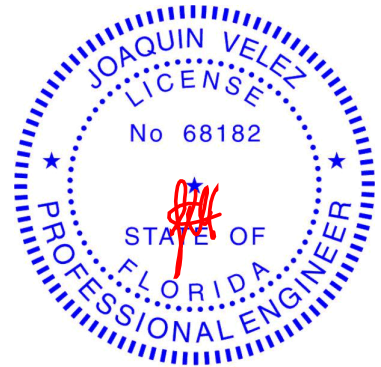
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=60(LC 12)
Max Uplift 3=-6(LC 9), 4=-5(LC 8), 2=-109(LC 12)
Max Grav 3=17(LC 12), 4=39(LC 3), 2=263(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 1-11-13 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 6 lb uplift at joint 3, 5 lb uplift at joint 4 and 109 lb uplift at joint 2.



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

July 25,2024

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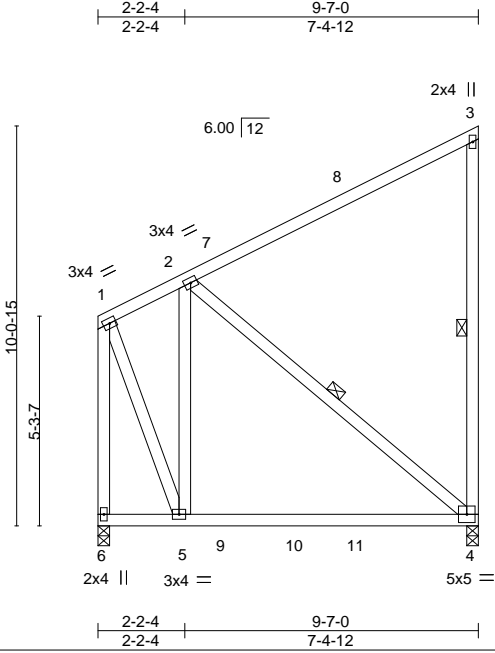
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	1755-C- Frame
6241956	E03	Monopitch	2	1	T34535111

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:58 2024 Page 1
ID:nV5ZFUJaGJLK0I1jrAiSDcyHyrn-FsYjr8W8bgh_lfDcWr1ZNw3kbm7lpw_EoCVfgiyurwx



Scale = 1:58.1

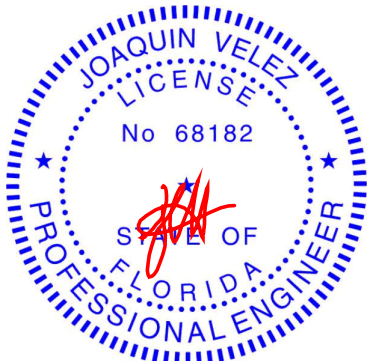
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.10	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.50	Vert(CT)	-0.18	4-5	>626		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.17	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.07	4-5	>999	Weight: 81 lb	FT = 20%
	Code FBC2023/TPI2014							

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 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-4, 2-4

REACTIONS.	(size) 4=0-3-8, 6=0-3-8
Max Horz 6=111(LC 12)	
Max Uplift 4=-184(LC 12), 6=-8(LC 12)	
Max Grav 4=410(LC 2), 6=421(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-482/101	
WEBS 2-5=-258/26, 2-4=-233/311, 1-5=-117/499	

- 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 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-5-4 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 4 and 8 lb uplift at joint 6.



