



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

RE: 0825-016 - Gary Farley

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Gary Farley Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 32 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	T38642018	A01	9/25/25	23	T38642040	J01A	9/25/25
2	T38642019	A02	9/25/25	24	T38642041	J02	9/25/25
3	T38642020	A03	9/25/25	25	T38642042	J03	9/25/25
4	T38642021	A04	9/25/25	26	T38642043	J04	9/25/25
5	T38642022	A05	9/25/25	27	T38642044	M01	9/25/25
6	T38642023	A06	9/25/25	28	T38642045	M02	9/25/25
7	T38642024	B01	9/25/25	29	T38642046	PB01	9/25/25
8	T38642025	B02	9/25/25	30	T38642047	PB02	9/25/25
9	T38642026	C01	9/25/25	31	T38642048	PB03	9/25/25
10	T38642027	C02	9/25/25	32	T38642049	PB04	9/25/25
11	T38642028	C03	9/25/25				
12	T38642029	C04	9/25/25				
13	T38642030	CJ01	9/25/25				
14	T38642031	D01	9/25/25				
15	T38642032	D02	9/25/25				
16	T38642033	D03	9/25/25				
17	T38642034	D04	9/25/25				
18	T38642035	E01	9/25/25				
19	T38642036	E02	9/25/25				
20	T38642037	E03	9/25/25				
21	T38642038	F01	9/25/25				
22	T38642039	J01	9/25/25				

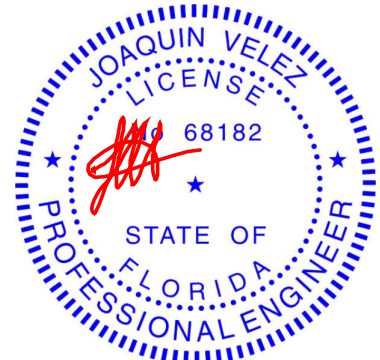


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

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:

September 25, 2025

Velez, Joaquin

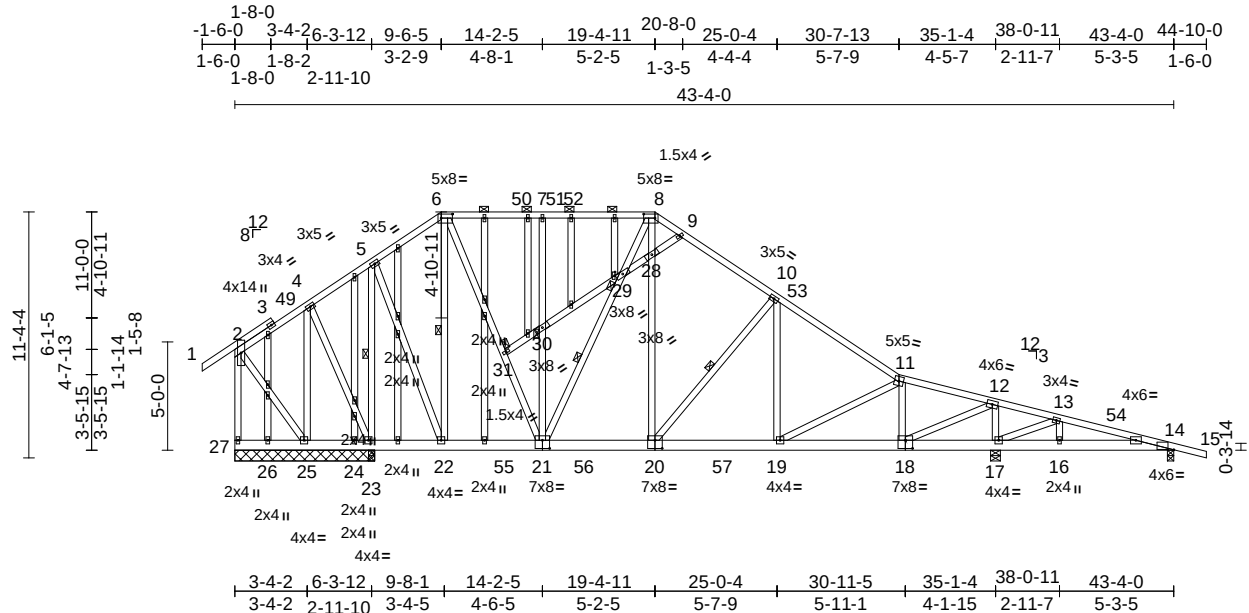
1 of 1

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642018
0825-016	A01	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:38
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Page: 1



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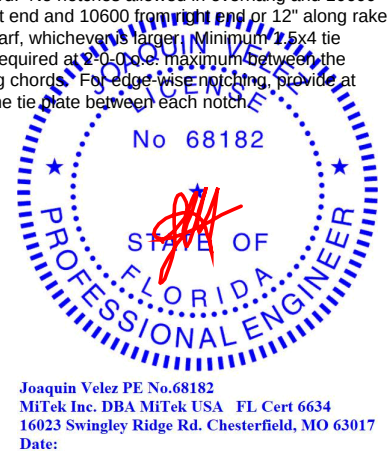
Plate Offsets (X, Y): [6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [14:0-3-4,0-0-4], [18:0-4-0,0-4-8], [20:0-4-0,0-4-8], [21:0-4-0,0-4-8], [29:0-2-0,0-0-4]

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	0.31	Vert(LL)	-0.06	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.11	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 447 lb	FT = 20%

LUMBER			WEBS			6-22=-770/76, 6-31=-90/908, 21-31=-89/910, 21-30=-328/114, 7-30=-328/112, 21-29=-392/33, 8-29=-416/17, 20-28=-21/634, 8-28=-35/692, 10-20=-524/110, 10-19=0/263, 11-19=-47/72, 11-18=-772/116, 12-18=-105/2063, 12-17=-1559/121, 2-25=-113/125, 13-17=-527/206, 13-16=-73/164, 5-23=-1246/101, 5-22=-30/952, 4-23=-64/78, 4-25=-174/57, 9-28=-67/49, 28-29=0/36, 29-30=0/12, 30-31=0/13			9) * 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, with BCDL = 10.0psf.		
TOP CHORD	2x4 SP No.2								10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 27, 74 lb uplift at joint 17, 45 lb uplift at joint 25, 9 lb uplift at joint 23, 183 lb uplift at joint 24, 11 lb uplift at joint 26 and 102 lb uplift at joint 14.		
BOT CHORD	2x6 SP No.2								11) 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.		
WEBS	2x4 SP No.2								12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.		
OTHERS	2x4 SP No.2								13) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 10600 from left end and 10600 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.		
BRACING											
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.										
BOT CHORD	Rigid ceiling directly applied.										
WEBS	1 Row at midpt	6-22, 21-29, 10-20, 5-23									
JOINTS	1 Brace at Jt(s): 29, 30, 31										
REACTIONS (size)											
	14=0-3-8, 17=0-5-8, 23=6-5-8, 24=6-5-8, 25=6-5-8, 26=6-5-8, 27=6-5-8										
Max Horiz	27=262 (LC 10)										
Max Uplift	14=102 (LC 12), 17=74 (LC 12), 23=9 (LC 12), 24=183 (LC 21), 25=45 (LC 12), 26=11 (LC 13), 27=47 (LC 8)										
Max Grav	14=232 (LC 27), 17=1901 (LC 21), 23=1612 (LC 20), 24=5 (LC 12), 25=251 (LC 20), 26=77 (LC 20), 27=279 (LC 26)										
FORCES (lb) - Maximum Compression/Maximum Tension											
TOP CHORD	1-2=0/48, 2-4=-88/65, 4-5=-84/95, 5-6=-462/176, 6-7=-699/192, 7-8=-695/191, 8-9=-964/185, 9-10=-1111/181, 10-11=-1457/125, 11-12=-1121/36, 12-13=-107/848, 13-14=-6/430, 14-15=0/24, 2-27=-265/113										
BOT CHORD	26-27=-171/211, 25-26=-171/211, 24-25=-123/161, 23-24=-123/161, 22-23=-113/177, 19-22=0/1136, 17-19=-804/1129, 16-17=-393/0, 14-16=-393/2										

