



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

RE: 0426-036 - SHAWN BOORMAN

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: SHAWN BOORMAN Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: COLUMBIA COUNTY 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 2 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
1	T41425616	F01	6/4/26
2	T41425617	F02	6/4/26

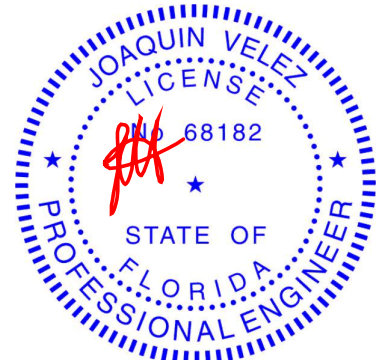


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Velez, Joaquin

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.



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

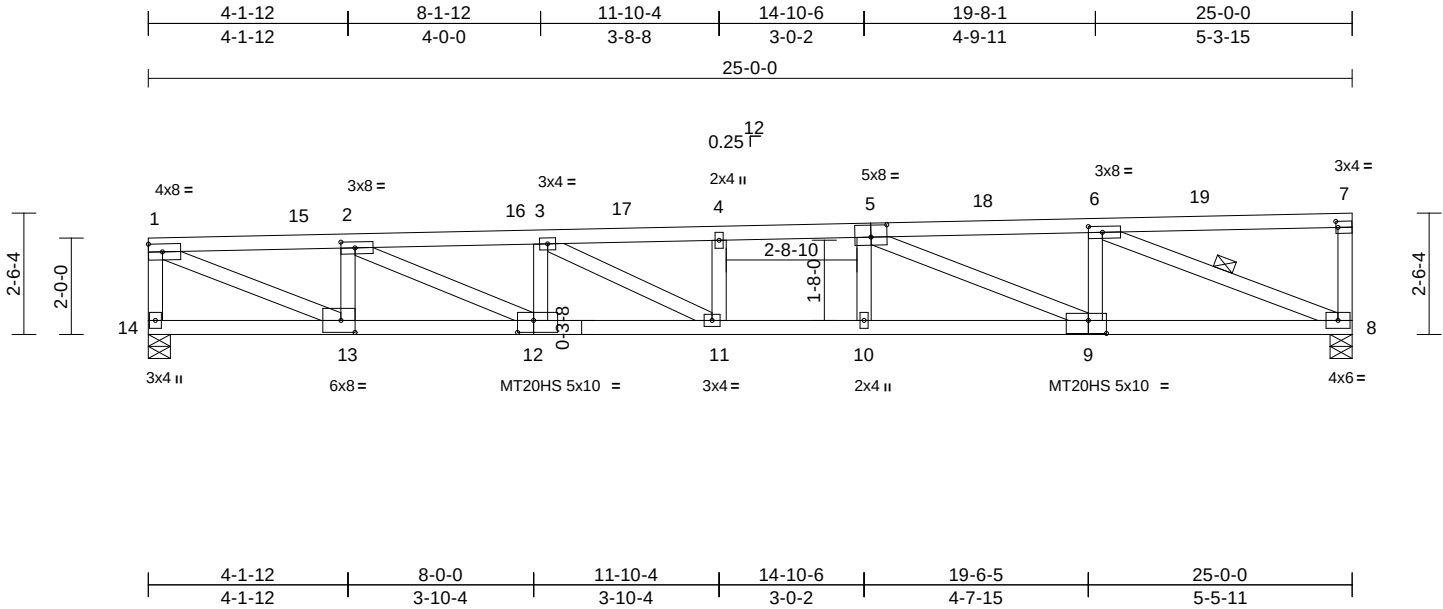
June 4, 2026

Job	Truss	Truss Type	Qty	Ply	SHAWN BOORMAN	T41425616
0426-036	F01	Monopitch	24	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Wed Jun 03 09:57:35
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Page: 1



Scale = 1:47.9

Plate Offsets (X, Y): [2:0-3-8,0-1-8], [5:0-4-0,0-3-0], [6:0-3-8,0-1-8], [7:0-0-8,0-1-8], [9:0-4-8,0-3-4], [12:0-4-0,0-3-0], [13:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.45	11-12	>660	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.65	11-12	>456	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 124 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-1:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* 12-14:2x4 SP No.2,
12-9:2x4 SP 2850F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,
except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8