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

July 25,2024

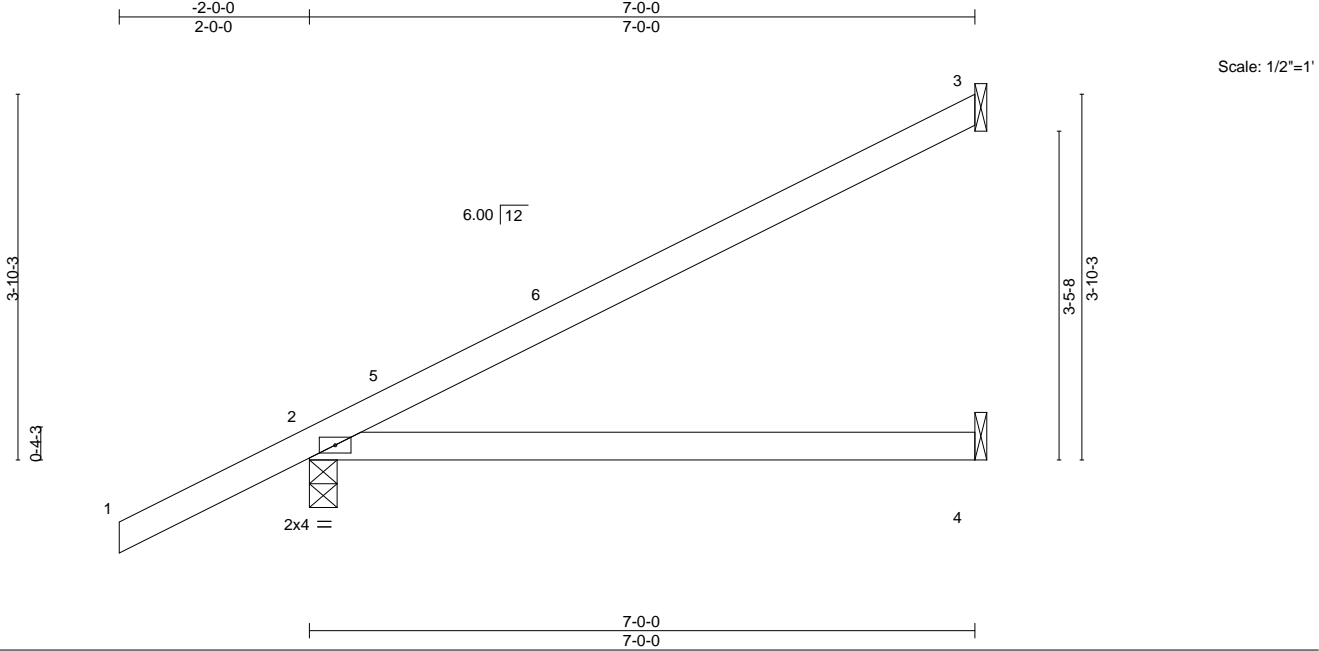
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535112
6241956	E7	Jack-Open	23	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:00 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHym-BFg4GpYP7Hxi_zN_dG41SL81OameHs3XFW_mlayurwv



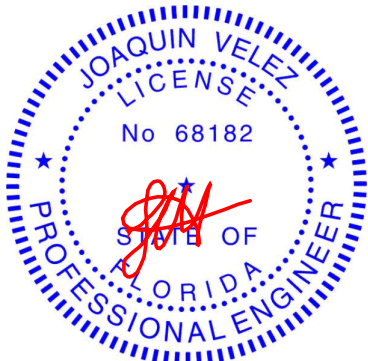
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.72	Vert(LL) -0.13	2-4	>639	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.60	Vert(CT) -0.26	2-4	>319	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	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=0-3-8, 4=Mechanical
Max Horz	2=119(LC 12)	
Max Uplift	3=-62(LC 12), 2=-63(LC 12)	
Max Grav	3=183(LC 1), 2=421(LC 1), 4=136(LC 3)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- 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 62 lb uplift at joint 3 and 63 lb uplift at joint 2.