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=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 9-6-5, Zone2 9-6-5 to 15-7-14, Zone1 15-7-14 to 19-4-11, Zone2 19-4-11 to 25-6-4, Zone1 25-6-4 to 44-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 1.5x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



September 25, 2025

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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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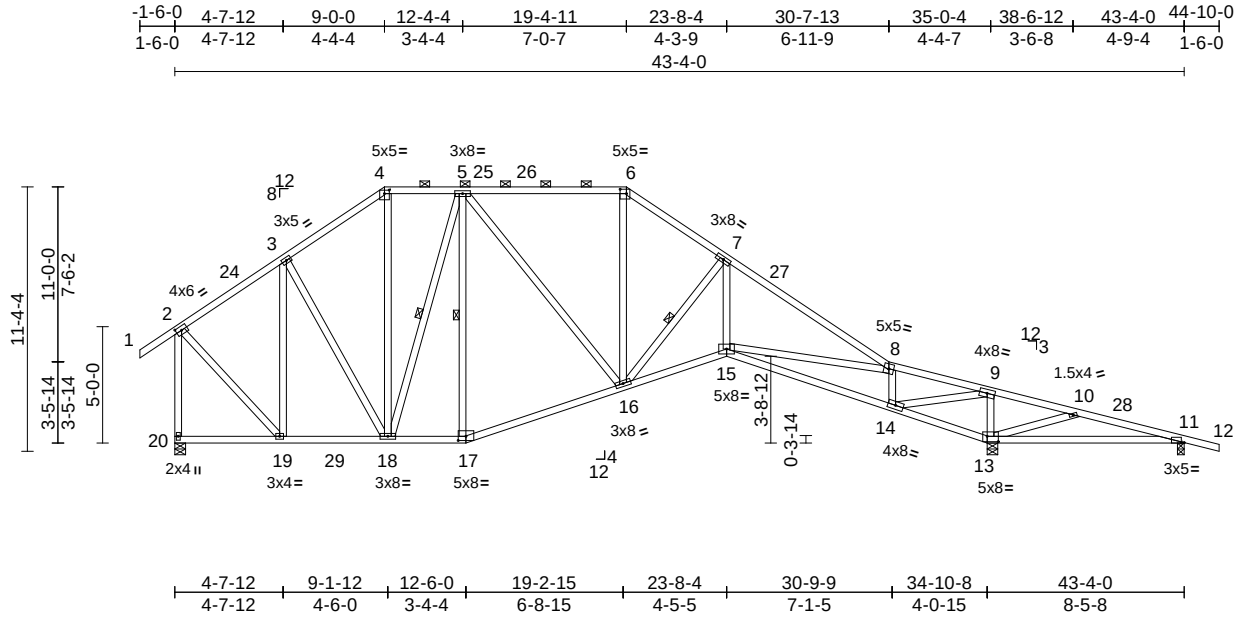
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642019
0825-016	A02	Piggyback Base	5	1	Job Reference (optional)	

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

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Page: 1



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Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-2-8,0-1-13], [6:0-3-4,0-2-4], [11:0-1-8,Edge], [13:0-5-12,0-2-12], [17:0-4-0,0-2-3]

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	0.78	0.08	13-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	-0.38	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	0.17	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 301 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 4-6.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 5-18, 5-17, 7-16

REACTIONS

(size) 11=0-3-8, 13=0-5-8, 20=0-5-8
Max Horiz 20=-266 (LC 10)
Max Uplift 11=-151 (LC 20), 13=-69 (LC 12), 20=-36 (LC 12)
Max Grav 11=-25 (LC 18), 13=2499 (LC 21), 20=1496 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/55, 2-3=-954/184, 3-4=-1099/249, 4-5=-873/245, 5-6=-1287/220, 6-7=-1593/227, 7-8=-2643/157, 8-9=-1033/39, 9-10=-107/2097, 10-11=0/1541, 11-12=0/22, 2-20=-1433/264
BOT CHORD 19-20=-169/221, 18-19=0/843, 17-18=0/1070, 16-17=0/1165, 15-16=0/2261, 14-15=0/1183, 13-14=-2259/176, 11-13=-1454/0

WEBS

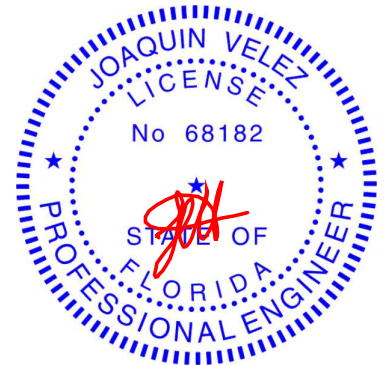
3-18=-2/299, 4-18=-80/429, 5-18=-586/82, 5-17=-198/45, 5-16=0/476, 6-16=-24/578, 8-14=-1412/148, 9-14=-101/3142, 9-13=-1473/81, 10-13=-634/213, 2-19=-36/1040, 3-19=-573/95, 7-16=-1433/119, 7-15=0/1323, 8-15=-11/1087

NOTES

1) 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=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 9-0-0, Zone2 9-0-0 to 15-1-9, Zone1 15-1-9 to 19-4-11, Zone2 19-4-11 to 25-6-4, Zone1 25-6-4 to 44-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 20, 69 lb uplift at joint 13 and 151 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

September 25,2025

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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

