

RE: 4800784 - FORT WHITE STATION

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Customer Info: DWC CONTRACTING Project Name: Spec House Model: Custom314.434.1200

Lot/Block: 23 Subdivision: Fort White Station

Lot/Block: 23 Address: TBD, TBD

City: Fort White, 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 8.8

Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 27 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	T38163557	CJ01	8/11/25	15	T38163571	T07	8/11/25
2	T38163558	CJ03	8/11/25	16	T38163572	T08	8/11/25
3	T38163559	CJ05	8/11/25	17	T38163573	T09	8/11/25
4	T38163560	EJ01	8/11/25	18	T38163574	T10	8/11/25
5	T38163561	EJ02	8/11/25	19	T38163575	<u>T</u> 11	8/11/25
6	T38163562	HJ05	8/11/25	20	T38163576	<u>T12</u>	8/11/25
7	T38163563	HJ10	8/11/25	21	T38163577	<u>T</u> 13	8/11/25
8	T38163564	HJ10A	8/11/25	22	T38163578	<u>T14</u>	8/11/25
9	T38163565	<u>T01</u>	8/11/25	23	T38163579	<u>T</u> 15	8/11/25
10	T38163566	T02	8/11/25	24	T38163580	<u>T16</u>	8/11/25
11	T38163567	<u>T</u> 03	8/11/25	25	T38163581	<u>T17</u>	8/11/25
12	T38163568	<u>T04</u>	8/11/25	26	T38163582	<u>T</u> 18	8/11/25
13	T38163569	<u>T05</u>	8/11/25	27	T38163583	T19	8/11/25
14	T38163570	T06	8/11/25				

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

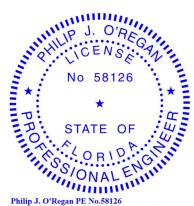
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

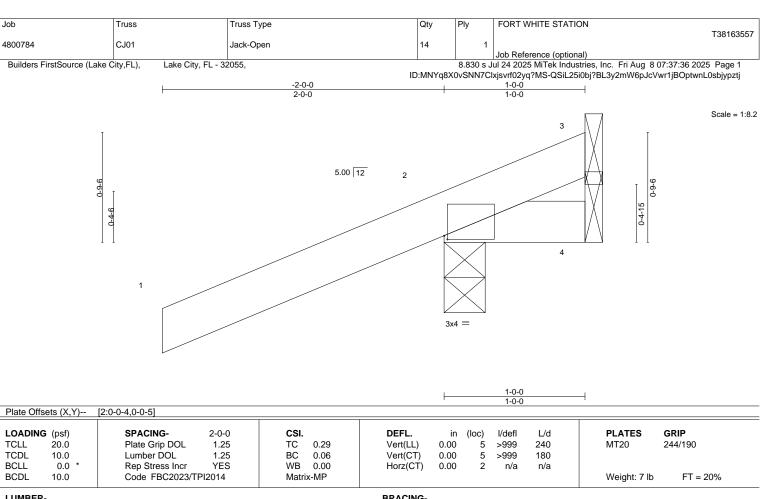
My license renewal date for the state of Florida is February 28, 2027.

**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.



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=45(LC 8)

Max Uplift 3=-30(LC 1), 2=-155(LC 8), 4=-52(LC 1) Max Grav 3=23(LC 8), 2=281(LC 1), 4=35(LC 8)

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=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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 30 lb uplift at joint 3, 155 lb uplift at joint 2 and 52 lb uplift at joint 4.

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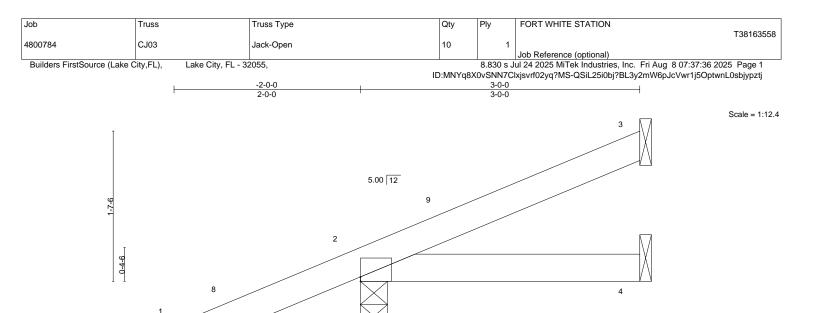
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August 11,2025









3-0-0
3-0-0

Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

Plate Off	sets (X,Y)	[2:Edge,0-0-9]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=75(LC 12) Max Uplift 3=-33(LC 12), 2=-129(LC 8), 4=-16(LC 9)

Max Grav 3=57(LC 1), 2=278(LC 1), 4=47(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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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 33 lb uplift at joint 3, 129 lb uplift at joint 2 and 16 lb uplift at joint 4.

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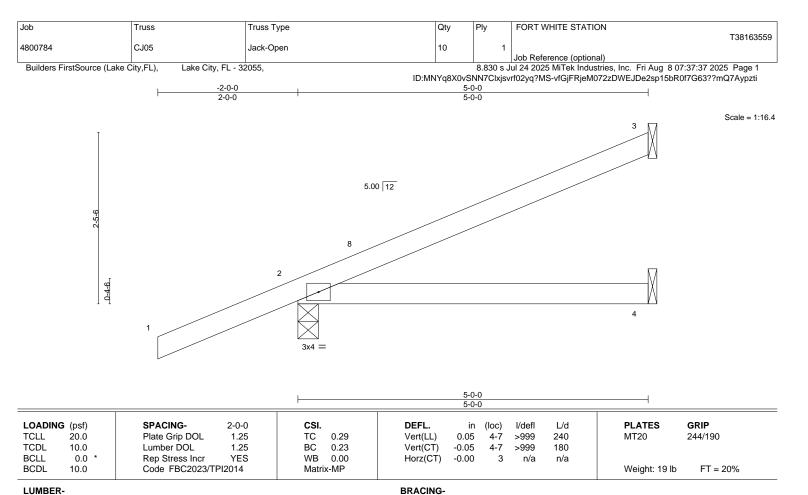
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M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=107(LC 12)

Max Uplift 3=-68(LC 12), 2=-146(LC 8), 4=-32(LC 9) Max Grav 3=119(LC 1), 2=342(LC 1), 4=87(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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 3, 146 lb uplift at joint 2 and 32 lb uplift at joint 4.

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

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

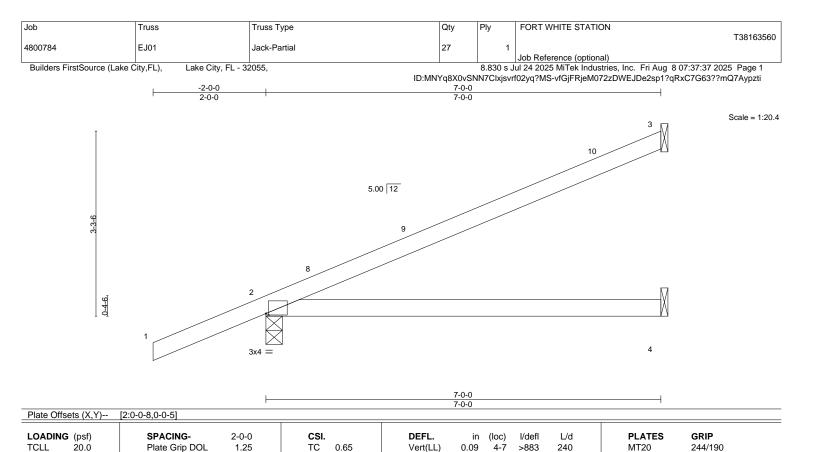
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LUMBER-

TCDL

**BCLL** 

**BCDL** 

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

10.0

10.0

0.0

**BRACING-**

Vert(CT)

Horz(CT)

-0.22

0.01

4-7

>380

n/a

180

n/a

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.