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

July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535113
6241956	G01	GABLE	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 2
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-fREST9Z1ub3Yc7xBB_bG_Yhlx_Ay0lehUAkJH1yurwu

NOTES-
13) 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, 10-12=-60, 2-11=-20, 3-7=-60, 7-10=-60
Concentrated Loads (lb)
Vert: 3=21(F) 10=21(F) 7=21(F) 5=21(F) 9=21(F) 28=77(F) 29=77(F) 34=21(F) 35=21(F) 36=21(F) 37=21(F)

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

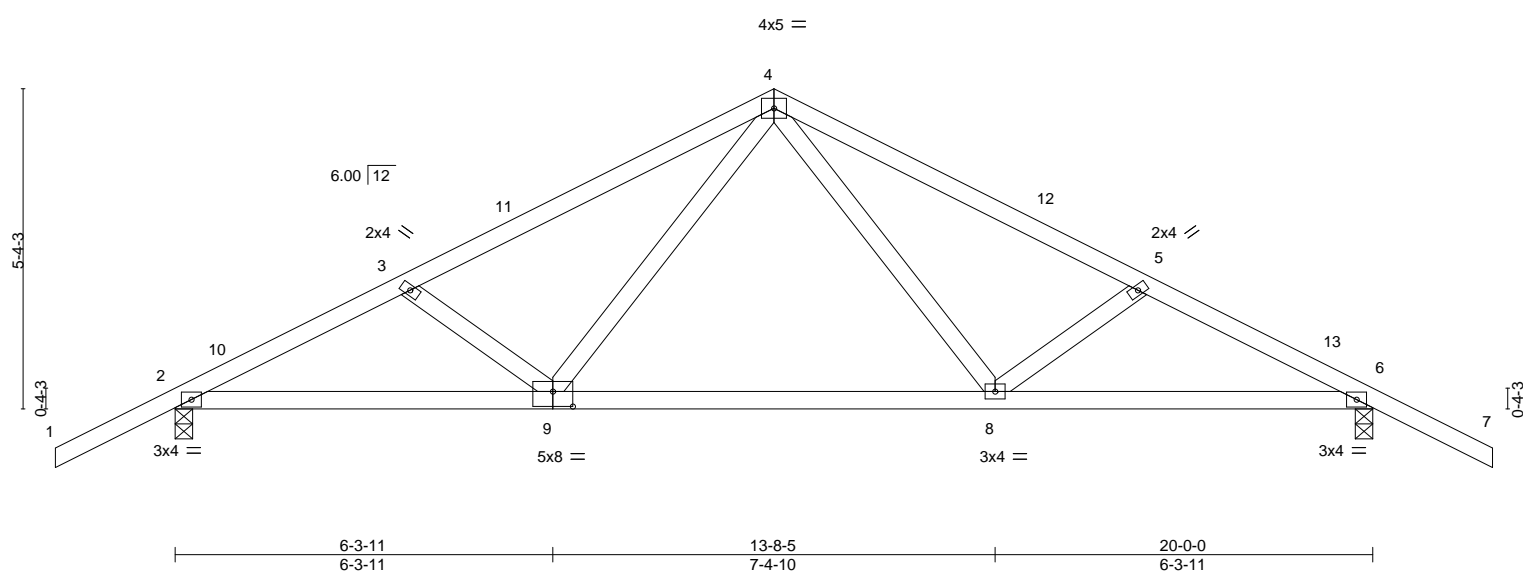
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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535114
6241956	G02	Common	5	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 1
ID:nV5ZFUJaGJLKO1jrAiSDcyHyrr-fREST9Z1ub3Yc7xBB_bG_YhC3_6M0HghUAkJH1yurwu 22-0-0 20-0-0 16-0-15 6-0-15 3-11-1 2-0-0

Scale = 1:38.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.05	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.36				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.04				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03				
								Weight: 97 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD	2x4 SP M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

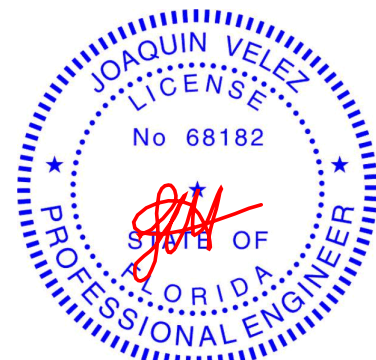
REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=99(LC 11)
Max Grav 2=1139(LC 1), 6=1139(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1927/0, 3-4=-1718/0, 4-5=-1718/0, 5-6=-1927/0
BOT CHORD 2-9=0/1659, 8-9=0/1062, 6-8=0/1659
WEBS 4-8=0/719, 5-8=-268/183, 4-9=0/719, 3-9=-268/183

- 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 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 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

- 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=-80, 6-8=-20
- 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=-80, 6-8=-20
- 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=-100, 6-8=-40
- 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 25,2024

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.