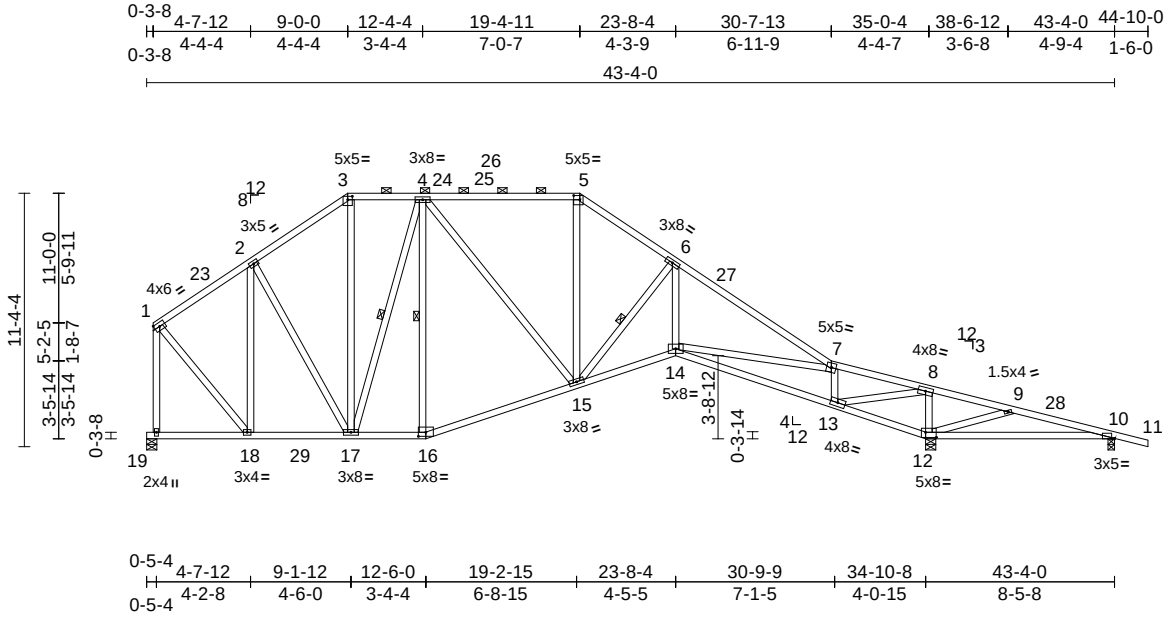
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642020
0825-016	A03	Piggyback Base	5	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:103.2

Plate Offsets (X, Y): [3:0-2-8,0-1-13], [5:0-3-4,0-2-4], [10:0-1-8,Edge], [12:0-5-12,0-2-12], [16:0-4-0,0-2-3]

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	0.78	Vert(LL)	0.08	12-22	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.38	13-14	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.17	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 298 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-7 max.): 3-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-17, 4-16, 6-15

REACTIONS

(size) 10=0-3-8, 12=0-5-8, 19=0-5-8
Max Horiz 19=260 (LC 10)
Max Uplift 10=149 (LC 9), 12=63 (LC 12)
Max Grav 10=24 (LC 18), 12=2485 (LC 21), 19=1389 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-896/169, 2-3=-1072/240, 3-4=-850/238, 4-5=-1273/221, 5-6=-1576/224, 6-7=-2621/159, 7-8=-1031/36, 8-9=-108/2080, 9-10=0/1525, 10-11=0/22, 1-19=-1331/211

BOT CHORD 18-19=-154/213, 17-18=0/804, 16-17=0/1050, 15-16=0/1144, 14-15=0/2239, 13-14=0/1179, 12-13=-2241/178, 10-12=-1438/0

WEBS

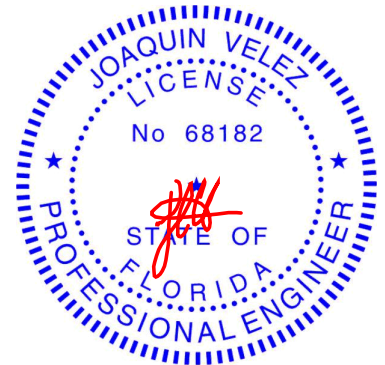
2-17=-11/326, 3-17=-87/417, 4-17=-596/83, 4-16=-193/42, 4-15=0/481, 5-15=-25/567, 7-13=-1402/150, 8-13=-103/3123, 8-12=-1465/81, 9-12=-633/213, 1-18=-110/1032, 2-18=-612/156, 6-15=-1426/120, 6-14=0/1315, 7-14=-13/1070

NOTES

1) 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=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-5-4 to 4-7-12, Zone1 4-7-12 to 9-0-0, Zone2 9-0-0 to 15-1-9, Zone1 15-1-9 to 19-4-11, Zone2 19-4-11 to 25-6-4, Zone1 25-6-4 to 44-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 12 and 149 lb uplift at joint 10.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

September 25,2025

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MiTek®

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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:40 Page: 1
ID: 5ahqakclCHVs5G7aymkl6voyhU-RfC?PsB70Hq3NSqPanL8w3uITxBGKWRCDol7J4zJC?c?

[illegible]

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

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-6 max.): 3-5.

WEBS	1 Row at midpt	3-16, 4-15, 5-14
------	----------------	------------------

Max Horiz	12=-260 (LC 10)
Max Uplift	9=-120 (LC 12), 12=-138 (LC 12)
Max Grav	9=434 (LC 27), 12=2132 (LC 2), 18=1315 (LC 20)

Tension

TOP CHORD 1-2=-846/158, 2-3=-1009/221, 3-4=-937/219,
4-5=-937/219, 5-6=-1114/198, 6-7=-1008/88,
7-8=-201/712, 8-9=-434/187, 9-10=0/24,
1-18=-1250/184

BOT CHORD 17-18=-70/82, 16-17=-117/648,
13-16=-125/928, 11-13=-556/377,
9-11=-108/405

WEBS 2-16=-11/328, 3-16=-143/62, 3-15=-33/421,
4-15=-345/112, 5-15=-58/245, 5-14=-12/193,
6-14=-35/175, 6-13=-507/161,
7-13=-166/1416, 7-12=-1661/213,
8-12=-1066/338, 8-11=-89/262,
1-17=-81/948, 2-17=-578/136

1) Unbalanced roof live loads have been considered for this design.

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 4-5-0, Zone1 4-5-0 to 8-6-8, Zone2 8-6-8 to 14-7-4, Zone1 14-7-4 to 18-11-3, Zone2 18-11-3 to 24-11-15, Zone1 24-11-15 to 44-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

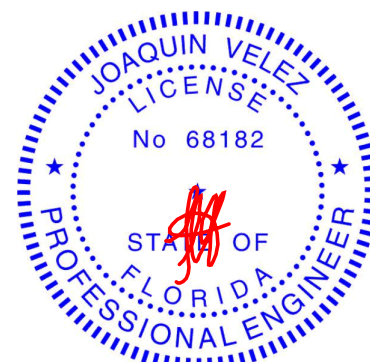
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 12 and 120 lb uplift at joint 9.