Weight: 25 lb

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=135(LC 12)

Max Uplift 3=-89(LC 12), 2=-119(LC 12)

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

Max Grav 3=177(LC 1), 2=415(LC 1), 4=126(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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-MS

0.52

0.00

- 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.

1.25

YES

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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 89 lb uplift at joint 3 and 119 lb uplift at joint 2.

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FT = 20%

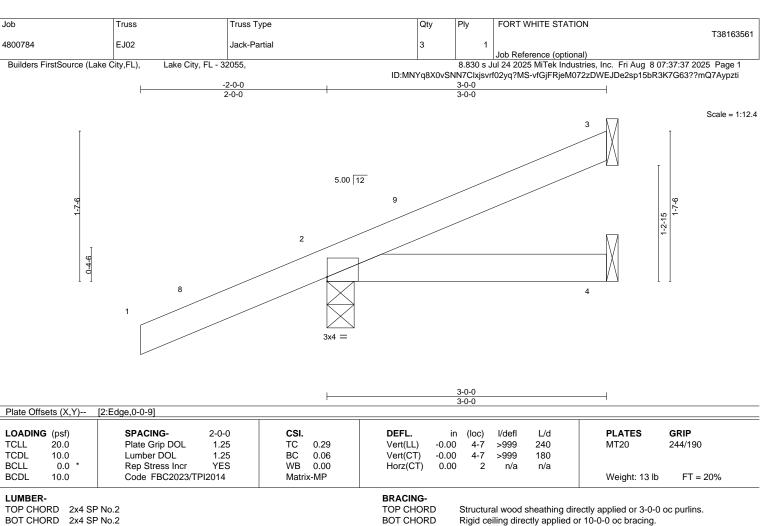
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(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=75(LC 12) Max Uplift 3=-33(LC 12), 2=-129(LC 8), 4=-16(LC 9) Max Grav 3=56(LC 1), 2=278(LC 1), 4=47(LC 3)

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

### NOTES-

REACTIONS.

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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 33 lb uplift at joint 3, 129 lb uplift at joint 2 and 16 lb uplift at joint 4.

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Job Truss Truss Type Qty FORT WHITE STATION T38163562 4800784 **HJ05** Diagonal Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:38 2025 Page 1 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-Nrp5TnkG7KFvaN5Rtw9HO1aBCqlMsjMCEfVzgcypzth 2-9-15 4-2-3 Scale = 1:13.7 0-4-1 NAILED 3.54 12 NAILED 8 9 NAILED NAILED Plate Offsets (X,Y)--[2:Edge,0-0-11] GRIP LOADING (psf) SPACING-2-0-0 CSI. in (loc) I/defI L/d **PLATES** 1.25 TCLL 20.0 Plate Grip DOL TC 0.61 Vert(LL) -0.05 4-7 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.25 ВС 0.46 Vert(CT) 0.05 4-7 >919 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 n/a n/a Code FBC2023/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 17 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=90(LC 25)

Max Uplift 3=-26(LC 8), 2=-175(LC 4), 4=-42(LC 21) Max Grav 3=64(LC 38), 2=295(LC 1), 4=54(LC 33)

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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3, 175 lb uplift at joint 2 and 42 lb uplift at joint 4.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-20

Concentrated Loads (lb)

Vert: 8=72(F=36, B=36) 9=82(F=41, B=41)

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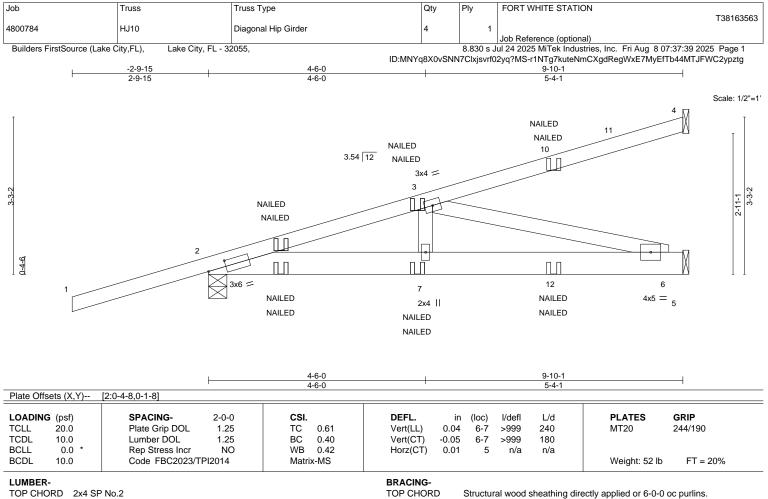
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**BOT CHORD** 

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

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

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=150(LC 4)

Max Uplift 4=-82(LC 4), 2=-251(LC 4), 5=-137(LC 8) Max Grav 4=161(LC 1), 2=482(LC 1), 5=283(LC 3)

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

TOP CHORD 2-3=-778/381

**BOT CHORD** 2-7=-420/734, 6-7=-420/734

WFBS 3-6=-758/434

### NOTES-

WEBS

REACTIONS.

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4, 251 lb uplift at joint 2 and 137 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=4(F=2, B=2) 8=72(F=36, B=36) 9=82(F=41, B=41) 10=-68(F=-34, B=-34) 12=-52(F=-26, B=-26)

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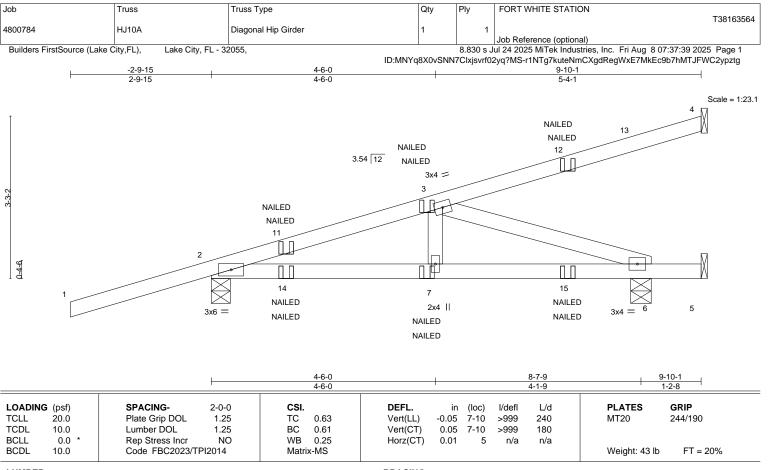
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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





LUMBER-

**BRACING-**

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

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.

**WEBS** 2x4 SP No.3

REACTIONS. All bearings Mechanical except (jt=length) 2=0-4-9, 6=0-4-15.

