

RE: 6250756 1820-B MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

7/30/2024

7/30/2024

7/30/2024

7/30/2024

Site Information:

Customer: Adams Homes-Gainesville Project Name: 6250756 Lot/Block: 139 Model: 1820-B

Address: 225 SW Silver Palm Dr Subdivision: The Preserve at Laurel Lake

City: Lake City State: fl

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

No.

21

22

23

24

Seal#

T34578791

T34578792

T34578793

T34578794

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 24 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet

conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

COITIO	1115 10 6 13 13-3 1.003,	Section 5 of the	FIUITUA DUA
No.	Seal#	Truss Name	Date
1	T34578771	A01	7/30/2024
2	T34578772	A02	7/30/2024
3	T34578773	A03	7/30/2024
4	T34578774	A04	7/30/2024
5	T34578775	A05	7/30/2024
6	T34578776	A06	7/30/2024
7	T34578777	A07	7/30/2024
8	T34578778	A08	7/30/2024
9	T34578779	A09	7/30/2024
10	T34578780	A10	7/30/2024
11	T34578781	A11	7/30/2024
12	T34578782	C1V	7/30/2024
13	T34578783	C3V	7/30/2024
14	T34578784	C5V	7/30/2024
15	T34578785	E01	7/30/2024
16	T34578786	E01X	7/30/2024
17	T34578787	E02	7/30/2024
18	T34578788	E03	7/30/2024
19	T34578789	E7A	7/30/2024
20	T34578790	E7V	7/30/2024
	No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	No. Seal# 1 T34578771 2 T34578772 3 T34578773 4 T34578774 5 T34578775 6 T34578776 7 T34578777 8 T34578778 9 T34578779 10 T34578780 11 T34578781 12 T34578782 13 T34578782 13 T34578783 14 T34578784 15 T34578784 15 T34578785 16 T34578787 18 T34578787 18 T34578788	1 T34578771 A01 2 T34578772 A02 3 T34578773 A03 4 T34578774 A04 5 T34578775 A05 6 T34578776 A06 7 T34578777 A07 8 T34578778 A08 9 T34578779 A09 10 T34578780 A10 11 T34578781 A11 12 T34578782 C1V 13 T34578783 C3V 14 T34578784 C5V 15 T34578785 E01 16 T34578787 E02 18 T34578788 E03 19 T34578789 E7A

APPROVED

By troy crews at 3:29 pm, May 01, 2025

Truss Name

G01

G02

H7V

G01X

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision

based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2027.

Florida COA: 6634

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



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

July 30, 2024

Job Truss Truss Type Qty Ply 1820-B T34578771 6250756 A01 Roof Special 8 Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:44 2024 Page 1 ID:9677KBVwwjNKu0WI9IYrcUzY81Q-3KxulUDrSI8J0xdCVB?GUtzwZUkATJUrhg6F6cytCpf 40-8-0

6-11-4

26-3-4

6-11-4

30-4-0

4-0-12

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

7-14, 5-14

34-0-9

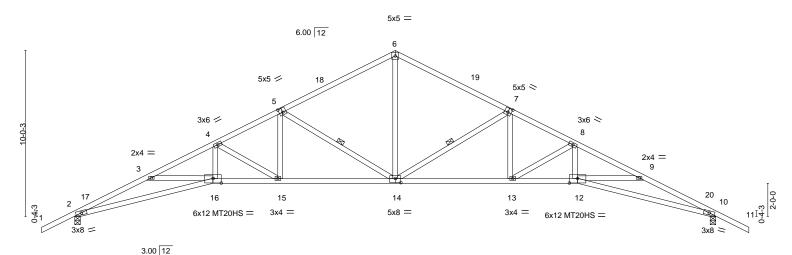
3-8-9

38-8-0

4-7-7

Scale = 1:69.5

2-0-0



 	8-4-0 8-4-0	12-4-12 4-0-12	19-4-0 6-11-4	26-3-4 6-11-4	30-4-0 4-0-12	38-8-0 8-4-0	4
Plate Offsets (X,Y)	[5:0-2-8,0-3-0], [7:0-2-8,0	0-3-0], [12:0-6-0,0)-3-4], [14:0-4-0,0-3-0], [16:0	-6-0,0-3-4]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/T	2-0-0 1.25 1.25 YES	CSI. TC 0.85 BC 0.97 WB 0.53 Matrix-S	DEFL. in (loc) Vert(LL) -0.45 14 Vert(CT) -0.93 14-15 Horz(CT) 0.63 10 Wind(LL) 0.25 14	l/defl L/d >999 360 >495 240 n/a n/a >999 240	PLATES GRIF MT20 244/ MT20HS 187/ Weight: 206 lb FT	190

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

-2-0-0 2-0-0

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

2x4 SP No.2 *Except*

2-16,10-12: 2x4 SP M 31 or 2x4 SP SS

3-8-9

4-0-12

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=-175(LC 10)

Max Uplift 2=-128(LC 12), 10=-128(LC 12) Max Grav 2=1663(LC 1), 10=1663(LC 1)

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

TOP CHORD $2\text{-}3\text{=-}5166/360,\ 3\text{-}4\text{=-}4976/262,\ 4\text{-}5\text{=-}3428/246,\ 5\text{-}6\text{=-}2243/226,\ 6\text{-}7\text{=-}2243/222,}$

7-8=-3428/253, 8-9=-4976/278, 9-10=-5166/375

BOT CHORD 2-16=-262/4637, 15-16=-112/4336, 14-15=-55/3018, 13-14=-78/3018, 12-13=-142/4336, 10-12=-291/4637

WEBS 6-14=-48/1524, 7-14=-1293/150, 7-13=0/867, 8-13=-1505/74, 8-12=-0/1235,

5-14=-1293/146, 5-15=0/867, 4-15=-1505/66, 4-16=0/1235

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=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 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



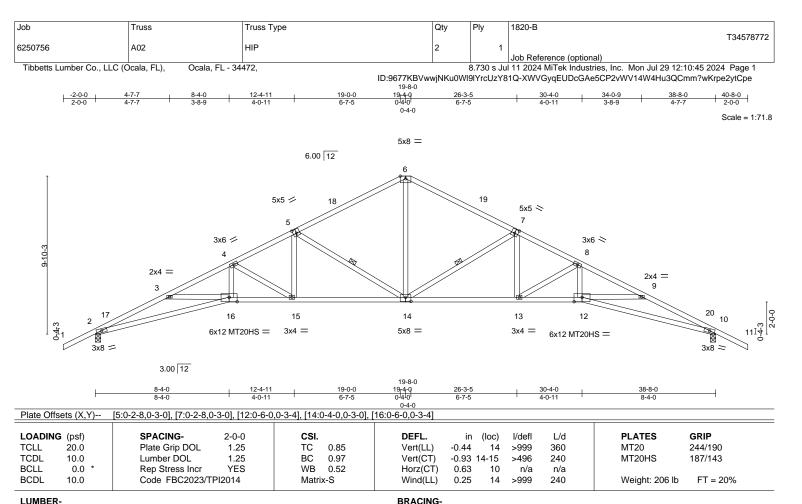
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024



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





TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

5-14, 7-14

LUMBER-

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

2x4 SP No.2 *Except* 2-16,10-12: 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 10=0-4-0 Max Horz 2=175(LC 11)

Max Uplift 2=-128(LC 12), 10=-128(LC 12) Max Grav 2=1663(LC 1), 10=1663(LC 1)

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

TOP CHORD 2-3=-5159/328, 3-4=-4971/230, 4-5=-3427/218, 5-6=-2242/198, 6-7=-2242/194,

7-8=-3427/223 8-9=-4971/243 9-10=-5159/340

BOT CHORD 2-16=-236/4630, 15-16=-87/4332, 14-15=-33/3018, 13-14=-50/3018, 12-13=-111/4332,

10-12=-259/4630

WEBS 4-16=0/1233, 4-15=-1502/65, 5-15=0/866, 5-14=-1293/131, 7-14=-1293/134, 7-13=0/866,

8-13=-1502/71, 8-12=0/1233, 6-14=-40/1523

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=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 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578773 6250756 A03 Hip 2 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:46 2024 Page 1

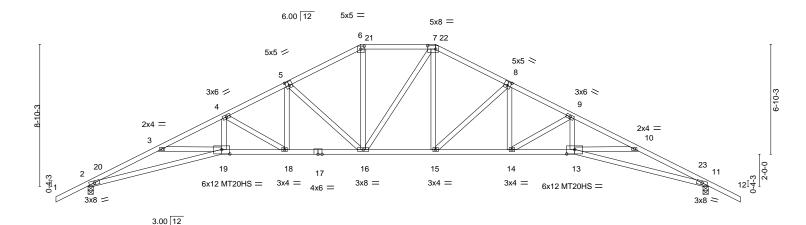
Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

2-2-0 oc bracing: 18-19,13-14.