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535114
6241956	G02	Common	5	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 2
ID:nV5ZFUJaGJLK0I1jrAiSDcyHyrm-fREST9Z1ub3Yc7xBB_bG_YhC3_6M0HghUAkJH1yurwu

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=47, 2-10=32, 4-10=19, 4-12=26, 6-12=19, 6-7=14, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-56, 2-10=-40, 4-10=-27, 4-12=35, 6-12=27, 6-7=23
- 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=19, 4-11=26, 4-13=19, 6-13=32, 6-7=47, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-23, 2-11=-27, 4-11=-35, 4-13=27, 6-13=40, 6-7=56
- 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=-29, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-12, 2-4=13, 4-6=-13, 6-7=-9
- 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=-29, 2-4=-33, 4-6=-33, 6-7=-8, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=9, 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=-72, 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=-72, 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=-80, 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=-80, 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=-72, 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=-72, 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=-80, 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=-80, 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=-80, 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=-80, 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=-80, 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=-80, 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=-80, 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=-72, 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=-72, 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

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535114
6241956	G02	Common	5	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 3
ID:nV5ZFUJaGJLKO1jrAiSDcyHyrm-fREST9Z1ub3Yc7xBB_bG_YhC3_6M0HghUAkJH1yurwu

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-20, 2-9=-20, 8-9=-80, 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=-80, 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=-80, 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=-80, 6-8=-20

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535115
6241956	G03	COMMON	1	1	Job Reference (optional)	

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

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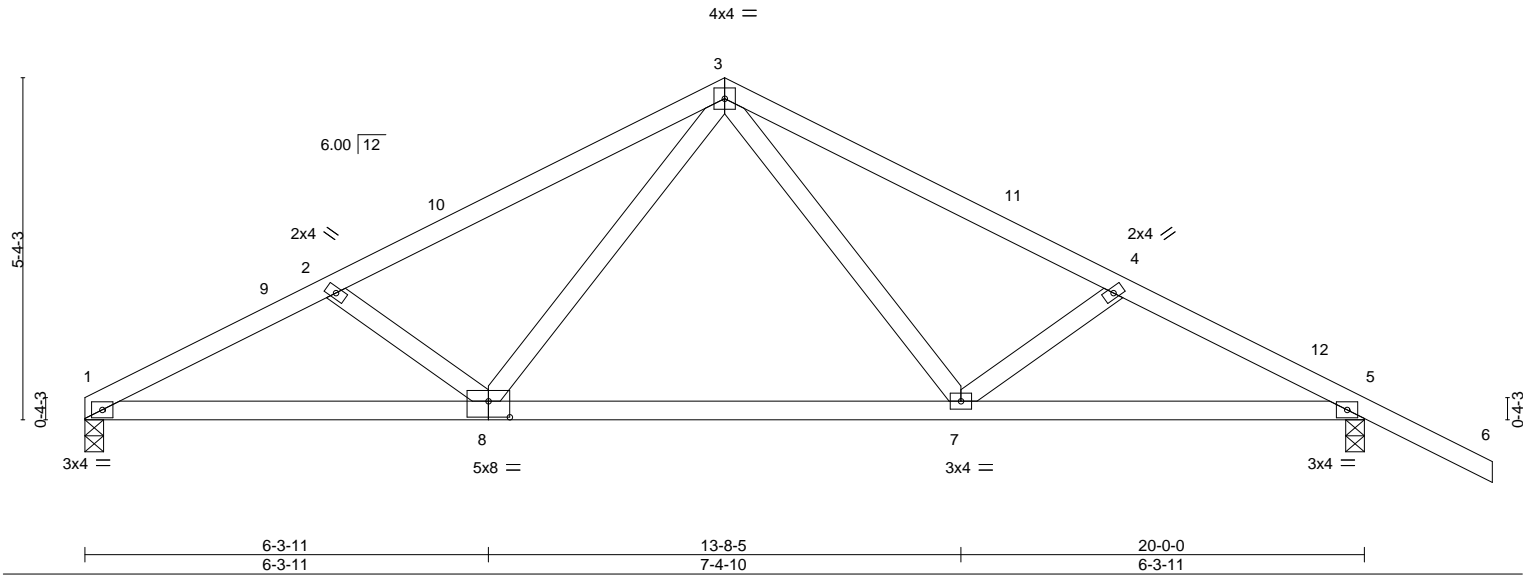