8) 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.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

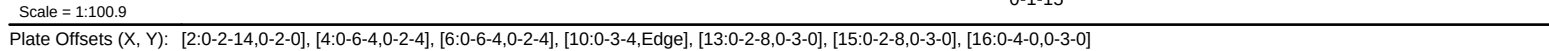
September 25, 2025



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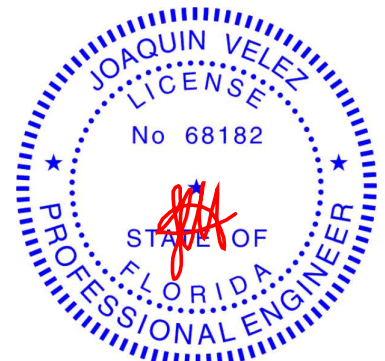
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:41 Page: 1
ID:H_fBHm60hDRhHOv?T3?LSlyogr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?fi



LUMBER		Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 9-0-0, Zone2 9-0-0 to 15-1-9, Zone1 15-1-9 to 19-4-11, Zone2 19-4-11 to 25-6-4, Zone1 25-6-4 to 44-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-10-9 max.): 4-6.	
BOT CHORD	Rigid ceiling directly applied.	
WEBS	1 Row at midpt 4-17, 5-16, 6-15	
REACTIONS		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.
(size)	10=0-3-8, 13=0-5-8, 19=0-5-8	4) Provide adequate drainage to prevent water ponding.
Max Horiz	19=-266 (LC 10)	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
Max Uplift	10=-121 (LC 12), 13=-139 (LC 12), 19=-26 (LC 12)	6) * 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, with BCDL = 10.0psf.
Max Grav	10=429 (LC 27), 13=2165 (LC 2), 19=1454 (LC 20)	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 19, 139 lb uplift at joint 13 and 121 lb uplift at joint 10.
FORCES		8) 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.
(lb) - Maximum Compression/Maximum Tension		9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
TOP CHORD	1-2=0/55, 2-3=-922/171, 3-4=-1060/229, 4-5=-963/226, 5-6=-963/226, 6-7=-1139/204, 7-8=-1027/94, 8-9=-145/724, 9-10=-430/202, 10-11=0/22, 2-19=-1387/247	
BOT CHORD	18-19=-168/221, 17-18=0/816, 14-17=0/911, 12-14=-523/395, 10-12=-127/395	
WEBS	3-17=-3/294, 4-17=-122/90, 4-16=-40/397, 5-16=-343/112, 6-16=-64/267, 6-15=-24/184, 7-15=-42/183, 7-14=-519/143, 8-14=-131/1456, 8-13=-1684/194, 9-13=-1108/357, 9-12=-84/258, 2-18=-20/992, 3-18=-537/80	

LOAD CASE(S) Standard

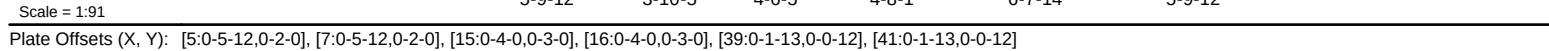


September 25, 2025

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 Components Association (www.sbcsccomponents.com)

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:41 Page: 1
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LUMBER		Unbalanced roof live loads have been considered for this design.		LOAD CASE(S) Standard	
TOP CHORD	2x4 SP No.2	1) Wind: ASCE 7-22; Vult=130mph (3-second gust)		1) Dead + Roof Live (balanced): Lumber Increase=1.25,	
BOT CHORD	2x4 SP No.2	Vasd=101mph; TCDDL=6.0psf; BCDL=6.0psf; h=15ft;		Plate Increase=1.25	
WEBS	2x4 SP No.2	B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed;		Uniform Loads (lb/ft)	
OTHERS	2x4 SP No.2	MWFRS (directional); cantilever left and right exposed ;		Vert: 1-2=-60, 2-5=-60, 5-7=-60, 7-10=-60, 11-21=-20	
BRACING		end vertical left and right exposed; Lumber DOL=1.60		Concentrated Loads (lb)	
TOP CHORD	Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.	plate grip DOL=1.60		Vert: 15=-132 (F), 58=-132 (F), 59=-132 (F), 60=-132 (F), 62=-132 (F), 63=-132 (F), 65=-132 (F), 66=-132 (F), 67=-132 (F), 68=-132 (F)	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.			
	6-0-0 oc bracing: 14-15.	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.			
WEBS	1 Row at midpt 5-17, 6-16, 7-15, 4-18	5) Provide adequate drainage to prevent water ponding.			
REACTIONS	(size) 11=5-11-8, 12=5-11-8, 13=5-11-8, 14=5-11-8, 18=5-11-8, 19=5-11-8, 20=5-11-8, 21=5-11-8	6) All plates are 1.5x4 () MT20 unless otherwise indicated.			
	Max Horiz 21=-254 (LC 6)	7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).			
	Max Uplift 11=-15 (LC 25), 13=-126 (LC 1), 14=-132 (LC 8), 18=-146 (LC 8), 19=-44 (LC 1), 21=-34 (LC 4)	8) Gable studs spaced at 2-0-0 oc.			
	Max Grav 11=110 (LC 20), 12=138 (LC 21), 13=25 (LC 8), 14=2044 (LC 14), 18=1551 (LC 13), 19=25 (LC 8), 20=100 (LC 3), 21=450 (LC 14)	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
		10) * 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, with BCDL = 10.0psf.			
FORCES		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 21, 146 lb uplift at joint 18, 15 lb uplift at joint 11, 132 lb uplift at joint 14, 126 lb uplift at joint 13 and 44 lb uplift at joint 19.			
	(lb) - Maximum Compression/Maximum Tension	12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.			
TOP CHORD	1-2=0/48, 2-4=-243/62, 4-5=-668/139, 5-6=-721/145, 6-7=-721/145, 7-8=-880/134, 8-10=-61/140, 2-21=-418/37, 10-11=-119/7	13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.			
BOT CHORD	20-21=-216/213, 19-20=-216/213, 18-19=-216/213, 17-18=-84/197, 14-17=-82/671, 13-14=-17/31, 12-13=-17/31, 11-12=-17/31	14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).			
WEBS	5-17=-388/13, 5-16=-35/581, 6-16=-320/55, 7-16=-20/242, 7-15=-72/91, 2-18=-64/213, 10-14=-88/73, 8-14=-1450/130, 8-15=0/912, 4-18=-1332/90, 4-17=0/882				
NOTES					



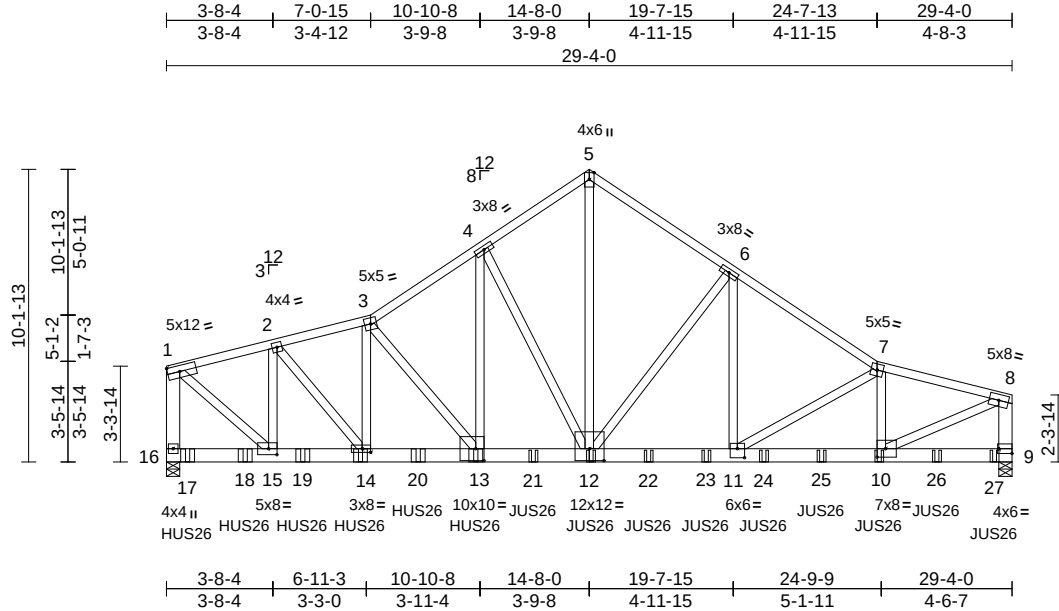
September 25, 2025

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642024
0825-016	B01	Roof Special Girder	1	3	Job Reference (optional)	