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-?j3e9AF6_wO1FFnbcc2kZl3lEHPgxAS89_bMAUytCpd -2-0-0 2-0-0 34-0-9 38-8-0 26-3-4 30-4-0 40-8-0 3-8-9 4-0-12 4-7-5 4-8-0 4-7-5 4-0-12 3-8-9 4-7-7 2-0-0

Scale = 1:71.8



<u> </u>	8-4-0	12-4-12	17-0-0	21-8-0	26-3-4 4-7-5	30-4-0	38-8-0	
Plate Offsets (X,Y)	8-4-0 [5:0-2-8,0-3-0], [6:0-2-8,0-	<u>4-0-12</u> -2-41 [7:0-6-0 0-	4-7-5 -2-81 [8·0-2-8 0-3-0]	4-8-0 ' [13:0-6-0 0-3-4] [1		4-0-12	8-4-0	
Tidle Offsets (X, I)	[0.0 2 0,0 3 0], [0.0 2 0,0	2 +j, [1.0 0 0,0	2 0], [0.0 2 0,0 3 0],	10.0 0 0,0 0 4], [1	3.0 0 0,0 0 4]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.44 15	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.88 14-15	>522 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT	,	n/a n/a		
BCDL 10.0	Code FBC2023/TF	PI2014	Matrix-S	Wind(LL) 0.24 15	>999 240	Weight: 219 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except*

2-19,11-13: 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 11=0-4-0

Max Horz 2=156(LC 11)

Max Uplift 2=-128(LC 12), 11=-128(LC 12) Max Grav 2=1663(LC 1), 11=1663(LC 1)

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

TOP CHORD $2\text{-}3\text{=-}5161/376,\ 3\text{-}4\text{=-}4987/288,\ 4\text{-}5\text{=-}3409/257,\ 5\text{-}6\text{=-}2512/235,\ 6\text{-}7\text{=-}2207/235,}$

7-8=-2510/239, 8-9=-3410/263, 9-10=-4986/300, 10-11=-5161/387

BOT CHORD 2-19=-280/4632, 18-19=-141/4348, 16-18=-62/2988, 15-16=0/2205, 14-15=-80/2989,

13-14=-163/4348, 11-13=-302/4632

WEBS 4-19=0/1239, 4-18=-1555/91, 5-18=0/868, 5-16=-1084/112, 6-16=-18/827, 7-15=-22/825,

8-15=-1087/115, 8-14=-1/870, 9-14=-1554/96, 9-13=0/1239

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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 21-8-0, Zone2 21-8-0 to 26-2-5, Zone1 26-2-5 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578774 6250756 A04 Hip 2 Job Reference (optional)
8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:46 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

4-4-0

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-?j3e9AF6_wO1FFnbcc2kZl3laHTaxDz89_bMAUytCpd 34-0-9 23-8-0 30-4-0 38-8-0 40-8-0 4-4-0 6-8-0 3-8-9 4-7-7 2-0-0

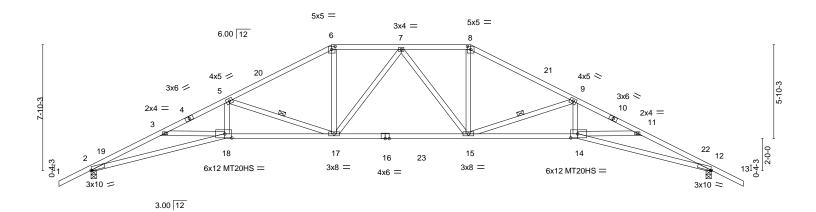
Structural wood sheathing directly applied or 2-1-15 oc purlins.

5-17, 9-15

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

1 Row at midpt

Scale = 1:71.8



		8-4-0	15-0)-0	1	23-8-0	1	30-4-0	1	38-8-0	
		8-4-0	6-8	-0	l	8-8-0		6-8-0	1	8-4-0	<u> </u>
Plate Offs	ets (X,Y)	[2:0-0-10,Edge], [6:0-2-8,0)-2-4], [8:0-2-8	,0-2-4], [12:0	-0-10,Edge],	[14:0-5-4,0-3-0],	[18:0-5-4,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.54 15-17	>844	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-1.01 15-17	>456	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.63 12	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matrix	k-S	Wind(LL)	0.23 14-15	>999	240	Weight: 202 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

-2-0-0 2-0-0

TOP CHORD 2x4 SP No.2 *Except*

4-6,8-10: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 12=0-4-0

Max Horz 2=-140(LC 10)

Max Uplift 2=-128(LC 12), 12=-128(LC 12) Max Grav 2=1808(LC 17), 12=1808(LC 18)

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

TOP CHORD $2\text{-}3\text{=-}5688/359,\ 3\text{-}5\text{=-}5621/306,\ 5\text{-}6\text{=-}3182/221,\ 6\text{-}7\text{=-}2815/230,\ 7\text{-}8\text{=-}2777/234,}$

8-9=-3146/225. 9-11=-5514/319. 11-12=-5589/370

3-8-9

6-8-0

BOT CHORD 2-18=-263/5232, 17-18=-164/5000, 15-17=-40/2910, 14-15=-188/4803, 12-14=-287/5035 5-18=0/1498, 5-17=-2280/174, 6-17=0/1095, 7-17=-309/56, 7-15=-309/56, 8-15=0/1108, **WEBS**

9-15=-2222/181, 9-14=0/1451

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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-4-0, Zone1 19-4-0 to 23-8-0, Zone2 23-8-0 to 27-10-15, Zone1 27-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 12=128.



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

July 30,2024



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Job Truss Truss Type Qty Ply 1820-B T34578775 6250756 A05 Hip 2 | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:47 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-Tvd1NWGklDWutPLnAJZz6VbSlhlPgcSHOeKwiwytCpc

6-4-0

25-8-0

6-4-0

Scale = 1:71.8

40-8-0

2-0-0

38-8-0

4-7-7

34-0-9

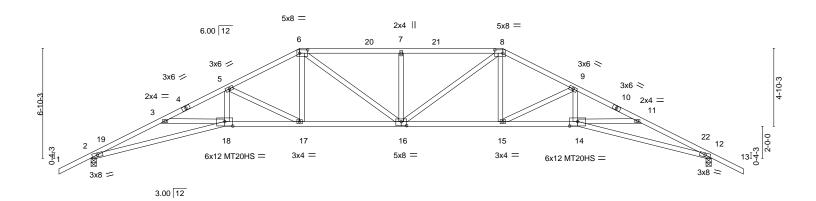
3-8-9

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

Rigid ceiling directly applied or 2-2-0 oc bracing.