Max Uplift All uplift 100 lb or less at joint(s) 4 except 2=-237(LC 4), 5=-111(LC 3), 6=-228(LC 8) Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=446(LC 38), 6=433(LC 3)

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

TOP CHORD 2-3=-601/292

**BOT CHORD** 2-7=-323/552, 6-7=-323/552

**WEBS** 3-6=-580/340

### NOTES-

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- 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.
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- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=237, 5=111, 6=228.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=4(F=2, B=2) 11=72(F=36, B=36) 12=-68(F=-34, B=-34) 14=82(F=41, B=41) 15=-52(F=-26, B=-26)

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

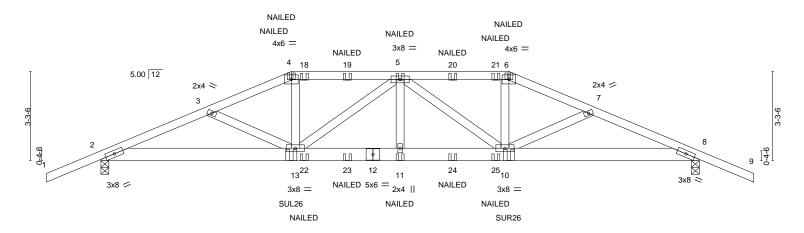


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty FORT WHITE STATION T38163565 4800784 T01 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:40 2025 Page 1 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-JExruTlWexVdqhFp?LBITSfYZew?KYKVhz\_4kVypztf 24-0-0 15-0-0 17-11-1 2-0-0 4-0-15 2-11-1 4-0-0 4-0-0 2-11-1 4-0-15 2-0-0

Scale = 1:42.4



<b>⊢</b>	7-0-0 7-0-0	11-0-0 4-0-0	15-0-0 4-0-0	+ 22-0-0 7-0-0	$\dashv$
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 0.56 BC 0.77 WB 0.35 Matrix-MS	DEFL.         in (loc)           Vert(LL)         -0.15         11           Vert(CT)         -0.31         11           Horz(CT)         0.08         8	/def  L/d	<b>GRIP</b> 244/190 FT = 20%

BOT CHORD

LUMBERTOP CHORD 2x4 SP No 2
TOP CHORD

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

(size) 2=0-3-8, 8=0-3-8

Max Horz 2=63(LC 12) Max Uplift 2=-586(LC 8), 8=-586(LC 9) Max Grav 2=1769(LC 1), 8=1769(LC 1)

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

TOP CHORD 2-3=-3772/1251, 3-4=-3571/1184, 4-5=-3321/1127, 5-6=-3321/1127, 6-7=-3571/1184,

7-8=-3772/1251

BOT CHORD 2-13=-1144/3448, 11-13=-1177/3826, 10-11=-1177/3826, 8-10=-1081/3448 WEBS 4-13=-235/931, 5-13=-684/217, 5-11=0/292, 5-10=-684/216, 6-10=-235/931

### NOTES-

REACTIONS.

- 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=586, 8=586.
- 8) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 9) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 15-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

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Structural wood sheathing directly applied or 2-9-7 oc purlins.

Rigid ceiling directly applied or 6-10-0 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

### Continued on page 2





Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
					T38163565
4800784	T01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:40 2025 Page 2 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-JExruTlWexVdqhFp?LBITSfYZew?KYKVhz\_4kVypztf

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-76(F) 6=-76(F) 13=-242(F) 11=-63(F) 5=-117(F) 10=-242(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-63(F) 23=-63(F) 24=-63(F) 25=-63(F)

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August 11,2025





Job Truss Truss Type Qty FORT WHITE STATION T38163566 4800784 T02 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:41 2025 Page 1 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-nQVE5om8PFdURrq0Y3i\_0fCkf2Fb32PfwdkdGxypzte 22-0-0 24-0-0

4-0-0

4-1-15

4-10-1

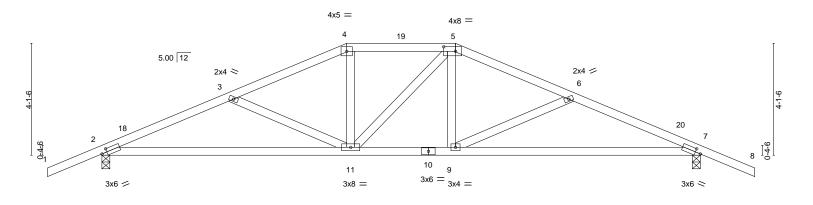
Structural wood sheathing directly applied or 4-4-1 oc purlins.

Rigid ceiling directly applied or 9-4-6 oc bracing.

4-1-15

Scale = 1:42.4

2-0-0



<u> </u>	9-0-0		13-0-0	22-0-0	
	9-0-0	I	4-0-0	9-0-0	
Plate Offsets (X,Y)	[2:0-2-6,0-1-8], [5:0-5-4,0-2-0], [7:0-2-6,0	)-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	Vert(LL)	-0.16 9-17 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.74	Vert(CT)	-0.33 9-17 >792 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT)	0.05 7 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	'		Weight: 106 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2-0-0

4-10-1

WEBS 2x4 SP No.3

> Max Horz 2=77(LC 12) Max Uplift 2=-266(LC 12), 7=-266(LC 13) Max Grav 2=1000(LC 1), 7=1000(LC 1)

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

(size) 2=0-3-8, 7=0-3-8

TOP CHORD 2-3=-1715/427, 3-4=-1377/306, 4-5=-1230/309, 5-6=-1376/306, 6-7=-1715/427

**BOT CHORD** 2-11=-392/1557, 9-11=-169/1229, 7-9=-316/1557

3-11=-373/196, 4-11=-41/329, 5-9=-43/329, 6-9=-373/196 WFBS

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone3 9-0-0 to 13-0-0, Zone2 13-0-0 to 17-4-3, Zone1 17-4-3 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 7=266.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

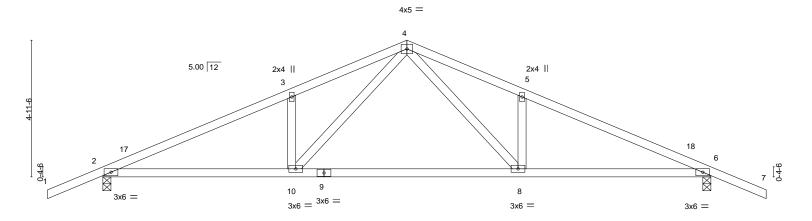


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty FORT WHITE STATION T38163567 4800784 T03 Common 3 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:41 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-nQVE5om8PFdURrq0Y3i\_0fCix2H03\_nfwdkdGxypzte . 15-2-0 2-0-0 6-10-0 4-2-0 4-2-0 6-10-0 2-0-0

Scale = 1:41.7



	6-10-0 6-10-0		5-2-0 3-4-0	1	22-0-0 6-10-0	
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 0.52 BC 0.59 WB 0.41 Matrix-MS	DEFL.         in (lower (LL))         (lower (LL))		PLATES MT20 Weight: 100 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No 2

TOP CHORD **BOT CHORD** 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-90(LC 13)

Max Uplift 2=-339(LC 12), 6=-339(LC 13) Max Grav 2=1250(LC 1), 6=1250(LC 1)

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

TOP CHORD 2-3=-2385/575, 3-4=-2364/669, 4-5=-2364/669, 5-6=-2385/576

**BOT CHORD** 2-10=-524/2131, 8-10=-290/1429, 6-8=-434/2131

WEBS 4-8=-351/1064, 5-8=-324/209, 4-10=-351/1064, 3-10=-324/208

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-0, Zone1 15-2-0 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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Structural wood sheathing directly applied or 3-4-13 oc purlins.

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

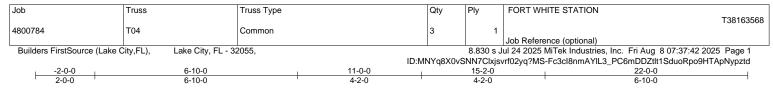
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

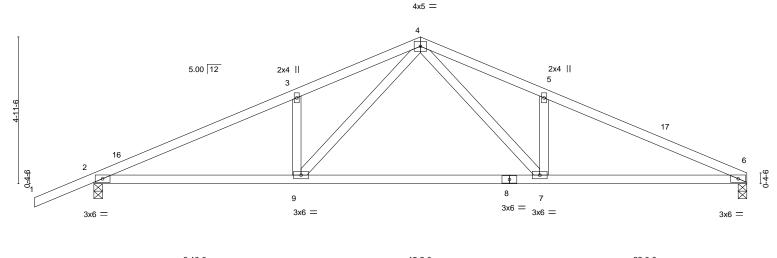


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





Scale = 1:38.8



	6-10-0	15-2-0	22-0-0
	6-10-0	8-4-0	6-10-0
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.         DEFL.         in (loc)           TC 0.56         Vert(LL) -0.23 7-9           BC 0.61         Vert(CT) -0.53 7-9           WB 0.42         Horz(CT) 0.04 6	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No 2

TOP CHORD **BOT CHORD** 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=104(LC 16)

Max Uplift 6=-287(LC 13), 2=-340(LC 12) Max Grav 6=1125(LC 1), 2=1255(LC 1)

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

TOP CHORD  $2\hbox{-}3\hbox{-}2397/605,\ 3\hbox{-}4\hbox{-}-2376/679,\ 4\hbox{-}5\hbox{-}-2408/692,\ 5\hbox{-}6\hbox{-}-2424/622$ 

2-9=-540/2142, 7-9=-306/1443, 6-7=-505/2170 BOT CHORD

WEBS 4-7=-370/1102, 5-7=-338/215, 4-9=-350/1063, 3-9=-325/209

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-0, Zone1 15-2-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=287, 2=340.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-6=-60, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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Structural wood sheathing directly applied or 3-3-4 oc purlins.