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

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Page: 1



Scale = 1:79.9

Plate Offsets (X, Y): [9:Edge,0-2-0], [10:0-3-8,0-3-8], [11:0-3-0,0-3-12], [12:0-6-0,0-5-0], [13:0-3-8,0-5-0], [14:0-3-8,0-1-8], [15:0-3-8,0-2-8]

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	0.71	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.29	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 710 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* 16-1,9-8:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-5-8, 16=0-5-8
Max Horiz 16=-193 (LC 6)
Max Grav 9=9639 (LC 14), 16=10294 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-8181/0, 2-3=-11255/0, 3-4=-10927/0, 4-5=-8668/0, 5-6=-8715/0, 6-7=-11413/0, 7-8=-11663/0, 1-16=-8786/0, 8-9=-8002/0
BOT CHORD 15-16=-73/316, 14-15=0/8002, 13-14=0/11035, 11-13=0/9492, 10-11=0/11387, 9-10=0/439
WEBS 2-15=-4457/0, 2-14=0/4687, 3-14=-1157/0, 4-12=-4130/0, 5-12=0/9321, 6-12=-3789/0, 6-11=0/4168, 7-11=-2268/0, 7-10=-2453/0, 1-15=0/10198, 8-10=0/11945, 4-13=0/4669, 3-13=-2988/0

NOTES

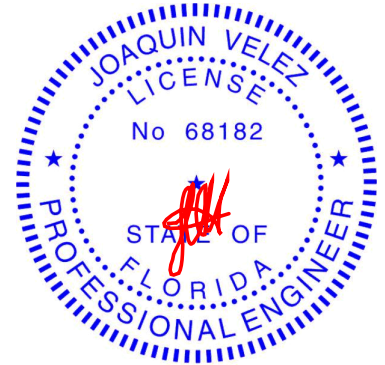
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-14 2x4 - 1 row at 0-6-0 oc, member 7-10 2x4 - 1 row at 0-4-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 10-8-12 to connect truss(es) to back face of bottom chord.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-8-12 from the left end to 28-8-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 7-8=-60, 9-16=-20
Concentrated Loads (lb)

Vert: 14=-1146 (B), 12=-991 (B), 10=-991 (B), 13=-1146 (B), 17=-1151 (B), 18=-1146 (B), 19=-1146 (B), 20=-1146 (B), 21=-991 (B), 22=-991 (B), 23=-991 (B), 24=-991 (B), 25=-991 (B), 26=-991 (B), 27=-997 (B)



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

September 25,2025

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

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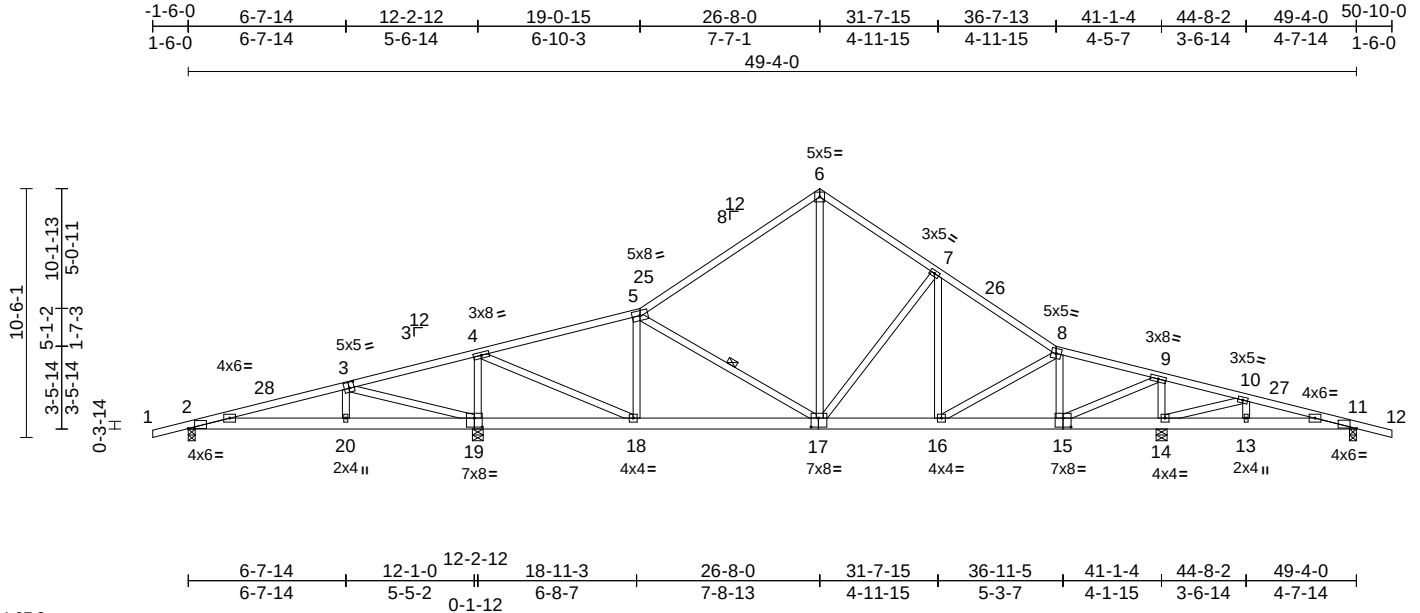
Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642025
0825-016	B02	Roof Special	5	1	Job Reference (optional)	

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

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Scale = 1:97.3

Plate Offsets (X, Y): [2:0-3-4,0-0-0], [3:0-2-8,0-3-0], [11:0-3-4,0-0-4], [15:0-4-0,0-4-8], [17:0-3-12,0-4-8], [19:0-4-0,0-4-8]

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	0.59	Vert(LL)	0.03	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.11	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-17

REACTIONS (size) 2=0-3-8, 11=0-3-8, 14=0-5-8, 19=0-5-8
Max Horiz 2=162 (LC 11)
Max Uplift 2=-122 (LC 12), 11=-101 (LC 12), 14=-70 (LC 12), 19=-127 (LC 12)
Max Grav 2=396 (LC 23), 11=250 (LC 24), 14=1653 (LC 1), 19=1867 (LC 1)