30-4-0

4-8-0



<u> </u>	8-4-0	13-0-0	19-4-0	25-8-0	30-4-0	38-8-0	
	8-4-0	4-8-0	6-4-0	6-4-0	4-8-0	8-4-0	
Plate Offsets (X,Y)	[6:0-6-0,0-2-8], [8:0-6-0,0-	-2-8], [14:0-6-0,0)-3-4], [16:0-4-0,0-3-0], [1	8:0-6-0,0-3-4]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES 0	SRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL) -0.47 1	6 >970 360	MT20 2	244/190
TCDL 10.0	Lumber DOL	1.25	BC 1.00	Vert(CT) -0.96 16-17	7 >481 240	MT20HS 1	87/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT) 0.64 1	2 n/a n/a		
BCDL 10.0	Code FBC2023/TF	PI2014	Matrix-S	Wind(LL) 0.26 1	6 >999 240	Weight: 201 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except*

2-18,12-14: 2x4 SP M 31 or 2x4 SP SS

3-8-9

4-8-0

WEBS 2x4 SP No.2

-2-0-0 2-0-0

REACTIONS. (size) 2=0-4-0, 12=0-4-0

Max Horz 2=124(LC 11)

Max Uplift 2=-128(LC 12), 12=-128(LC 12) Max Grav 2=1663(LC 1), 12=1663(LC 1)

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

TOP CHORD 2-3=-5157/374, 3-5=-4992/298, 5-6=-3252/239, 6-7=-3259/268, 7-8=-3259/268,

8-9=-3252/245 9-11=-4992/310 11-12=-5156/386

BOT CHORD 2-18=-278/4628, 17-18=-153/4355, 16-17=-38/2880, 15-16=-50/2880, 14-15=-175/4355, 12-14=-300/4628

> 5-18=0/1238, 5-17=-1672/133, 6-17=0/853, 6-16=-46/617, 7-16=-426/125, 8-16=-46/617, 8-15=0/853, 9-15=-1672/139, 9-14=0/1238

NOTES-

WEBS

- 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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-8-0, Zone2 25-8-0 to 30-2-4, Zone1 30-2-4 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 12=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578776 6250756 A06 Hip Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:48 2024 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-x5BPasHMWXelVZw_k14Cfj8eg5BjP5RRcl4TFNytCpb

5-6-11

30-4-0

2-8-0

27-8-0

5-6-11

34-0-9

3-8-9

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

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

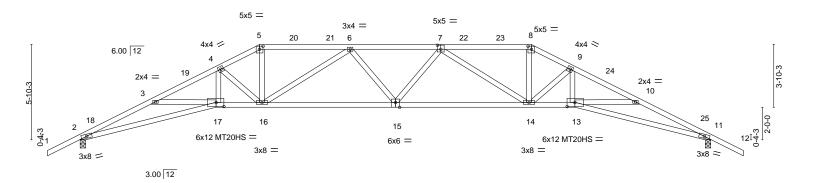
38-8-0

4-7-7

Scale = 1:70.6

40-8-0

2-0-0



		8-4-0	11-0-0	19-4-0	27-8-0	30-4-0	38-8-0	
	1	8-4-0	2-8-0	8-4-0	8-4-0	2-8-0	8-4-0	
Plate Offsets	(X,Y)	[5:0-2-8,0-2-4], [7:0-2-8,	0-3-0], [8:0-2	-8,0-2-4], [13:0-5-12,0-3-0], [1	5:0-3-0,Edge], [17:0-5-12,0-3-0]			
LOADING (p	psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL) -0.51 15	>895 360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.25	BC 0.61	Vert(CT) -1.05 15-16	>437 240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT) 0.63 11	n/a n/a		
BCDL 1	0.0	Code FBC2023/	TPI2014	Matrix-S	Wind(LL) 0.28 15	>999 240	Weight: 195 lb	FT = 20%
							_	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-2-0-0 2-0-0

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP M 31 or 2x4 SP SS WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 11=0-4-0 Max Horz 2=107(LC 11)

Max Uplift 2=-128(LC 12), 11=-128(LC 12) Max Grav 2=1663(LC 1), 11=1663(LC 1)

3-8-9

2-8-0

5-6-11

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

2-3=-5163/376, 3-4=-4978/284, 4-5=-3747/248, 5-6=-3380/236, 6-7=-4100/266, TOP CHORD

7-8=-3379/243, 8-9=-3747/256, 9-10=-4978/296, 10-11=-5163/388

BOT CHORD 2-17=-279/4634, 16-17=-134/4340, 15-16=-140/4033, 14-15=-139/4033, 13-14=-158/4340, 11-13=-303/4634

WEBS 4-17=-7/1206, 4-16=-1341/107, 5-16=-46/1432, 6-16=-892/94, 7-14=-892/94,

8-14=-50/1432, 9-14=-1341/112, 9-13=-13/1206

- 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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 27-8-0, Zone2 27-8-0 to 31-10-15, Zone1 31-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578777 6250756 A07 Hip | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:48 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-x5BPasHMWXelVZw_k14Cfj8Zm5BuPAKRcl4TFNytCpb

5-2-0

24-6-0

5-2-0

29-8-0

5-2-0

34-0-9

4-4-9

Structural wood sheathing directly applied.

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

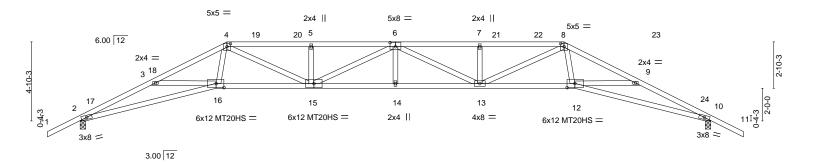
38-8-0

4-7-7

Scale = 1:70.6

40-8-0

2-0-0



	L	8-4-0	14-2-0	19-4	-	24-6-0			30-4-0		38-8-0	
	1	8-4-0	5-10-0	5-2	-0 '	5-2-0	1		5-10-0	'	8-4-0	ı
Plate Offsets	s (X,Y)	[4:0-2-8,0-2-4], [6:0-4-0,	0-3-0], [8:0-2-8,0)-2-4], [12:0-5-12,0	-3-0], [16:0	0-5-12,0-3-0]						
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC 0.97		Vert(LL)	-0.66	14	>698	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.25	BC 0.60		Vert(CT)	-1.32	14	>349	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.34		Horz(CT)	0.71	10	n/a	n/a		
BCDL 1	10.0	Code FBC2023/	ΓPI2014	Matrix-S		Wind(LL)	0.37	14	>999	240	Weight: 187 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.2 *Except*

4-6,6-8: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

-2-0-0 2-0-0

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=91(LC 11)

Max Uplift 2=-128(LC 12), 10=-128(LC 12) Max Grav 2=1663(LC 1), 10=1663(LC 1)

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

TOP CHORD 2-3=-5178/390, 3-4=-4945/261, 4-5=-5329/339, 5-6=-5329/339, 6-7=-5329/337,

7-8=-5329/337 8-9=-4945/273 9-10=-5178/402

4-4-9

5-2-0

BOT CHORD 2-16=-294/4649, 15-16=-109/4048, 14-15=-218/5733, 13-14=-218/5733, 12-13=-129/4048, 10-12=-317/4649

WEBS 4-16=0/1306, 4-15=-97/1527, 5-15=-327/98, 6-15=-534/27, 6-13=-534/27, 7-13=-327/98,

8-13=-97/1527, 8-12=0/1306

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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-8-0, Zone2 29-8-0 to 33-10-15, Zone1 33-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578778 6250756 80A Hip Girder Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:50 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-tUJ9?Xlc28uTks4MrS6gk8D_avvot3pk4cZaJFytCpZ 34-4-15 40-8-0 25-8-0 31-8-0 38-8-0

6-8-0

6-0-0

2-8-15

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

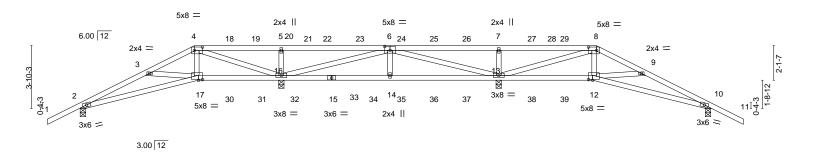
Rigid ceiling directly applied or 10-0-0 oc bracing.