Plate Offsets (X,Y)-- [8:0-4-0-0-3-0]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.73	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.36	7-8	>649	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.04	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.03	7-8	>999	240	Weight: 94 lb	FT = 20%

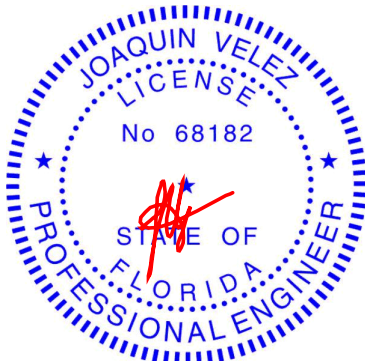
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-95(LC 10)
Max Grav 1=1003(LC 1), 5=1146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1982/0, 2-3=-1759/0, 3-4=-1732/0, 4-5=-1942/0
BOT CHORD 1-8=0/1721, 7-8=0/1075, 5-7=0/1672
WEBS 3-7=0/718, 4-7=-268/183, 3-8=0/732, 2-8=-301/191

- 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 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 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: 1-3=-60, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-50, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 3-6=-20, 1-8=-40, 7-8=-100, 5-7=-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 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535115
6241956	G03	COMMON	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:02 2024 Page 2
ID:nV5ZFUJaGJLKO1jrAiSDcyHym-7eoqhVZffuBPEHWNih6VXmDNiOSclksjqTspTyurwt

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-9=32, 3-9=19, 3-11=26, 5-11=19, 5-6=14, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-9=-40, 3-9=-27, 3-11=35, 5-11=27, 5-6=23
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=19, 3-10=26, 3-12=19, 5-12=32, 5-6=47, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-10=-27, 3-10=-35, 3-12=27, 5-12=40, 5-6=56
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-29, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=-9
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-8, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=12
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=9, 5-6=4, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=17, 5-6=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-17, 3-5=11, 5-6=24
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-28, 3-5=-12, 5-6=-7, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=8, 3-5=8, 5-6=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-12, 3-5=-28, 5-6=-24, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-8, 3-5=-8, 5-6=-4
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-5=15, 5-6=28, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-24, 3-5=24, 5-6=37
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=11, 5-6=24
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-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: 1-3=-56, 3-5=-44, 5-6=-40, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=6, 3-5=6, 5-6=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: 1-3=-44, 3-5=-56, 5-6=-53, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-6, 3-5=-6, 5-6=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: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=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: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=3
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-25, 3-6=-25, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=16, 3-6=16
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=8, 3-6=8, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-16, 3-6=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535115
6241956	G03	COMMON	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:02 2024 Page 3
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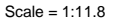
- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20
 - 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20
 - 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20
 - 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20

⚠ 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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 2-9-15 1-7-3 2-9-3
 2-9-15 1-7-3 1-2-1