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



M 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 FORT WHITE STATION T38163569 4800784 T05 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL) Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:43 2025 Page 1 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-jod\_WUoPxsuBh8\_OgUkS54HyxrvqXmiyOxDkLpypztc 24-6-4 27-4-Ó 15-8-13 21-5-15

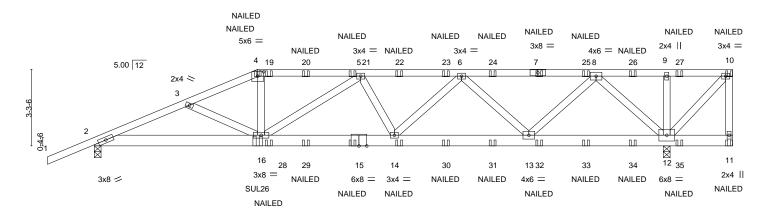
4-3-14

5-9-2

3-0-5

Scale = 1:49.3

2-9-13



<u> </u>	7-0-0 7-0-0	12-10-4 5-10-4	18-7-6 5-9-2	24-6-4 5-10-14	24 <sub>1</sub> 8-0 2 0-1-12 2	7-4-0 2-8-1
Plate Offsets (X,Y)	[4:0-3-0,0-2-4]					
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 0.93 BC 0.89 WB 0.95 Matrix-MS	DEFL.         in (loc)         l/defl           Vert(LL)         -0.18 14-16         >999           Vert(CT)         -0.37 14-16         >797           Horz(CT)         0.09         12         n/a	L/d 240 180 n/a	PLATES MT20 Weight: 164 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER- BRACING-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-10-4 oc purlins,

BOT CHORD 2x6 SP No.2 except end verticals.

WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

2-0-0

4-0-15

2-11-1

4-4-15

Max Horz 2=141(LC 8)

Max Uplift 2=-605(LC 8), 12=-810(LC 5) Max Grav 2=1915(LC 1), 12=2710(LC 1)

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

TOP CHORD 2-3=-4154/1297, 3-4=-3969/1234, 4-5=-3697/1175, 5-6=-4329/1250, 6-8=-2964/810 BOT CHORD 2-16=-1265/3797, 14-16=-1330/4363, 13-14=-1183/3955, 12-13=-526/1698 WEBS 4-16=-235/1038, 5-16=-855/224, 6-14=-120/559, 6-13=-1407/538, 8-13=-413/1798,

8-12=-2677/840, 9-12=-288/139, 10-12=-347/151

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=605, 12=810.
- 8) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg. to the left, sloping 0.0 deg. down.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

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

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
1000704	To.	 			T38163569
4800784	T05	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:43 2025 Page 2 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-jod\_WUoPxsuBh8\_OgUkS54HyxrvqXmiyOxDkLpypztc

### LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-76(F) 7=-117(F) 10=-139(F) 11=-71(F) 15=-63(F) 16=-242(F) 14=-63(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-117(F) 28=-63(F) 30=-63(F) 31=-63(F) 32=-63(F) 33=-63(F) 34=-63(F) 35=-63(F) 35=-63(F)

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

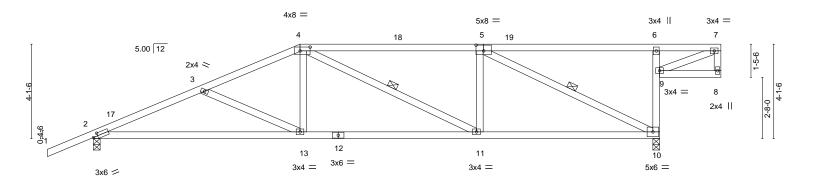
August 11,2025





Job Truss Truss Type Qty Ply FORT WHITE STATION T38163570 4800784 T06 Half Hip Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:43 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-jod\_WUoPxsuBh8\_OgUkS54H\_WrwaXr?yOxDkLpypztc 27-4-0 -2-0-0 2-0-0 4-10-1 4-1-15 7-10-0 7-10-0 2-8-1

Scale = 1:50.2



	9-0-0	16-10-0	24-8-0	
	9-0-0	7-10-0	7-10-0	
Plate Offsets (X,Y)	[2:0-2-6,0-1-8], [4:0-5-4,0-2-0], [5:0-4-0,0-	3-0]		
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d P	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.77 Vert(LL)	-0.14 13-16 >999 240 N	/IT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.77 Vert(CT)	-0.31 13-16 >953 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62 Horz(CT)	0.06 10 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	V	Veight: 138 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

WEBS 2x4 SP No.3

> (size) 10=0-3-8, 2=0-3-8 Max Horz 2=173(LC 12)

Max Uplift 10=-402(LC 9), 2=-322(LC 12) Max Grav 10=1201(LC 1), 2=1094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1945/559, 3-4=-1638/455, 4-5=-1398/401, 9-10=-426/219, 6-9=-344/180

BOT CHORD 2-13=-610/1765, 11-13=-452/1480, 10-11=-404/1389 **WEBS** 3-13=-324/173, 4-13=-20/409, 5-11=0/369, 5-10=-1558/449

- 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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 27-2-4 zone; cantilever 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=402, 2=322.

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

4-11, 5-10

Rigid ceiling directly applied or 7-6-12 oc bracing.

except end verticals. Except:

6-0-0 oc bracing: 9-10

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



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 FORT WHITE STATION T38163571 4800784 T07 Hip Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:44 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-B?BMjqo1iA02lIZbEBGhelqERFKxGLH5cayHtGypztb 24-8-0 27-4-0 17-1-12

6-1-12

5-10-4

1-8-0

Structural wood sheathing directly applied or 3-11-8 oc purlins,

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

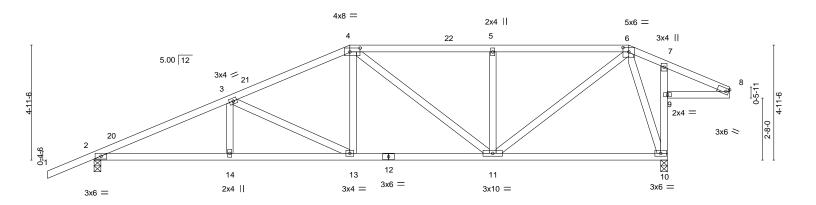
except end verticals. Except:

6-0-0 oc bracing: 9-10

2-8-1

5-2-0

Scale = 1:49.6



	-	5-10-0		5-2-0	-	6-1-12	+		7-6-4		
Plate Offse	ts (X,Y)	[4:0-5-4,0-2-0], [6:0-3-0,0	-2-4]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (le	oc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0	.50	Vert(LL)	-0.09 10-	11 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0	.57	Vert(CT)	-0.20 10-	11 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0	.42	Horz(CT)	0.05	10 n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matrix-N	//S					Weight: 145 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2

2-0-0

5-10-0

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=161(LC 12)

Max Uplift 2=-318(LC 12), 10=-345(LC 9) Max Grav 2=1097(LC 25), 10=1214(LC 1)

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

TOP CHORD 2-3=-1967/522, 3-4=-1433/404, 4-5=-1115/338, 5-6=-1115/338, 9-10=-318/194,

7-9=-269/151

BOT CHORD 2-14=-558/1763, 13-14=-558/1763, 11-13=-362/1273, 10-11=-69/260

WEBS 3-13=-553/219, 4-13=-62/389, 5-11=-418/209, 6-11=-280/1103, 6-10=-875/265

- 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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 23-0-0, Zone3 23-0-0 to 27-4-0 zone; cantilever 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 10=345.