REACTIONS

(size) 8=0-5-8, 14=0-5-8
Max Horiz 14=65 (LC 9)
Max Grav 8=1614 (LC 17), 14=1614 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-14=-1549/293, 7-8=-279/91,
1-2=-3066/520, 2-3=-4690/771,
3-4=-4937/814, 4-6=-4932/817, 6-7=-138/51
BOT CHORD 13-14=-109/136, 11-13=-840/4742,
10-11=-852/4933, 8-10=-853/4917
WEBS 4-11=-212/85, 5-10=0/237, 1-13=-535/3201,
3-11=-41/226, 2-13=-1220/269,
2-12=-288/1798, 3-12=-608/156,
6-8=-3323/560, 6-9=-47/783, 5-9=-1827/318

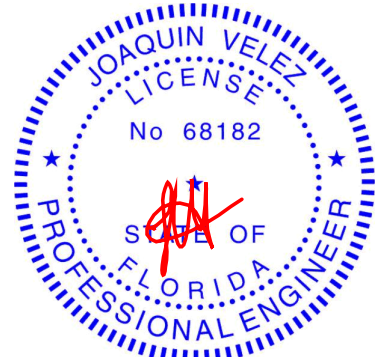
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,
Zone2 3-1-12 to 21-10-4, Zone3 21-10-4 to 24-10-4
zone; cantilever left and right exposed ; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Load case(s) 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 8-14=-20, 1-7=-60
- Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor:
Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 8-14=-20, 1-7=-110



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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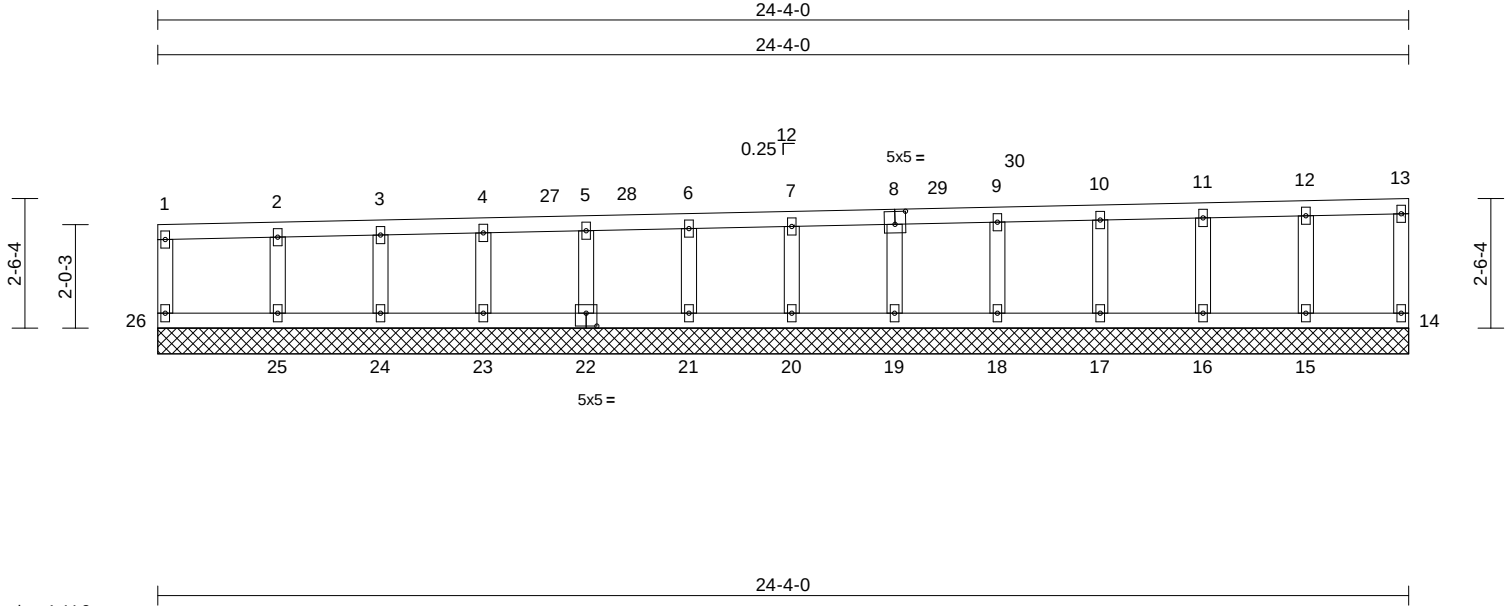
Job	Truss	Truss Type	Qty	Ply	SHAWN BOORMAN
0426-036	F02	Monopitch Supported Gable	2	1	T41425617
Job Reference (optional)					