4-3-1

6-8-0

Scale = 1:70.6

2-0-0



	1	7-3-0	12-4-0	19-0-0	25-8-0	ı	31-5-0) ,	38-8-0	İ
		7-3-0	5-1-0	6-8-0	6-8-0	ı	5-9-0	- 1	7-3-0	ı
Plate Offset	s (X,Y)	[4:0-6-0,0-2-8], [6:0-4	4-0,0-3-0], [8:0-6-0,0	0-2-8], [12:0-3-0,0-0-8], [17	':0-3-0,0-0-8]					
LOADING ((psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DC	L 1.25	TC 0.69	Vert(LL) -0.0	5 10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.51	Vert(CT) -0.1	2 10-12	>999	240		
BCLL	0.0 *	Rep Stress In	cr NO	WB 0.41	Horz(CT) 0.0	6 10	n/a	n/a		
BCDL	10.0	Code FBC20	23/TPI2014	Matrix-S	Wind(LL) 0.0	2 14	>999	240	Weight: 363 lb	FT = 20%
					. , ,					

TOP CHORD

BOT CHORD

LUMBER- BRACING-

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

2-0-0

4-3-1

2-8-15

5-4-0

WEBS 2x4 SP No.2

REACTIONS. All bearings 0-4-0.
(lb) - Max Horz 2=-74(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-131(LC 8), 13=-139(LC 8)

Max Grav All reactions 250 lb or less at joint(s) except 2=663(LC 19), 10=728(LC 20), 16=2456(LC 19),

13=2514(LC 20)

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

TOP CHORD 2-3=-1328/30, 3-4=-1035/0, 4-5=-8/1133, 5-6=-8/1132, 6-7=-1/1128, 7-8=-1/1129,

8-9=-1307/0, 9-10=-1566/32

BOT CHORD 2-17=0/1158, 16-17=0/988, 14-16=-81/1055, 13-14=-81/1055, 12-13=0/1253,

10-12=0/1376

WEBS 3-17=-296/137, 4-17=0/808, 4-16=-2240/0, 5-16=-825/253, 6-16=-2265/184, 6-14=0/640,

 $6\text{-}13\text{=-}2263/185, \, 7\text{-}13\text{=-}867/267, \, 8\text{-}13\text{=-}2488/0, \, 8\text{-}12\text{=-}0/882, \, 9\text{-}12\text{=-}285/158}$

NOTES-

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=131, 13=139.



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

July 30,2024

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	1820-B	
6250756	A08	Hip Girder	1	2	Joh Reference (ontional)	T34578778

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:50 2024 Page 2 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-tUJ9?Xlc28uTks4MrS6gk8D_avvot3pk4cZaJFytCpZ

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 252 lb down and 172 lb up at 7-0-0, 122 lb down and 83 lb up at 9-0-12, 122 lb down and 83 lb up at 11-0-12, 127 lb down and 85 lb up at 13-0-12, 127 lb down and 85 lb up at 15-0-12, 127 down and 85 lb up at 19-0-12, 127 lb down and 85 lb up at 19-7-4, 127 lb down and 85 lb up at 21-7-4, 127 lb down and 85 lb up at 23-7-4, 122 lb down and 83 lb up at 25-7-4, 122 lb down and 83 lb up at 27-7-4, and 122 lb down and 83 lb up at 29-7-4, and 252 lb down and 172 lb up at 31-8-0 on top chord, and 312 lb down at 7-3-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 97 lb down at 13-0-12, 97 lb down at 15-0-12, 97 lb down at 15-0-12, 97 lb down at 19-0-12, down at 21-7-4, 97 lb down at 23-7-4, 95 lb down at 25-7-4, 95 lb down at 27-7-4, and 95 lb down at 29-7-4, and 312 lb down at 31-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 2-17=-20, 12-17=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 4=-205(B) 8=-205(B) 17=-262(B) 12=-262(B) 6=-127(B) 14=-49(B) 7=-122(B) 13=-48(B) 18=-122(B) 20=-122(B) 21=-127(B) 22=-127(B) 23=-127(B) 24=-127(B) 25=-127(B) 26=-127(B) 27=-122(B) 29=-122(B) 30=-48(B) 31=-48(B) 32=-49(B) 33=-49(B) 34=-49(B) 35=-49(B) 36=-49(B) 37=-49(B) 38=-48(B)



Job Truss Truss Type Qty Ply 1820-B T34578779 6250756 A09 Hip Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:51 2024 Page 1 ID:9677KBVwwjNKu0Wl9IYrcUzY81Q-MgsXDtJEpS0KM0fZP9dvGLm9vIDQcSAtJGI7riytCpY

5-6-11

30-4-0

2-8-0

27-8-0

5-6-11

34-0-9

3-8-9

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

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

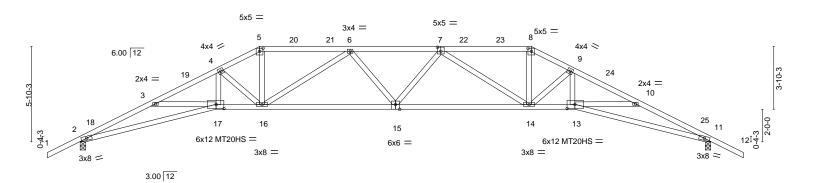
38-8-0

4-7-7

Scale = 1:70.6

40-8-0

2-0-0



∟		8-4-0	11-0-0	19-4-0	27-8-0	30-4-0	38-8-0	
		8-4-0	2-8-0	8-4-0	8-4-0	2-8-0	8-4-0	
Plate Offsets ((X,Y)	[5:0-2-8,0-2-4], [7:0-2-8,	0-3-0], [8:0-2	-8,0-2-4], [13:0-5-12,0-3-0], [1	5:0-3-0,Edge], [17:0-5-12,0-3-0]			
LOADING (ps	sf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL) -0.51 15	>895 360	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.25	BC 0.61	Vert(CT) -1.05 15-16	>437 240	MT20HS	187/143
BCLL 0).0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT) 0.63 11	n/a n/a		
BCDL 10	0.0	Code FBC2023/7	TPI2014	Matrix-S	Wind(LL) 0.28 15	>999 240	Weight: 195 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

3-8-9

2-8-0

5-6-11

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 11=0-4-0

Max Horz 2=107(LC 11)

Max Uplift 2=-128(LC 12), 11=-128(LC 12) Max Grav 2=1663(LC 1), 11=1663(LC 1)

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

2-3=-5163/376, 3-4=-4978/284, 4-5=-3747/248, 5-6=-3380/236, 6-7=-4100/266, TOP CHORD

7-8=-3380/243, 8-9=-3747/256, 9-10=-4978/296, 10-11=-5163/388

BOT CHORD 2-17=-279/4634, 16-17=-134/4340, 15-16=-140/4033, 14-15=-139/4033, 13-14=-158/4340,

11-13=-303/4634

WEBS 4-17=-7/1206, 4-16=-1341/107, 5-16=-46/1432, 6-16=-892/94, 7-14=-892/94,

8-14=-50/1432, 9-14=-1341/112, 9-13=-13/1206

-2-0-0 2-0-0

- 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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 27-8-0, Zone2 27-8-0 to 31-10-15, Zone1 31-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578780 6250756 A10 Hip | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:51 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0WI9IYrcUzY81Q-MgsXDtJEpS0KM0fZP9dvGLm4?IDbcX3tJGI7riytCpY

5-2-0

24-6-0

5-2-0

29-8-0

5-2-0

34-0-9

4-4-9

Structural wood sheathing directly applied.