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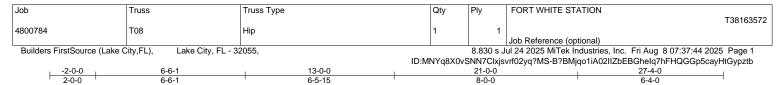
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

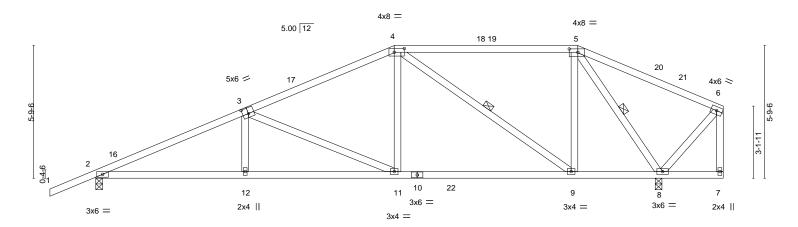


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





Scale = 1:50.2



L	6-6-1	13-0-0	21-0-0	24-6-4 24 <sub>1</sub> 8-0 27-4-0
	6-6-1	6-5-15	8-0-0	3-6-4 0-1-12 2-8-1
Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [5:0-4-8	,0-1-12]		
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 0.93 BC 0.74 WB 0.71 Matrix-MS	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.12         9-11         >999         240           Vert(CT)         -0.23         9-11         >999         180           Horz(CT)         0.06         8         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 149 lb FT = 20%

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=180(LC 12)

Max Uplift 2=-314(LC 12), 8=-305(LC 9) Max Grav 2=1153(LC 2), 8=1292(LC 2)

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

2-3=-2089/504, 3-4=-1381/343, 4-5=-624/189 TOP CHORD

**BOT CHORD**  $2-12=-555/1882,\ 11-12=-556/1875,\ 9-11=-300/1231,\ 8-9=-122/607$ 

3-12=0/257, 3-11=-718/280, 4-11=-65/579, 4-9=-755/227, 5-9=-90/665, 5-8=-1279/273 WFBS

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone 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 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 27-2-4 zone; cantilever 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 8=305.

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Structural wood sheathing directly applied, except end verticals.

4-9, 5-8

Rigid ceiling directly applied or 7-10-10 oc bracing.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

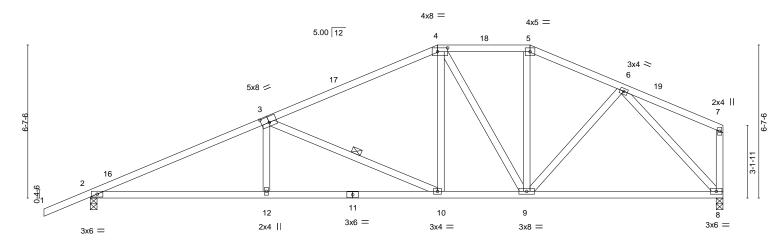


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Scale = 1:49.8



<u> </u>	7-7-5 7-7-5		-	15-0-0 7-4-11		-	19-0-0 4-0-0			27-4-0 8-4-0	———
Plate Offsets (X,Y)	[3:0-4-0,0-3-0], [4:0-5-4,0	-2-0]									
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/TI	2-0-0 1.25 1.25 YES PI2014	CSI. TC BC WB Matrix	0.64 0.74 0.88 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.31 0.07	(loc) 8-9 8-9 8	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 154 lb	<b>GRIP</b> 244/190

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=194(LC 12)

Max Uplift 2=-333(LC 12), 8=-233(LC 13) Max Grav 2=1212(LC 1), 8=1083(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2178/537, 3-4=-1358/345, 4-5=-1008/279, 5-6=-1140/289 TOP CHORD **BOT CHORD** 2-12=-590/1945, 10-12=-591/1942, 9-10=-287/1174, 8-9=-176/826

WFBS 3-12=0/331, 3-10=-850/334, 4-10=-103/439, 4-9=-379/160, 5-9=-65/252, 6-9=-40/330,

6-8=-1183/266

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone3 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-0-1, Zone1 23-0-1 to 27-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333, 8=233.

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

3-10

Rigid ceiling directly applied or 7-6-14 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



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 FORT WHITE STATION T38163574 4800784 T10 Common 3 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:45 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-gBkkxApfTT8vwS8nnvnwAVNRdfcK?kVErEirPiypzta

5-6-12

17-0-0

5-3-5

5-5-2

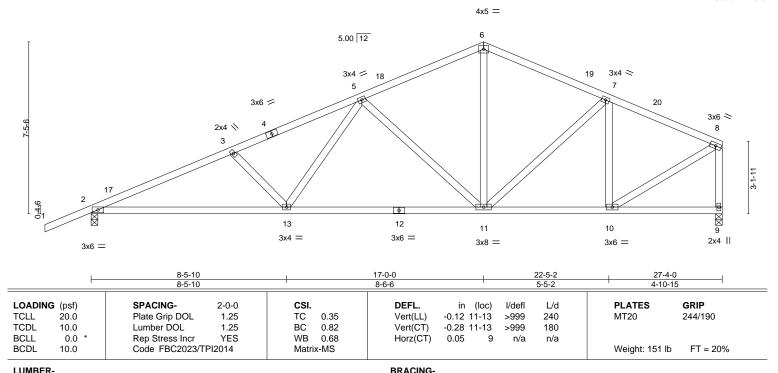
Structural wood sheathing directly applied or 3-7-7 oc purlins,

Rigid ceiling directly applied or 7-5-2 oc bracing.

except end verticals.

Scale = 1:49.9

4-10-15



TOP CHORD

BOT CHORD

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

2-0-0

6-1-15

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=208(LC 12)

Max Uplift 2=-330(LC 12), 9=-230(LC 13) Max Grav 2=1212(LC 1), 9=1083(LC 1)

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

TOP CHORD  $2\text{-}3\text{=-}2214/554,\ 3\text{-}5\text{=-}1967/501,\ 5\text{-}6\text{=-}1137/301,\ 6\text{-}7\text{=-}1138/316,\ 7\text{-}8\text{=-}1030/235,}$ 

8-9=-1036/256

BOT CHORD 2-13=-631/1991, 11-13=-428/1473, 10-11=-183/909

WFBS 3-13=-345/203, 5-13=-117/551, 5-11=-673/292, 6-11=-127/532, 7-10=-449/139,

8-10=-210/1039

### NOTES-

REACTIONS.

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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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 27-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=330, 9=230.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



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



21-11-2 4-11-2 27-0-0 5-0-14 30-0-1 3-0-1

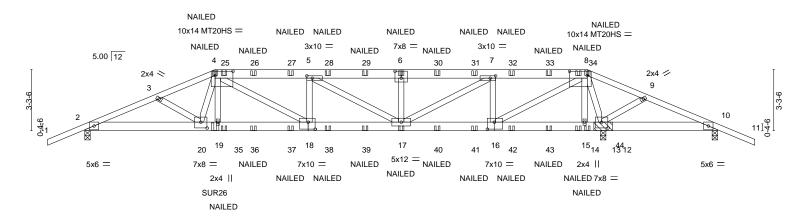
27-10-4

Structural wood sheathing directly applied or 2-7-4 oc purlins.

Rigid ceiling directly applied or 4-3-1 oc bracing.