July 25, 2024

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535117
6241956	H3	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. Wed Jul 24 12:35:03 2024 Page 1
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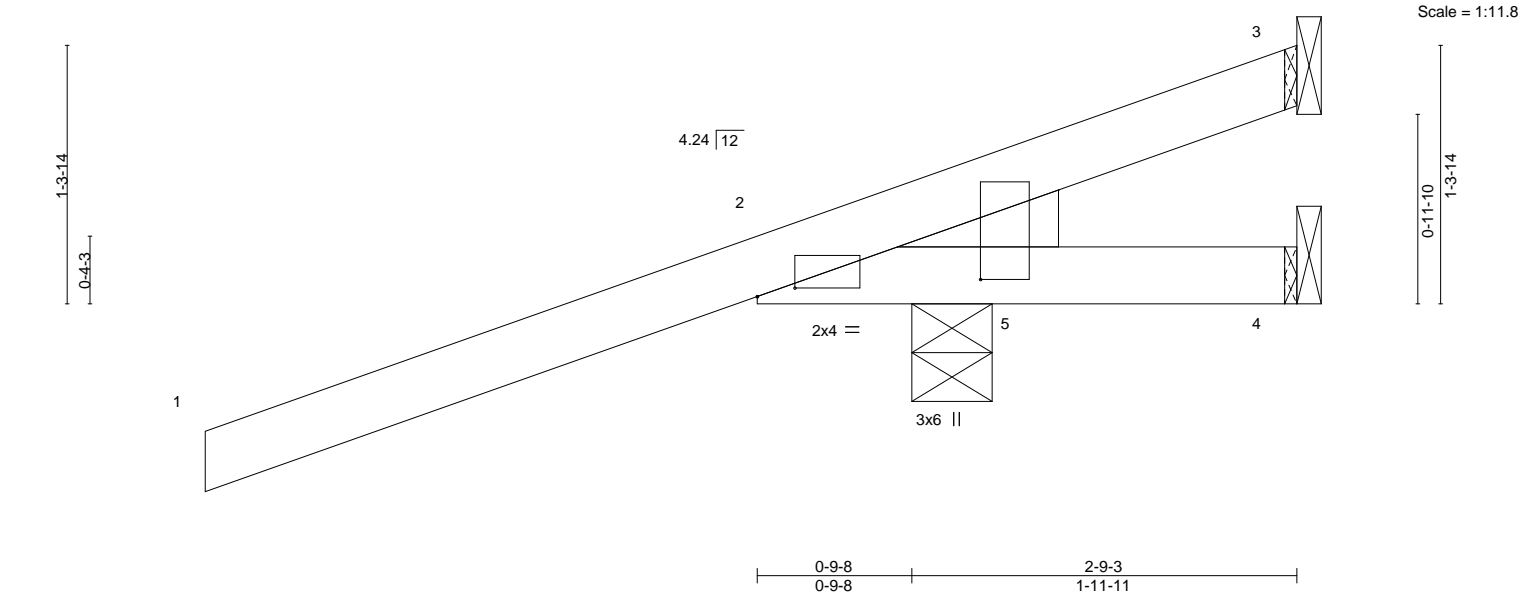


Plate Offsets (X,Y)--		[2:0-2-5,0-0-8], [2:0-1-1,1-1-12]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.02	2-4	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

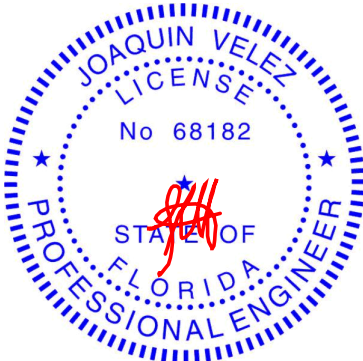
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-4-15
Max Horz 2=59(LC 8)
Max Uplift 3=36(LC 1), 4=74(LC 4), 2=237(LC 8)
Max Grav 3=34(LC 8), 4=193(LC 1), 2=572(LC 1)