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

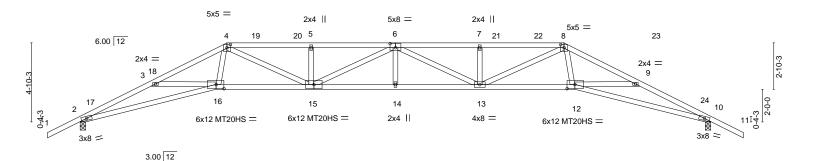
38-8-0

4-7-7

Scale = 1:70.6

40-8-0

2-0-0



	L	8-4-0	14-2-0	19-4	-	24-6-0			30-4-0		38-8-0	
	1	8-4-0	5-10-0	5-2	-0 '	5-2-0	1		5-10-0	'	8-4-0	ı
Plate Offsets	s (X,Y)	[4:0-2-8,0-2-4], [6:0-4-0,	0-3-0], [8:0-2-8,0)-2-4], [12:0-5-12,0	-3-0], [16:0	0-5-12,0-3-0]						
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC 0.97		Vert(LL)	-0.66	14	>698	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.25	BC 0.60		Vert(CT)	-1.32	14	>349	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.34		Horz(CT)	0.71	10	n/a	n/a		
BCDL 1	10.0	Code FBC2023/	ΓPI2014	Matrix-S		Wind(LL)	0.37	14	>999	240	Weight: 187 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.2 *Except*

4-6,6-8: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

-2-0-0 2-0-0

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=91(LC 11)

Max Uplift 2=-128(LC 12), 10=-128(LC 12) Max Grav 2=1663(LC 1), 10=1663(LC 1)

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

TOP CHORD 2-3=-5178/390, 3-4=-4945/261, 4-5=-5329/339, 5-6=-5329/339, 6-7=-5329/337,

7-8=-5329/337 8-9=-4945/273 9-10=-5177/402

4-4-9

5-2-0

BOT CHORD 2-16=-294/4649, 15-16=-109/4048, 14-15=-218/5733, 13-14=-218/5733, 12-13=-129/4048, 10-12=-317/4649

WEBS 4-16=0/1306, 4-15=-97/1527, 5-15=-327/98, 6-15=-534/27, 6-13=-534/27, 7-13=-327/98,

8-13=-97/1527, 8-12=0/1306

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=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-8-0, Zone2 29-8-0 to 33-10-15, Zone1 33-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



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

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578781 6250756 A11 Roof Special Girder 3 Job Reference (optional)

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

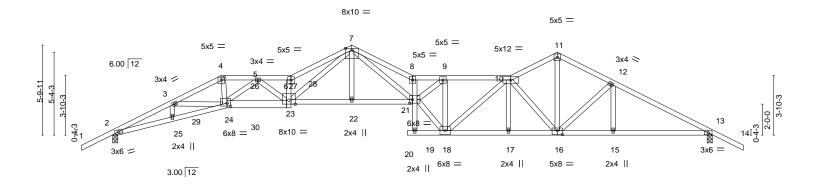
8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:52 2024 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-qtQwQDKtZm8BzAElzt88pZlL4iXrLww0Xw2hO8ytCpX

Structural wood sheathing directly applied or 5-7-6 oc purlins.

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

21-5-4 7₁4₁8 9-4-6 0 4 8

Scale = 1:74.3



0 ₇ 4 ₇ 0 0-4 ¹ 0	3-10-4 7-0-0 7 ₁ 4 ₁ 8 11-6-0 3-6-4 3-1-12 0 ¹ 4 ¹ 8 4-1-8	12-0 _f 0 15-5-0 19-0 0-6-0 3-5-0 3-7-	-0 0-4-0 2-1-4 4-2-						
Plate Offsets (X,Y) [-	Plate Offsets (X,Y) [4:0-2-8,0-2-4], [16:0-4-0,0-3-0], [21:0-2-4,0-2-12], [24:0-2-12,0-2-4]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.63 BC 0.66 WB 0.63 Matrix-S	DEFL. in Vert(LL) -0.53 Vert(CT) -1.08 Horz(CT) 0.38 Wind(LL) 0.31	(loc) I/defl L/d 20 >864 360 20 >426 240 13 n/a n/a 20 >999 240	PLATES GRIP MT20 244/190 Weight: 666 lb FT = 20%				

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

23-24: 2x6 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 13=0-4-0

Max Horz 2=-106(LC 25)

Max Uplift 2=-142(LC 8), 13=-133(LC 8) Max Grav 2=2303(LC 1), 13=1838(LC 1)

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

2-3=-7439/142, 3-4=-7655/205, 4-5=-7490/189, 5-6=-9781/310, 6-7=-11442/403, TOP CHORD

7-8=-12767/439, 8-9=-11223/360, 9-10=-4913/222, 10-11=-2883/155, 11-12=-2909/157,

12-13=-3260/121

BOT CHORD 2-25=-57/6654, 24-25=-64/6739, 23-24=-180/8762, 17-18=-75/4287, 16-17=-77/4285,

15-16=-20/2816, 13-15=-20/2816, 22-23=-33/5231, 21-22=-32/5224 5-24=-1714/148, 8-21=-5663/228, 7-22=0/393, 4-24=0/3035, 3-24=-81/472,

7-23=-241/6714, 6-23=-5261/256, 7-21=-285/8318, 9-18=-4964/158, 10-18=-35/816,

18-21=-136/6554, 9-21=-171/7846, 12-16=-370/44, 11-16=-92/2361, 10-16=-2689/126,

5-23=-15/1336

NOTES-

WFBS

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

July 30,2024



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

Continued 2011 3 at 1 3 2

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



Job	Truss	Truss Type	Qty	Ply	1820-B
6250756	A11	Roof Special Girder	1		T34578781
0200.00	· · ·	Trees openial chao.		3	Job Reference (optional)

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:52 2024 Page 2 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-qtQwQDKtZm8BzAElzt88pZlL4iXrLww0Xw2hO8ytCpX

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 302 lb down and 172 lb up at 7-0-0, and 162 lb down and 83 lb up at 9-0-12, and 162 lb down and 85 lb up at 11-0-12 on top chord, and 312 lb down at 7-0-0, and 95 lb down at 9-0-12, and 95 lb down at 11-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

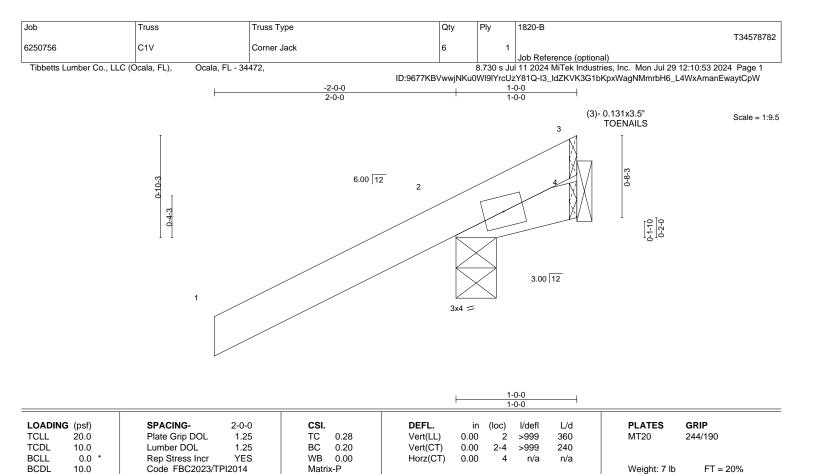
Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 8-10=-60, 10-11=-60, 11-14=-60, 2-24=-20, 21-24=-20, 13-20=-20