34-0-0

Scale = 1:61.9



	1	6-2-12 0-9-4	5-0-14	4-11-2	4-11	l-2	5-0-14	0-9-4	6-1-12	1
								0-1-0		
Plate Offs	ets (X,Y)	[4:0-11-8,0-2-12], [5:0-3	-8.0-1-81. [6:0-4-	0.0-4-8]. [7:0-3-8.0-1-8].	[8:0-11-8.0-2-12].	[13:0-4-0.0-3-1	21. [16:0-4-8.	0-4-8], [18:0-4	-8.0-4-81. [20:0-4-0	).0-3-12]
		1/1	-/1/	1	1		1/1		-/	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl I	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.85	Vert(LL)	-0.22 17-18	>999 2	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.45 17-18	>741 1	80	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.08 13	n/a ı	n/a		
BCDL	10.0	Code FBC2023/	ΓPI2014	Matrix-MS					Weight: 222 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

17-0-0

LUMBER- BRACING-

12-0-14

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

4-6,6-8: 2x6 SP No.2 2x6 SP No.2

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 \*Except\*

4-18,5-17,7-17,8-16: 2x4 SP No.2

**REACTIONS.** (size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-4-12), 10=0-3-8

Max Horz 2=-61(LC 41)

Max Uplift 2=-626(LC 8), 13=-1273(LC 4), 10=-963(LC 21) Max Grav 2=1986(LC 21), 13=4022(LC 1), 10=277(LC 12)

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

TOP CHORD 2-3=-4333/1349, 3-4=-4175/1302, 4-5=-4842/1450, 5-6=-4167/1225, 6-7=-4167/1225,

7-8=-2028/620, 8-9=-792/2883, 9-10=-755/2748

BOT CHORD 2-20=-1234/3965, 19-20=-1147/3838, 18-19=-1155/3868, 17-18=-1368/4845,

16-17=-534/2072, 15-16=-1715/549, 13-15=-1704/543, 10-13=-2522/741 4-19=-158/595, 4-18=-289/1174, 5-18=-345/220, 5-17=-790/312, 6-17=-555/277,

7-17=-691/2424, 7-16=-1884/682, 8-16=-1221/4280, 8-13=-3588/1052

### NOTES-

WFBS

- 1) 2x6 SP No.2 bearing block 12" long at jt. 13 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) The Fabrication Tolerance at joint 4 = 0%, joint 8 = 0%
- 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) except (jt=lb) 2=626, 13=1273, 10=963.
- 11) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

Continued on page 2

LOAD CASE(S) Standard

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



Job	Truss	Truss Type	Qty	Ply	FORT WHITE STATION
					T38163575
4800784	T11	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:47 2025 Page 2 ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-casVMsrv?5Od9mH9vJpOGwSfGTGqTYVXIYBxUbypztY

### 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, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-76(B) 8=-79(B) 19=-242(B) 17=-63(B) 6=-117(B) 15=97(B) 25=-117(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 31=-117(B) 32=-117(B) 31=-117(B) 31

33=-117(B) 34=-117(B) 35=-63(B) 36=-63(B) 37=-63(B) 38=-63(B) 39=-63(B) 40=-63(B) 41=-63(B) 42=-63(B) 43=-63(B) 44=-63(B)

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025



🗥 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 FORT WHITE STATION T38163576 4800784 T12 Hip Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:48 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-4mQtZCrXmOWUnvsMT1Kdo8?wdsebC0uhXCwV01ypztX

19-11-8

5-11-0

25-0-0

5-0-8

29-2-8

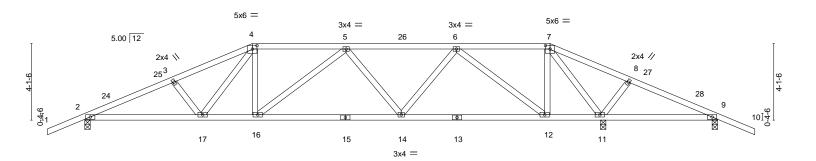
4-2-8

Structural wood sheathing directly applied or 3-11-15 oc purlins.

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

36-0-0 2-0-0 Scale = 1:61.9

4-9-8



<del> </del>	6-1-12 6-1-12	9-0-0 2-10-4	17-0-0 8-0-0	25-0-0 8-0-0	27-10-4	34-0-0 6-1-12
Plate Offsets (X,Y)	[4:0-3-0,0-2-4], [7:0-	3-0,0-2-4]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DC Lumber DOL Rep Stress In Code FBC20	1.25 icr YES	CSI. TC 0.49 BC 0.72 WB 0.96 Matrix-MS	DEFL.         in (loc)         l/defl           Vert(LL)         -0.11 14-16         >999           Vert(CT)         -0.26 14-16         >999           Horz(CT)         0.06         11         n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190  Weight: 172 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2-0-0

4-9-8

4-2-8

5-0-8

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 2=-77(LC 13)

Max Uplift 2=-325(LC 12), 11=-511(LC 8), 9=-241(LC 25) Max Grav 2=1137(LC 1), 11=1865(LC 1), 9=58(LC 12)

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

TOP CHORD 2-3=-2087/563, 3-4=-1927/538, 4-5=-1554/455, 5-6=-1469/436, 7-8=-231/1109,

8-9=-221/958

BOT CHORD 2-17=-520/1884, 16-17=-359/1546, 14-16=-406/1670, 12-14=-273/1137, 9-11=-860/241 WEBS 3-17=-253/152, 4-17=-116/315, 4-16=-39/282, 5-16=-262/115, 5-14=-328/195, 6-14=-131/542, 6-12=-1275/388, 7-12=-181/877, 7-11=-1869/446, 8-11=-296/162

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-4-13, Zone1 1-4-13 to 9-0-0, Zone2 9-0-0 to 14-0-8, Zone1 14-0-8 to 25-0-0, Zone2 25-0-0 to 29-9-11, Zone1 29-9-11 to 36-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=325, 11=511, 9=241,

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

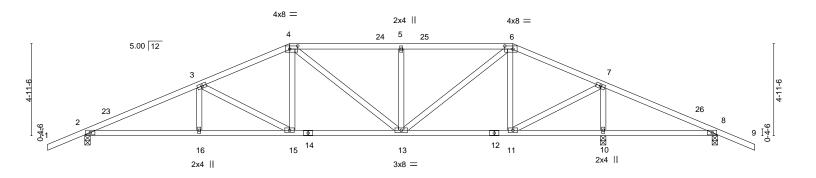


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty FORT WHITE STATION T38163577 4800784 T13 Hip Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:48 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-4mQtZCrXmOWUnvsMT1Kdo8?vEshEC6XhXCwV01ypztX 36-0-0 23-0-0 27-10-4 34-0-0 2-0-0 6-1-12 4-10-4 6-0-0 6-0-0 4-10-4 6-1-12 2-0-0

Scale = 1:61.9



<b>⊢</b>	6-1-12 6-1-12	11-0-0 4-10-4	17-0-0 6-0-0	23-0-0 6-0-0	27-10-4 4-10-4	34-0-0 6-1-12
Plate Offsets (X,			0-0-0	0-0-0	4-10-4	0-1-1Z
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DC Lumber DOL Rep Stress Ir Code FBC20	1.25 ncr YES	CSI. TC 0.51 BC 0.55 WB 0.53 Matrix-MS	DEFL.         in (loc)           Vert(LL)         -0.09         15           Vert(CT)         -0.18         13-15           Horz(CT)         0.05         10	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190  Weight: 174 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.3

(size) 2=0-3-8, 10=0-3-8, 8=0-3-8

Max Horz 2=-91(LC 13)

Max Uplift 2=-333(LC 12), 10=-412(LC 8), 8=-121(LC 9) Max Grav 2=1176(LC 1), 10=1684(LC 1), 8=153(LC 26)

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

TOP CHORD 2-3=-2141/553, 3-4=-1629/442, 4-5=-1406/435, 5-6=-1406/435, 6-7=-809/251,

7-8=-148/674

BOT CHORD 2-16=-512/1920, 15-16=-512/1920, 13-15=-324/1457, 11-13=-99/667, 10-11=-572/171,

**WEBS** 3-15=-537/215, 4-15=-68/403, 5-13=-415/209, 6-13=-264/961, 6-11=-559/176,

7-11=-280/1398, 7-10=-1533/373

- 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-4-13, Zone1 1-4-13 to 11-0-0, Zone2 11-0-0 to 15-9-11, Zone1 15-9-11 to 23-0-0, Zone2 23-0-0 to 27-10-4, Zone1 27-10-4 to 36-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333. 10=412. 8=121.