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

- 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 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 36 lb uplift at joint 3, 74 lb uplift at joint 4 and 237 lb uplift at joint 2.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 87 lb up at 1-4-15, and 174 lb down and 87 lb up at 1-4-15 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: 1-3=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=-348(F=-174, B=-174)



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Date:

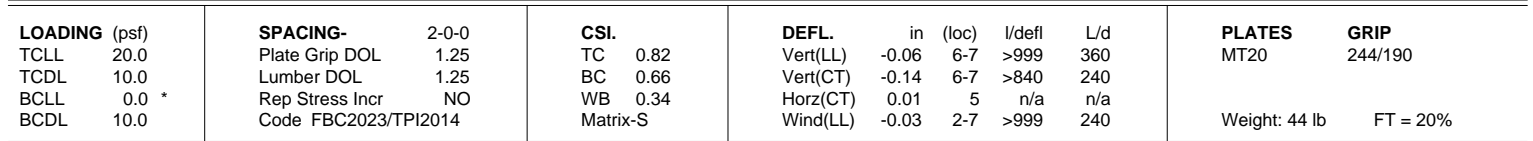
July 25,2024

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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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REACTIONS. (size) 4=Mechanical, 2=0-5-1, 5=Mechanical
 Max Horz 2=119(LC 27)
 Max Uplift 4=-51(LC 8), 2=-170(LC 8)
 Max Grav 4=165(LC 1), 2=582(LC 31), 5=272(LC 3)

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

TOP CHORD	2-3=-788/23
BOT CHORD	2-7=-55/670, 6-7=-55/670
WEBS	3-7=0/288, 3-6=-705/58

NOTES-

- 1) 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=6ft; 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 51 lb uplift at joint 4 and 170 lb uplift at joint 2.
- 7) 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, 54 lb down and 23 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 83 lb down and 56 lb up at 7-0-14, and 83 lb down and 56 lb up at 7-0-14 on top chord, and 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.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

A circular blue ink seal for a Professional Engineer in the State of California. The outer ring contains the text "JOAQUIN VELEZ" at the top, "LICENSE" at the bottom, and "STATE OF CALIFORNIA" around the sides. In the center, it says "No 68182". A red signature is written across the seal.

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) 9=-60(F=-30, B=-30) 11=-39(F=-20, B=-20)

Professional Engineer Seal of the State of Missouri, No. 68182, Joaquin Velez, PE.

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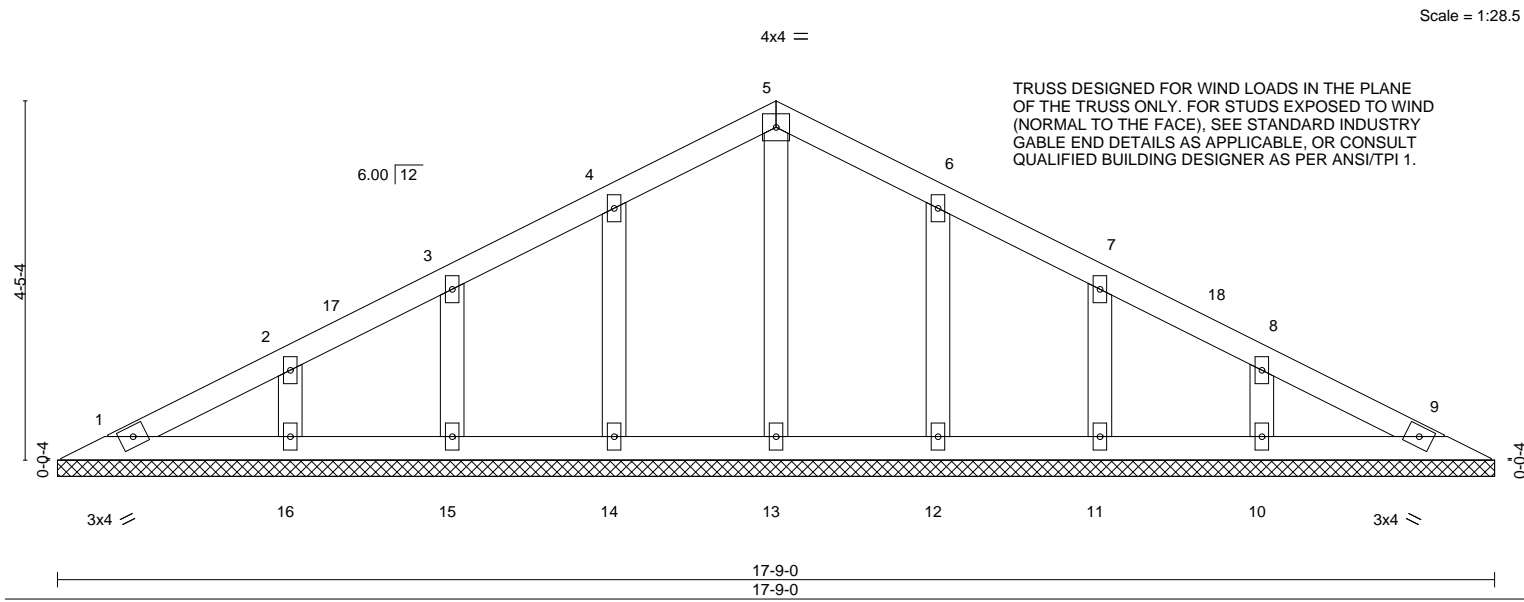
July 25, 2024