FORCES

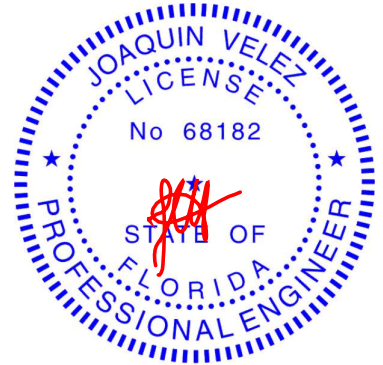
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-943/152, 6-7=-889/163, 7-8=-1126/103, 8-9=-838/17, 9-10=-107/765, 10-11=-30/288, 11-12=0/24, 1-2=0/24, 2-4=-295/792, 4-5=-934/45
BOT CHORD 2-20=-175/272, 18-20=-656/234, 16-18=0/898, 14-16=-714/843, 13-14=-260/0, 11-13=-260/16
WEBS 3-20=-97/253, 3-19=-904/343, 4-19=-1462/161, 4-18=-128/1657, 5-18=-548/152, 5-17=-268/69, 6-17=-28/538, 7-17=-363/123, 8-15=-672/106, 9-15=-84/1657, 9-14=-1356/111, 7-16=0/173, 8-16=-30/64, 10-13=-67/149, 10-14=-524/244

NOTES

1) 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=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-5-3, Zone1 3-5-3 to 26-8-0, Zone2 26-8-0 to 33-7-12, Zone1 33-7-12 to 50-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 122 lb uplift at joint 2, 127 lb uplift at joint 19, 70 lb uplift at joint 14 and 101 lb uplift at joint 11.
- 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



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

September 25,2025

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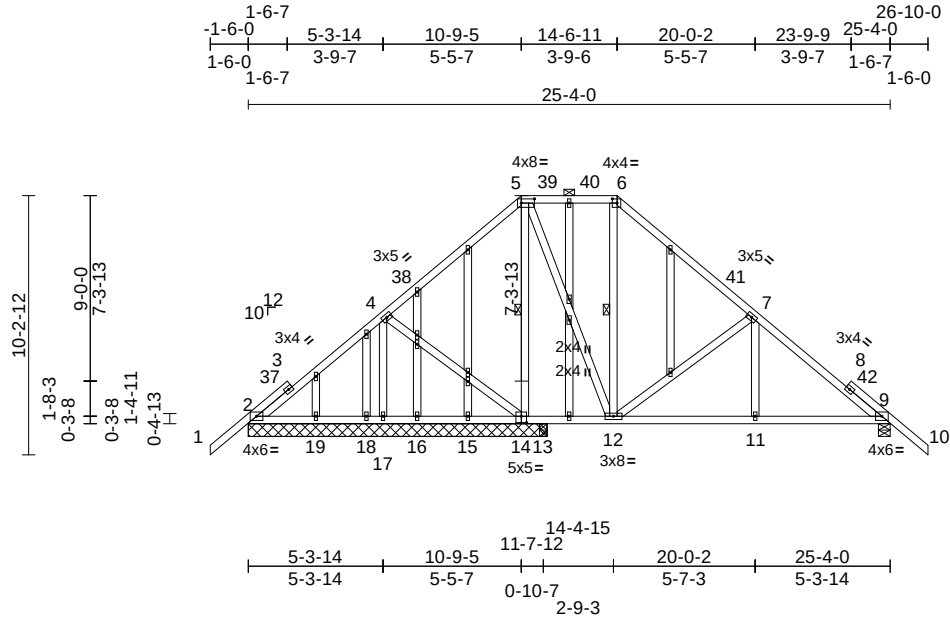
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642026
0825-016	C01	Piggyback Base Structural Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:42
ID:U4c2rTVD32Ob1q134eYnUVyoydl-RfC?PsB70Hq3NSgPqnL8w3ulTxBkGKWrCDoi7J4zJC?r

Page: 1



Scale = 1:90.9

Plate Offsets (X, Y): [5:0-6-4,0-2-0], [6:0-2-4,0-2-0], [14:0-2-8,0-3-0]

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	0.28	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.05	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 210 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 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-14, 6-12

REACTIONS	(size)	2=11-9-8, 9=0-5-8, 13=0-3-8, 14=11-9-8, 15=11-9-8, 16=11-9-8, 17=11-9-8, 18=11-9-8, 19=11-9-8
	Max Horiz	2=-199 (LC 10)
	Max Uplift	2=-56 (LC 12), 9=-46 (LC 12), 14=-23 (LC 12), 17=-49 (LC 12), 18=-10 (LC 23)
	Max Grav	2=245 (LC 23), 9=672 (LC 24), 13=74 (LC 1), 14=694 (LC 1), 15=90 (LC 3), 16=69 (LC 3), 17=359 (LC 23), 18=41 (LC 3), 19=124 (LC 3)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/58, 2-4=-130/151, 4-5=-132/125, 5-6=-183/109, 6-7=-344/93, 7-9=-677/27, 9-10=0/66
BOT CHORD	2-19=-96/87, 18-19=-96/87, 17-18=-96/87, 16-17=-96/87, 15-16=-96/87, 13-15=-106/151, 12-13=-106/151, 11-12=0/484, 9-11=0/484
WEBS	4-17=-325/59, 4-14=-56/83, 5-14=-689/22, 5-12=-12/465, 6-12=-126/25, 7-12=-409/78, 7-11=0/233

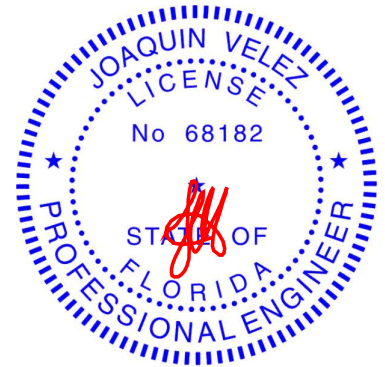
NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 10-9-5, Zone3 10-9-5 to 14-6-11, Zone2
14-6-11 to 18-9-10, Zone1 18-9-10 to 26-10-0 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
- 3) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 1.5x4 (II) MT20 unless otherwise
indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 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 56 lb uplift at joint
2, 23 lb uplift at joint 14, 49 lb uplift at joint 17, 46 lb uplift
at joint 9, 10 lb uplift at joint 18 and 56 lb uplift at joint 2.
- 11) 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.
- 12) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S)

Standard



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

September 25,2025

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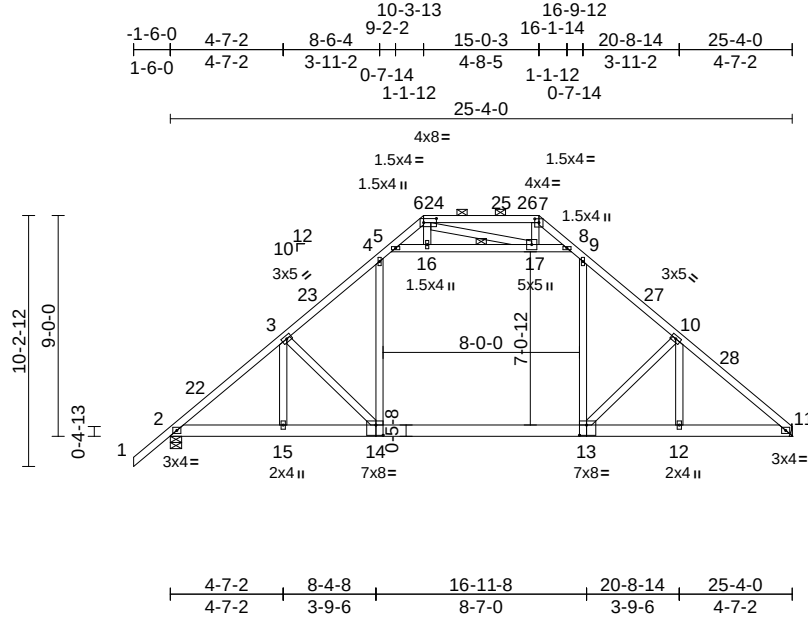
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642027
0825-016	C02	Attic	12	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:43
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Page: 1