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Structural wood sheathing directly applied or 3-8-11 oc purlins.

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

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

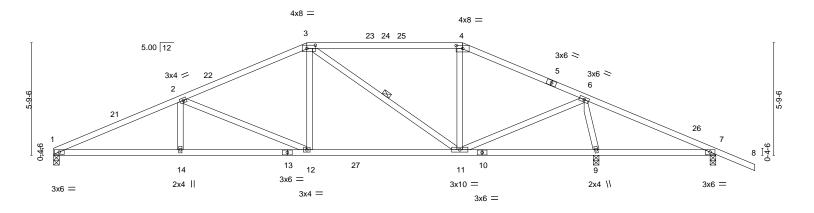


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty FORT WHITE STATION T38163578 4800784 T14 Hip Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:49 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-Yy\_FmYs9XieLP3RY0krsLLX1GGz\_xWVqmsg2ZTypztW 36-0-0 34-0-0 6-6-1 6-5-15 8-0-0 6-2-14 6-9-2 2-0-0

Scale = 1:59.1



1	6-6		13-0-0		1-0-0	27-10		34-0-0	
	6-6	-1 '	6-5-15	' 8	3-0-0	6-10-	4 '	6-1-12	ı ı
Plate C	Offsets (X,Y)	[3:0-5-4,0-2-0], [4:0-4	-0,0-1-13]						
								1	
LOADI	NG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/det	l L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DO	L 1.25	TC 0.75	Vert(LL)	-0.14 11-12 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.26 11-12 >999	180		
BCLL	0.0 *	Rep Stress Inc	or YES	WB 0.74	Horz(CT)	0.06 9 n/s	a n/a		
BCDL	10.0	Code FBC202	23/TPI2014	Matrix-MS				Weight: 165 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

WEBS

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

3-4: 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 7=0-3-8

Max Horz 1=-118(LC 13)

Max Uplift 1=-281(LC 12), 9=-362(LC 8), 7=-139(LC 9) Max Grav 1=1142(LC 2), 9=1779(LC 2), 7=200(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $1\hbox{-}2\hbox{--}2351/575, 2\hbox{-}3\hbox{--}1629/397, 3\hbox{-}4\hbox{--}980/289, 4\hbox{-}6\hbox{--}1125/286, 6\hbox{-}7\hbox{--}136/648}$ **BOT CHORD** 1-14=-547/2138, 12-14=-547/2138, 11-12=-275/1458, 7-9=-532/162 WEBS 2-14=0/262, 2-12=-754/297, 3-12=-69/581, 3-11=-627/206, 6-11=-216/1282,

6-9=-1550/372

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 13-0-0, Zone2 13-0-0 to 17-9-11, Zone1 17-9-11 to 21-0-0, Zone2 21-0-0 to 25-9-11, Zone1 25-9-11 to 36-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=281, 9=362, 7=139.

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Structural wood sheathing directly applied or 3-4-15 oc purlins.

3-11

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

1 Row at midpt

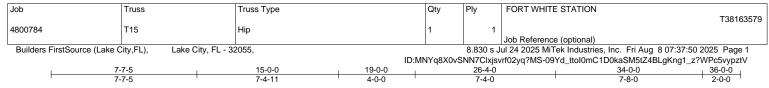
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

August 11,2025

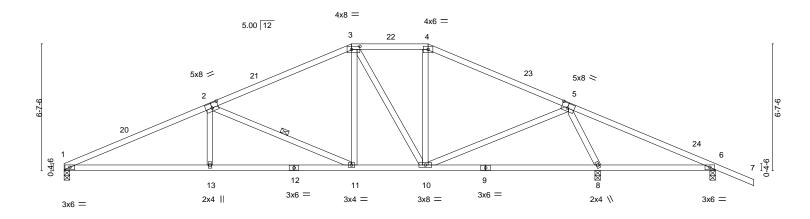


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





Scale = 1:60.1



	L	7-7-5	15-	-0-0	19-0-0	27-10-4	34-0-0	
	1	7-7-5	7-4	-11	4-0-0	8-10-4	6-1-12	
Plate Offs	sets (X,Y)	[2:0-4-0,0-3-0], [3:0-5-4	,0-2-0], [5:0-3-12	,0-3-0]				
LOADING TCLL TCDL BCLL BCDL	G (psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/	2-0-0 1.25 1.25 YES TPI2014	CSI. TC 0.80 BC 0.74 WB 0.47 Matrix-MS	Vert(CT	in (loc) I/defl L -0.15 8-10 >999 24 ) -0.30 8-10 >999 18 ) 0.06 8 n/a n/	0 MT20 244/190 0	

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

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

(size) 1=0-3-8, 8=0-3-8, 6=0-3-8

Max Horz 1=-132(LC 13)

Max Uplift 1=-279(LC 12), 8=-329(LC 13), 6=-149(LC 9) Max Grav 1=1061(LC 1), 8=1653(LC 1), 6=201(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $1\hbox{-}2\hbox{--}2147/549,\ 2\hbox{-}3\hbox{--}1298/343,\ 3\hbox{-}4\hbox{--}942/297,\ 4\hbox{-}5\hbox{--}1117/279,\ 5\hbox{-}6\hbox{--}141/664}$ **BOT CHORD** 1-13=-527/1920, 11-13=-528/1917, 10-11=-209/1118, 6-8=-525/168 2-13=0/336, 2-11=-883/351, 3-11=-109/445, 3-10=-414/159, 5-10=-145/826, WFBS

5-8=-1606/399

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 15-0-0, Zone3 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-9-11, Zone1 23-9-11 to 36-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=279, 8=329, 6=149.

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Structural wood sheathing directly applied or 3-2-6 oc purlins.

2-11

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

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

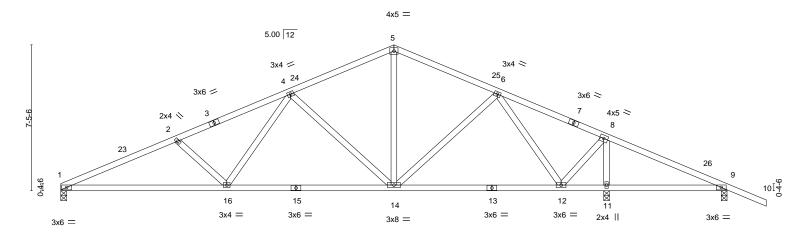


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Job Truss Truss Type Qty FORT WHITE STATION T38163580 4800784 T16 Common 3 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:50 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-09Yd\_ttol0mC1D0kaSM5tZ4FTgJ?g\_bz?WPc5vypztV 34-0-0 22-3-<u>5</u> 5-11-10 5-9-1 5-3-5 5-3-5 5-6-15 6-1-12 2-0-0

Scale = 1:58.8



		8-5-10	+	17-0-0	+	25-6-6		27-10-4	34-0-0	
		8-5-10		8-6-6		8-6-6		2-3-14	6-1-12	
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.11 12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.25 16-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.05 11	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matrix-MS					Weight: 170 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

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

REACTIONS.