Concentrated Loads (lb)

Vert: 4=-205(F) 23=-48(F) 26=-122(F) 28=-122(F) 29=-262(F) 30=-48(F)





BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

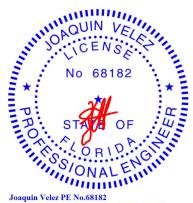
Max Horz 2=81(LC 12)

Max Uplift 2=-218(LC 12), 4=-91(LC 1) Max Grav 2=290(LC 1), 4=94(LC 12)

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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2 = 218



Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

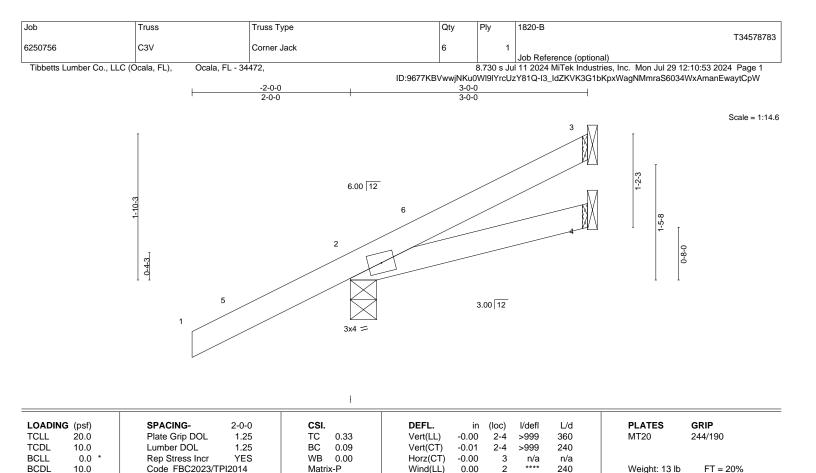
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024



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LUMBER-

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

BRACING-

TOP CHORD BOT CHORD

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

REACTIONS.

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

Max Horz 2=71(LC 12)

Max Uplift 3=-14(LC 9), 2=-85(LC 12)

Max Grav 3=35(LC 17), 2=292(LC 1), 4=55(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



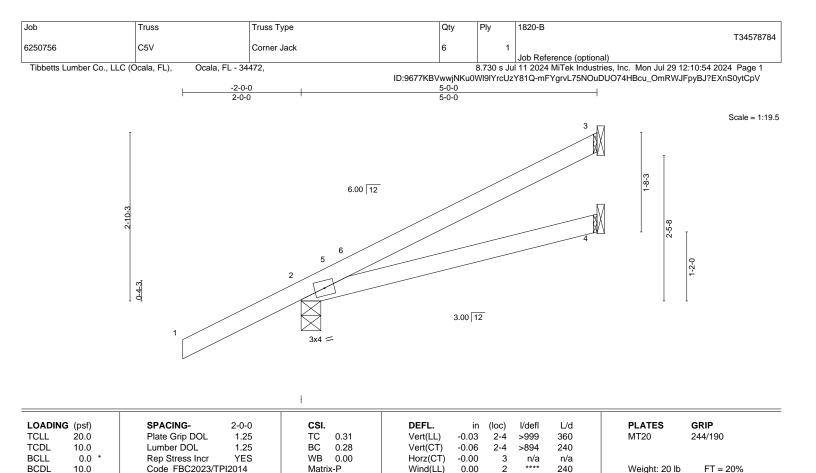
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024









BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2

TOP CHORD 2x4 SP No.2 BOT CHORD

> 3=Mechanical, 2=0-4-0, 4=Mechanical (size)

Max Horz 2=95(LC 12)

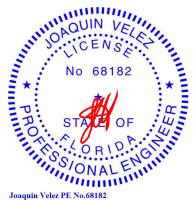
Max Uplift 3=-36(LC 12), 2=-70(LC 12)

Max Grav 3=114(LC 1), 2=350(LC 1), 4=95(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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024

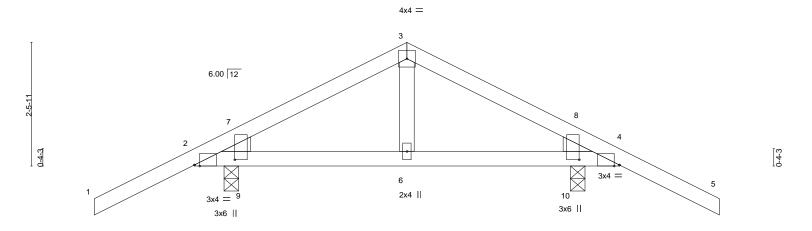


🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty 1820-B T34578785 6250756 E01 Common 2 | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:54 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-mFYgrvL75NOuDUO74HBcu_OkkWEPpyUJ?EXnS0ytCpV 10-6-0 2-0-0 4-3-0 4-3-0 2-0-0

Scale = 1:23.0



		0-7-2		4-3-0 3-7-14				7-9-12 3-6-12		+	8-6-0 0-8-4	
Plate Offs	sets (X,Y)	[2:0-1-4,Edge], [2:0-1-4,0	-9-11], [4:0-1-4	1,Edge], [4:0-	1-4,0-9-11]							
LOADING TCLL	3 (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.42	DEFL. Vert(LL)	in -0.01	(loc) 2-6	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.25 1.25 YES	BC WB	0.42 0.59 0.05	Vert(CT) Horz(CT)	-0.01 -0.02 0.00	2-6 4	>999 n/a	240 n/a	WITZO	244/190
BCDL	10.0	Code FBC2023/TI		Matri		Wind(LL)	0.01	2-6	>999	240	Weight: 38	3 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=51(LC 11)

Max Uplift 2=-145(LC 12), 4=-145(LC 12) Max Grav 2=457(LC 1), 4=457(LC 1)

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

TOP CHORD 2-3=-371/199, 3-4=-371/199 **BOT CHORD** 2-6=-40/264, 4-6=-40/264

- 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 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=145, 4=145.



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

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

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July 30,2024

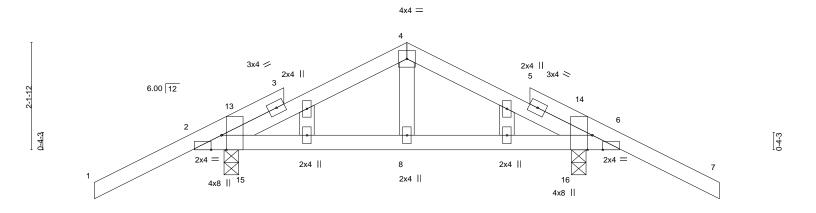


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply 1820-B T34578786 6250756 E01X **GABLE** Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:55 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-ER622FMlshWlrezKe?irRBwwcwaSYPjTDuGL_TytCpU 6₇8₇9 0-1-9 10-6-0 6-6-15 8-6-0 2-0-0 1-9-7 2-3-15 2-3-15 1-9-7 2-0-0

Scale = 1:23.0



		-11-1 4-3-0)-1-9 2-3-15	6-6-15 2-3-15		7-10-0 8-6-0 1-1-7 0-8-0	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [2:0-2-8,Edge], [6:0-3-8,	Edge], [6:0-2-8,Edge]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.35 BC 0.60 WB 0.05 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.00 Wind(LL) 0.01	(loc) I/defl 2-8 >999 2-8 >999 6 n/a 2-8 >999	L/d PLATE 360 MT20 240 n/a 240 Weight	244/190

BRACING-

TOP CHORD

BOT CHORD

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

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

LUMBER-

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

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

Max Horz 2=46(LC 11)

Max Uplift 2=-145(LC 12), 6=-145(LC 12) Max Grav 2=457(LC 1), 6=457(LC 1)

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

2-4=-393/212, 4-6=-393/212 TOP CHORD BOT CHORD 2-8=-73/308, 6-8=-73/308

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 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=145. 6=145.