Scale = 1:93.9

Plate Offsets (X, Y): [6:0-6-4,0-2-0], [7:0-2-0,0-1-13], [13:0-3-8,0-5-0], [14:0-3-8,0-5-0]

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	0.51	Vert(LL)	-0.17	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.27	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.13	13-14	>806	360	Weight: 175 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-8

REACTIONS

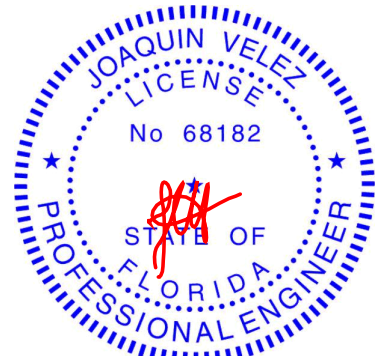
(size) 2=0-5-8, 11= Mechanical
Max Horiz 2=189 (LC 11)
Max Grav 2=1423 (LC 18), 11=1336 (LC 19)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-1873/0, 3-4=-1766/0, 4-5=-1133/0, 5-6=-338/48, 6-7=-215/63, 7-8=-314/47, 8-9=-1132/0, 9-10=-1763/0, 10-11=-1881/0
BOT CHORD 2-15=0/1514, 12-15=0/1514, 11-12=0/1402
WEBS 3-14=-358/84, 4-14=0/767, 9-13=0/764, 10-13=-380/95, 5-16=-1197/0, 16-17=-1190/0, 8-17=-1228/0, 3-15=-149/138, 10-12=-136/163, 6-16=0/61, 6-17=-121/72, 7-17=0/66

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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-3-13, Zone2 10-3-13 to 14-6-12, Zone1 14-6-12 to 15-0-3, Zone2 15-0-3 to 19-3-1, Zone1 19-3-1 to 25-4-0 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.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 16-17, 8-17; Wall dead load (5.0psf) on member (s).4-14, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
- Refer to girder(s) for truss to truss connections.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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

September 25,2025

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MiTek®

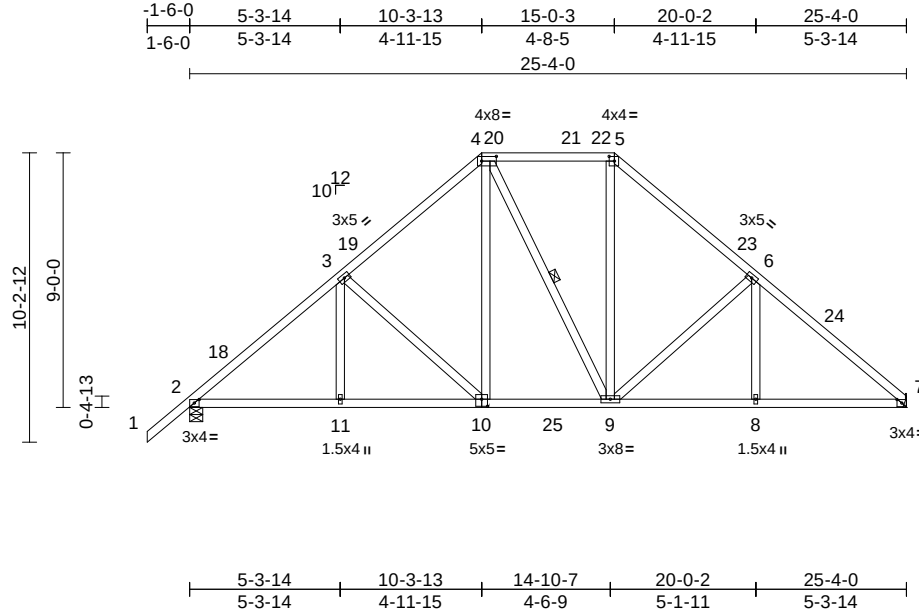
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642028
0825-016	C03	Piggyback Base	9	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:43
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Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0], [7:0-2-1,0-1-8], [10:0-2-8,0-3-0]

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	0.25	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.09	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 159 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-9

REACTIONS

(size) 2=0-5-8, 7= Mechanical
Max Horiz 2=189 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1220 (LC 17), 7=1130 (LC 18)

FORCES

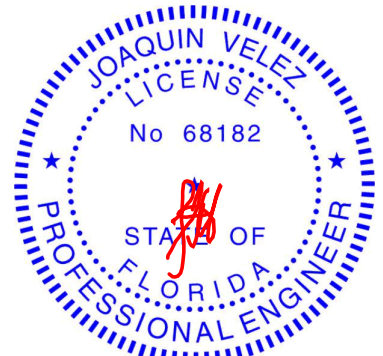
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-1485/77, 3-4=-1141/140,
4-5=-822/146, 5-6=-1133/145, 6-7=-1477/89
BOT CHORD 2-11=-1/1198, 9-11=0/1198, 8-9=0/1084,
7-8=-27/1084
WEBS 3-11=0/216, 3-10=-432/97, 4-10=-9/480,
4-9=97/106, 5-9=-16/454, 6-9=-450/102,
6-8=0/221

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 1-6-0 to 1-6-0,
Zone1 1-6-0 to 10-3-13, Zone2 10-3-13 to 14-6-12,
Zone1 14-6-12 to 15-0-3, Zone2 15-0-3 to 19-3-1, Zone1
19-3-1 to 25-4-0 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.

- 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
2.
- 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



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

September 25,2025

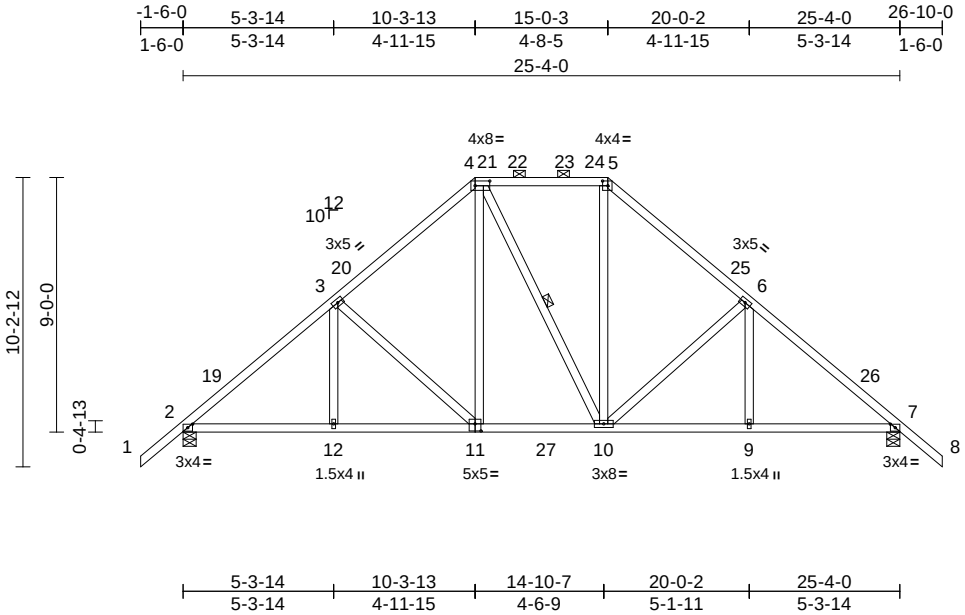
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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642029
0825-016	C04	Piggyback Base	10	1	Job Reference (optional)	



Scale = 1:81.4

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0], [7:0-2-1,0-1-8], [11:0-2-8,0-3-0]

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	0.23	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 162 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied.