1=0-3-8, 11=0-3-8, 9=0-3-8 (size)

Max Horz 1=-146(LC 13)

Max Uplift 1=-270(LC 12), 11=-354(LC 13), 9=-133(LC 9) Max Grav 1=1047(LC 1), 11=1712(LC 1), 9=185(LC 26)

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

TOP CHORD 1-2=-2150/561, 2-4=-1890/493, 4-5=-1045/283, 5-6=-1043/297, 6-8=-307/142,

8-9=-173/722

BOT CHORD 1-16=-567/1952, 14-16=-341/1394, 12-14=-81/717, 11-12=-597/195, 9-11=-597/195 WFBS 2-16=-374/217, 4-16=-125/541, 4-14=-682/301, 5-14=-114/479, 6-14=-55/339,

6-12=-955/245, 8-12=-212/1190, 8-11=-1592/347

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 1=270, 11=354, 9=133.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-7-4 oc purlins.

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

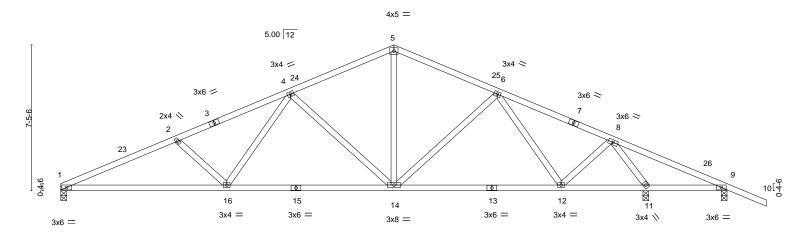


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty FORT WHITE STATION T38163581 4800784 T17 Common 2 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:51 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-UL60BDuQ3Ju3eNbx89uKQmdQa4fnPRs7DA99dMypztU 22-3-5 28-0-6 34-0-0 5-11-10 5-9-1 5-3-5 5-3-5 5-9-1 5-11-10 2-0-0

Scale = 1:58.8



	8-5-10 8-5-10	1	17-0-0 8-6-6		5-6-6 8-6-6			9-10-4 -3-14	34-0-0 4-1-12
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/TP	2-0-0 1.25 1.25 YES I2014	CSI. TC 0.57 BC 0.82 WB 0.69 Matrix-MS	Vert(CT) -0.2	in (loc) 12 12-14 28 12-14 07 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight:	244/190

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

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

REACTIONS.

1=0-3-8, 11=0-3-8, 9=0-3-8 (size)

Max Horz 1=-146(LC 13)

Max Uplift 1=-289(LC 12), 11=-374(LC 13), 9=-204(LC 25) Max Grav 1=1143(LC 1), 11=1802(LC 1), 9=56(LC 12)

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

TOP CHORD  $1\hbox{-}2\hbox{--}2391/610,\ 2\hbox{-}4\hbox{--}2133/541,\ 4\hbox{-}5\hbox{--}1291/332,\ 5\hbox{-}6\hbox{--}1291/347,\ 6\hbox{-}8\hbox{--}1002/286,}$ 

8-9=-229/1091

BOT CHORD 1-16=-611/2174, 14-16=-386/1620, 12-14=-168/1151, 11-12=-55/314, 9-11=-944/245 WFBS 2-16=-372/217, 4-16=-124/538, 4-14=-681/301, 5-14=-153/658, 6-12=-526/159,

8-12=-124/815, 8-11=-2067/455

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 36-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 1=289, 11=374, 9=204.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-4-13 oc purlins.

Rigid ceiling directly applied or 5-8-10 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

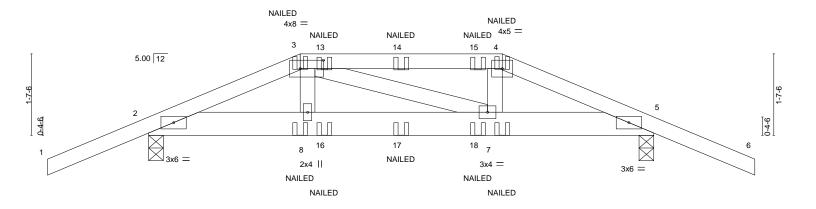


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Job Truss Truss Type Qty FORT WHITE STATION T38163582 4800784 T18 Hip Girder Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:51 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-UL60BDuQ3Ju3eNbx89uKQmdUu4oWPbf7DA99dMypztU 7-0-0 12-0-0 3-0-0 2-0-0 4-0-0 3-0-0 2-0-0

Scale = 1:22.8



	3-0-0 3-0-0	+	7-0-0 4-0-0	10-0-0 3-0-0	
Plate Offsets (X,Y)	[3:0-5-8,0-2-0]		1		
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         NO	CSI. TC 0.30 BC 0.19 WB 0.06	<b>DEFL.</b> in Vert(LL) 0.02 Vert(CT) -0.03 Horz(CT) 0.01	(loc) I/defl L/d 7-8 >999 240 7-8 >999 180 5 n/a n/a	<b>PLATES GRIP</b> MT20 244/190
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			Weight: 54 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=-35(LC 9) Max Uplift 2=-289(LC 4), 5=-289(LC 5) Max Grav 2=525(LC 1), 5=525(LC 1)

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

2-3=-722/426, 3-4=-655/404, 4-5=-714/419 TOP CHORD **BOT CHORD** 2-8=-338/698, 7-8=-344/710, 5-7=-348/684

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 13=-2(B) 14=-2(B) 15=-2(B) 16=-1(B) 17=-1(B) 18=-1(B)

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

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

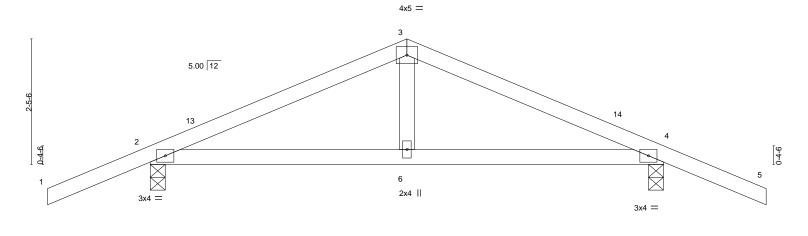


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Job Truss Truss Type Qty FORT WHITE STATION T38163583 4800784 T19 Common Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 8 07:37:52 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MNYq8X0vSNN7Clxjsvrf02yq?MS-yXgOPZv2qd0wGXA7itPZz\_9fhU7e81YGSqui9oypztT 12-0-0 2-0-0 5-0-0 5-0-0 2-0-0

Scale = 1:22.4



	5-0 5-0		10-0-0 5-0-0	<del></del>
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.29	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         0.03         6-12         >999         240	<b>PLATES GRIP</b> MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.27 WB 0.08	Vert(CT) -0.03 6-12 >999 180 Horz(CT) 0.01 4 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 41 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> 2=0-3-8, 4=0-3-8 (size) Max Horz 2=49(LC 16)

Max Uplift 2=-225(LC 8), 4=-225(LC 9) Max Grav 2=520(LC 1), 4=520(LC 1)

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

TOP CHORD 2-3=-557/377, 3-4=-557/377

BOT CHORD 2-6=-237/467, 4-6=-237/467

### 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=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 5-0-0, Zone2 5-0-0 to 9-4-15, Zone1 9-4-15 to 12-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=225, 4=225.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

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

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 11,2025

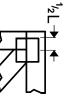


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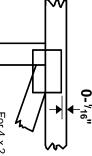


### Symbols

## 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



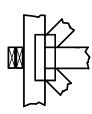
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

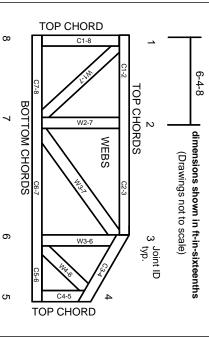
### Industry Standards:

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

ω

- 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.

'n

- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.