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Wed Jun 03 09:57:36

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Scale = 1:44.8

Plate Offsets (X, Y): [8:0-2-8,0-3-0], [22:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	14	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 105 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	14=24-4-0, 15=24-4-0, 16=24-4-0, 17=24-4-0, 18=24-4-0, 19=24-4-0, 20=24-4-0, 21=24-4-0, 22=24-4-0, 23=24-4-0, 24=24-4-0, 25=24-4-0, 26=24-4-0
Max Horiz	26=65 (LC 9)
Max Uplift	14=-21 (LC 9), 16=-10 (LC 9), 17=-3 (LC 9), 23=-3 (LC 8), 24=-8 (LC 8), 25=-14 (LC 9), 26=-13 (LC 8)
Max Grav	14=69 (LC 17), 15=162 (LC 1), 16=160 (LC 23), 17=160 (LC 1), 18=160 (LC 23), 19=160 (LC 1), 20=160 (LC 23), 21=160 (LC 1), 22=160 (LC 23), 23=162 (LC 1), 24=153 (LC 23), 25=185 (LC 1), 26=81 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-26=-57/46, 1-2=-17/16, 2-3=-17/17, 3-4=-17/17, 4-5=-17/18, 5-6=-17/18, 6-7=-17/19, 7-9=-17/23, 9-10=-17/25, 10-11=-17/27, 11-12=-17/29, 12-13=-17/31, 13-14=-49/48
BOT CHORD	25-26=-49/54, 24-25=-49/54, 23-24=-49/54, 21-23=-49/54, 20-21=-49/54, 19-20=-49/54, 18-19=-49/55, 17-18=-49/55, 16-17=-49/55, 15-16=-49/55, 14-15=-49/55

WEBS

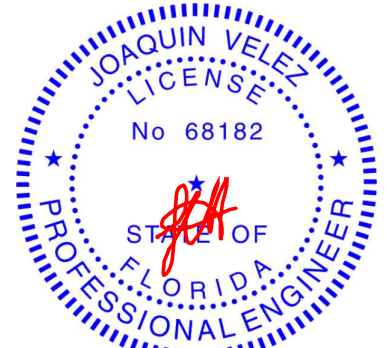
12-15=-123/83, 11-16=-120/82, 10-17=-120/78, 9-18=-120/78, 8-19=-120/68, 7-20=-120/67, 6-21=-120/67, 5-22=-120/76, 4-23=-121/81, 3-24=-115/78, 2-25=-138/118
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NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 9-1-12, Zone2 9-1-12 to 15-2-4, Zone3 15-2-4 to 24-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 26, 21 lb uplift at joint 14, 10 lb uplift at joint 16, 3 lb uplift at joint 17, 3 lb uplift at joint 23, 8 lb uplift at joint 24 and 14 lb uplift at joint 25.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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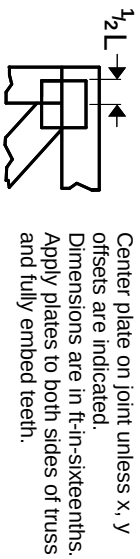
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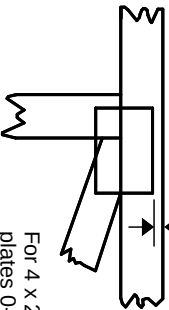
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Symbols

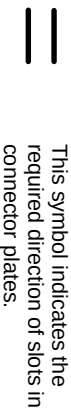
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

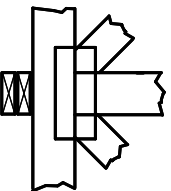
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



Joint ID typ.