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Job	Truss	Truss Type	Qty	Ply	1755-C- Frame	T34535119
6241956	V18	GABLE	1	1	Job Reference (optional)	

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ID:nV5ZFUJaGJLKOl1jrAiSDcyHym-40vb5BbvBWR7Tags68zcBJujBHPDgb7A8yzyMyurwr
17-9-0
8-10-8
8-10-8



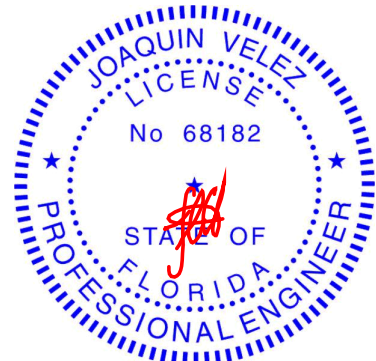
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 76 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 17-9-0.
(lb) - Max Horz 1=68(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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 8-10-8, Zone2 8-10-8 to 12-10-8, Zone1 12-10-8 to 17-1-7 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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) 14, 15, 16, 12, 11, 10.



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Date:

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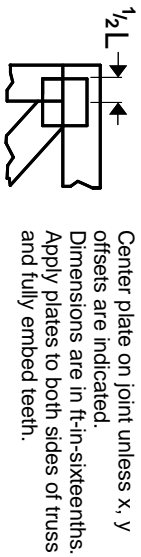
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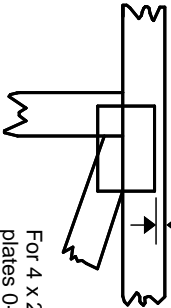
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Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

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

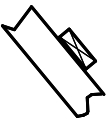
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

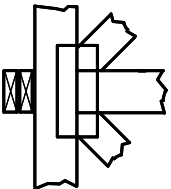
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

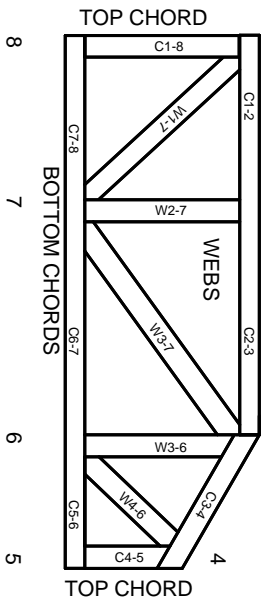
Industry Standards:

ANSI/TP1: 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



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.