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July 30,2024



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



Job Truss Truss Type Qty 1820-B T34578787 6250756 E02 Common 3 | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:55 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-ER622FMlshWlrezKe?irRBwuywZlYPjTDuGL_TytCpU 10-6-0 4-3-0 2-0-0 4-3-0 2-0-0

Scale = 1:23.0

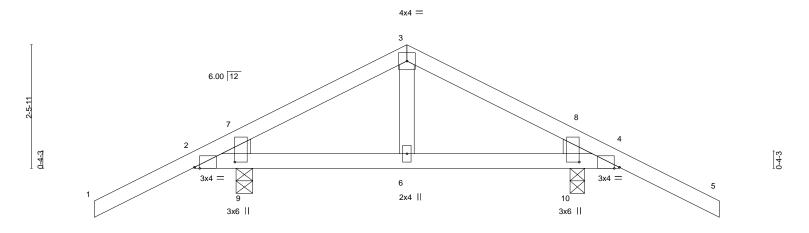


Plate Offsets (X,Y)	- [2:0-1-4,Edge], [2:0-1-4,0-9-11], [4:0-	3-5-0 I-4,Edge], [4:0-1-4,0-9-11]	3-0-11 0-6-5
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.01 4-6 >999 360 MT20 244/190
TCLL 20.0	Plate Grip DOL 1.25	TC 0.46	
TCDL 10.0	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.65	Vert(CT) -0.02 4-6 >999 240
BCLL 0.0 *		WB 0.05	Horz(CT) 0.00 4 n/a n/a
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.01 4-6 >999 240 Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=51(LC 11)

Max Uplift 2=-146(LC 12), 4=-145(LC 12) Max Grav 2=458(LC 1), 4=456(LC 1)

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

0-10-0

TOP CHORD 2-3=-370/198, 3-4=-369/198 **BOT CHORD** 2-6=-38/262, 4-6=-38/262

- 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 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 4=145.



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

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

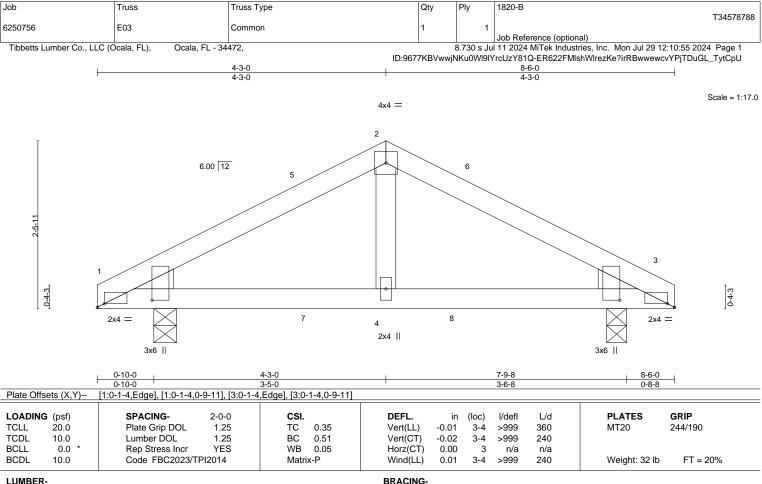
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July 30,2024



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





TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. (size) 1=0-4-0, 3=0-3-8

Max Horz 1=36(LC 11)

Max Uplift 1=-85(LC 12), 3=-85(LC 12) Max Grav 1=328(LC 1), 3=328(LC 1)

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

TOP CHORD 1-2=-414/296, 2-3=-414/280 **BOT CHORD** 1-4=-172/326, 3-4=-172/326

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



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

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

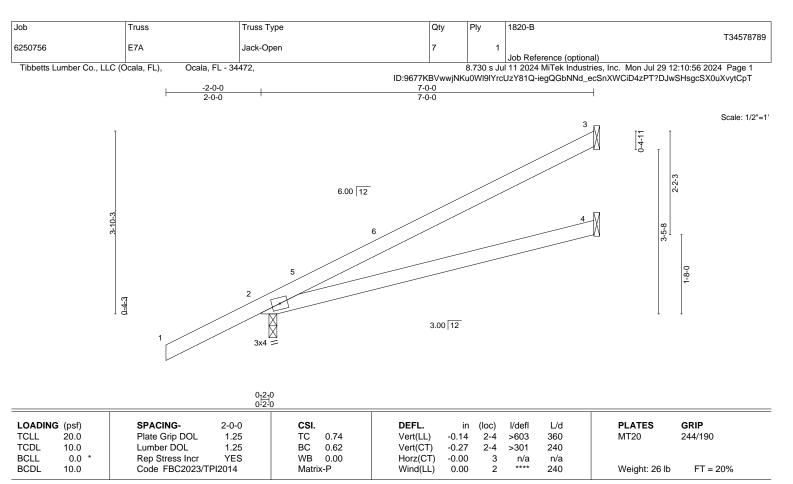
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July 30,2024



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=118(LC 12)

Max Uplift 3=-64(LC 12), 2=-60(LC 12)

Max Grav 3=187(LC 1), 4=137(LC 3), 2=418(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 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) 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 at joint(s) 2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

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

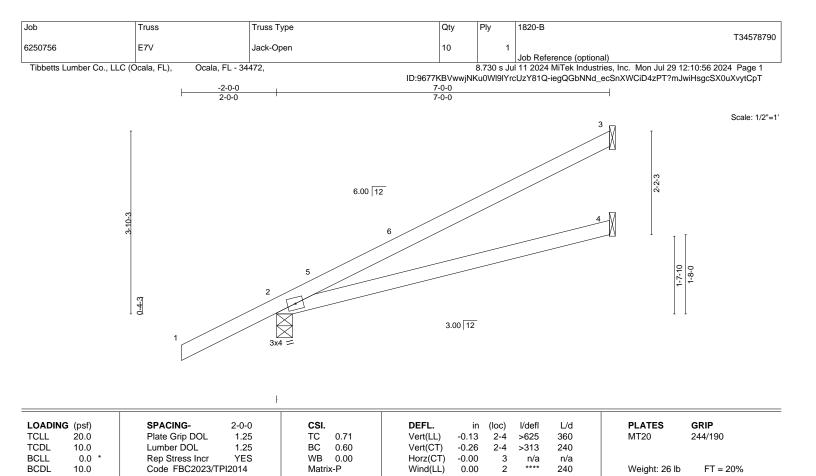
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024



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





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD

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

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

Max Horz 2=118(LC 12)

Max Uplift 3=-63(LC 12), 2=-63(LC 12)

Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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July 30,2024







Job Truss Truss Type Qty Ply 1820-B T34578791 6250756 G01 Common 2 | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:57 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-AqEpTxN?OImT4x6ilQkJWc0EbjHM0lRmhBlR3LytCpS 20-0-0 -2-0-0 2-0-0 16-0-15 22-0-0 3-11-1 6-0-15 6-0-15 3-11-1 2-0-0

Scale = 1:38.5

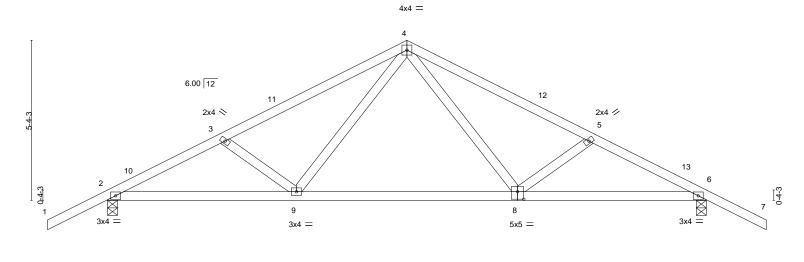


Plate Offsets (X,Y) [8:0-2-8,0-3-0]												
LOADING TCLL TCDL		SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.51 0.51	DEFL. Vert(LL) Vert(CT)	in -0.06 -0.16	(loc) 8-9 8-9	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2023/TI	YES	WB Matri	0.10	Horz(CT) Wind(LL)	0.03	6 8-9	n/a >999	n/a 240	Weight: 97 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

> (size) 2=0-4-0, 6=0-4-0 Max Horz 2=-99(LC 10)

Max Uplift 2=-95(LC 12), 6=-95(LC 12) Max Grav 2=917(LC 1), 6=917(LC 1)

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

2-3=-1394/180, 3-4=-1175/140, 4-5=-1175/140, 5-6=-1394/180 TOP CHORD

BOT CHORD 2-9=-88/1191, 8-9=0/752, 6-8=-109/1191

WFBS 4-8=-2/422, 5-8=-293/149, 4-9=-2/422, 3-9=-293/149

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 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



Structural wood sheathing directly applied or 4-7-4 oc purlins.

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

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024



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



Job Truss Truss Type Qty Ply 1820-B T34578792 6250756 G01X Common Supported Gable | Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:58 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-e0nBhGOd9cuKi5hvJ7FY3qYSG7j_lmQvwrV?boytCpR 18₇2-9 20-0-0 0-1-9 1-9-7 10-0-0 18-0-15 22-0-0 0-1-9 2-0-0 1-9-7 8-0-15 8-0-15 2-0-0

Scale = 1:38.5

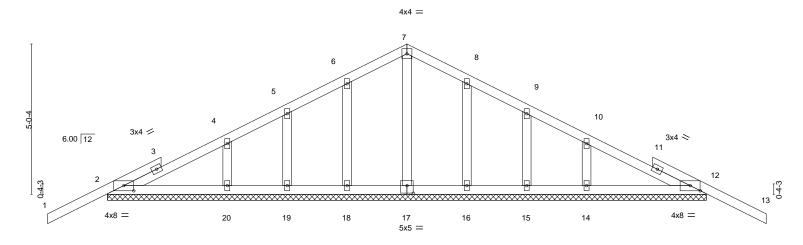


Plate Offsets (X,Y)--[2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [17:0-2-8,0-3-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.26 Vert(LL) -0.01 120 244/190 13 n/r MT20 TCDL 10.0 Lumber DOL 1.25 ВС 0.10 Vert(CT) -0.0213 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 12 n/a n/a Code FBC2023/TPI2014 FT = 20% **BCDL** 10.0 Weight: 103 lb Matrix-S

20-0-0

LUMBER-

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

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

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

REACTIONS. All bearings 20-0-0.

Max Horz 2=93(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 16, 15 except 2=285(LC 23), 12=285(LC 24),

20=258(LC 23), 14=258(LC 24)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 16, 15.



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

July 30,2024

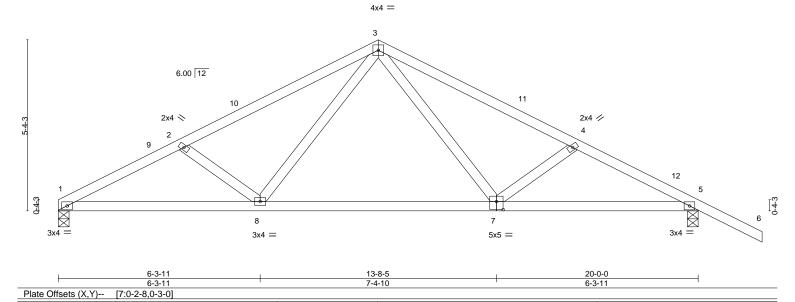


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply 1820-B T34578793 6250756 G02 COMMON 6 Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Jul 29 12:10:58 2024 Page 1 Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-e0nBhGOd9cuKi5hvJ7FY3qYOJ7cOllevwrV?boytCpR 16-0-15 20-0-0 22-0-0 3-11-1 6-0-15 6-0-15 3-11-1 2-0-0

Scale = 1:36.0



LOADING (psf) SPACING-

1.25 TCLL 20.0 Plate Grip DOL TC 0.51 TCDL 10.0 Lumber DOL 1.25 ВС 0.53 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Code FBC2023/TPI2014 **BCDL** 10.0 Matrix-S

2-0-0

CSI.

DEFL. in (loc) I/defI L/d Vert(LL) -0.06 7-8 >999 360 Vert(CT) -0.15 7-8 >999 240 Horz(CT) 0.03 5 n/a n/a Wind(LL) 240 0.03 7-8 >999

MT20 244/190

GRIP

PLATES

Weight: 94 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-6-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-0, 5=0-4-0

Max Horz 1=-95(LC 10)

Max Uplift 1=-30(LC 12), 5=-99(LC 12) Max Grav 1=780(LC 1), 5=924(LC 1)

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

1-2=-1440/226, 2-3=-1217/181, 3-4=-1189/161, 4-5=-1409/202 TOP CHORD

BOT CHORD 1-8=-144/1255, 7-8=-10/766, 5-7=-129/1204 WFBS 3-7=-0/421, 4-7=-293/150, 3-8=-14/435, 2-8=-326/161

NOTES-

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



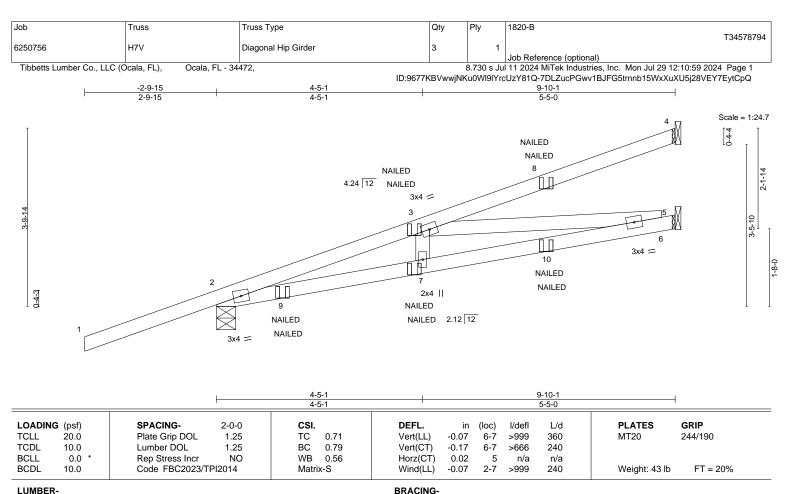
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 30,2024



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TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-15, 5=Mechanical

Max Horz 2=118(LC 8)

Max Uplift 4=-54(LC 8), 2=-186(LC 8)

Max Grav 4=168(LC 1), 2=628(LC 31), 5=273(LC 3)

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

TOP CHORD 2-3=-1292/72

BOT CHORD 2-7=-118/1186, 6-7=-123/1184

WEBS 3-6=-1159/113

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 8=-58(F=-29, B=-29) 9=100(F=50, B=50) 10=-39(F=-19, B=-19)



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

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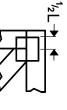


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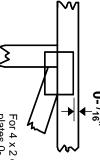


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

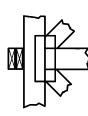
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

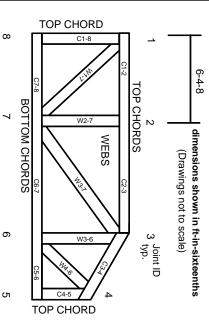
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.