BOT CHORD

WEBS 1 Row at midpt 4-10

REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=198 (LC 11)

Max Uplift 2=-35 (LC 12), 7=-35 (LC 12)

Max Grav 2=1219 (LC 17), 7=1215 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-3=-1482/31, 3-4=-1139/97, 4-5=-819/109, 5-6=-1126/97, 6-7=-1478/30, 7-8=0/58

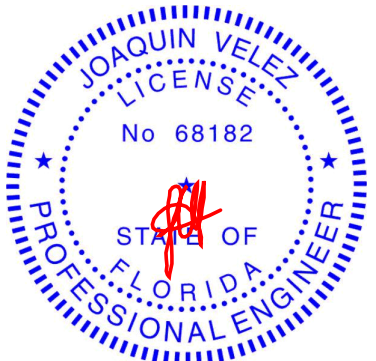
BOT CHORD 2-12=0/1208, 10-12=0/1208, 9-10=0/1087, 7-9=0/1087

WEBS 3-12=0/216, 3-11=-432/79, 4-11=0/480, 4-10=-97/104, 5-10=0/450, 6-10=-435/79, 6-9=0/218

- 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 1-6-0 to 1-6-0, Zone1 1-6-0 to 10-3-13, Zone2 10-3-13 to 14-6-12, Zone1 14-6-12 to 15-0-3, Zone2 15-0-3 to 19-3-1, Zone1 19-3-1 to 26-10-0 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.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 7.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

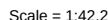
LOAD CASE(S) Standard



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

September 25,2025

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:44 Page: 1
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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-8-6, 4= Mechanical, 5= Mechanical
Max Horiz 2=75 (LC 23)
Max Uplift 2=-179 (LC 4), 4=-41 (LC 4), 5=-17 (LC 4)
Max Grav 2=514 (LC 13), 4=129 (LC 1), 5=354 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1293/154, 3-4=-37/18
BOT CHORD 2-7=-189/1273, 6-7=-189/1273, 5-6=0/0
WEBS 3-7=0/251, 3-6=-1312/195

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4, 179 lb uplift at joint 2 and 17 lb uplift at joint 5.
 - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 23 lb down and 98 lb up at 1-3-15, and 23 lb down and 98 lb up at 1-3-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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 (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 10=102 (F=51, B=51), 12=-76 (F=-38, B=-38), 13=-15 (F=-7, B=-7), 14=-66 (F=-33, B=-33)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially
Enclosed; MWFRS (directional); cantilever left and right
exposed ; end vertical left and right exposed; Lumber
DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.



September 25, 2025



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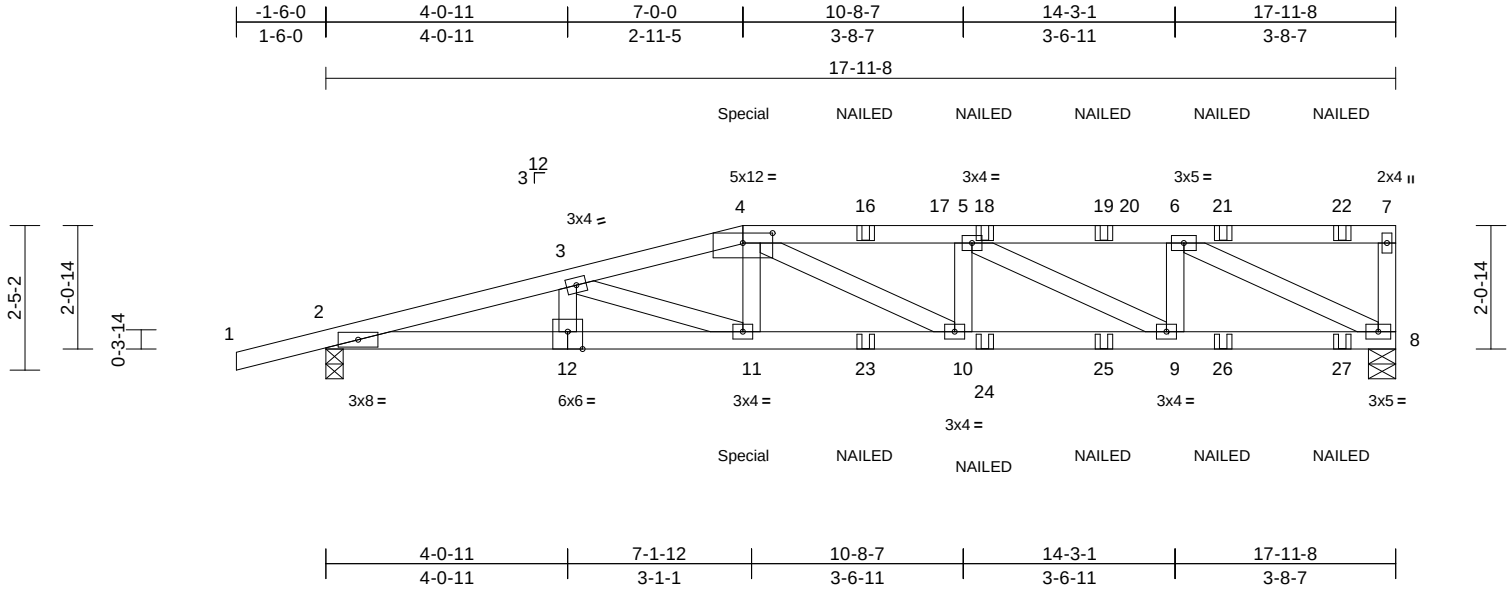
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642031
0825-016	D01	Half Hip Girder	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:44
ID:PRppKf2034I0hrxNkhJUSlyoyZA-RfC?PsB70Hq3NSgPqnLbw3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:38.7

Plate Offsets (X, Y): [4:0-6-0,0-2-0], [12:0-3-0,Edge]

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	0.68	Vert(LL)	-0.18	10-11	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.37	10-11	>575	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.09	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 86 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-5-8
Max Horiz 2=55 (LC 7)
Max Uplift 2=-164 (LC 8), 8=-138 (LC 5)
Max Grav 2=1383 (LC 1), 8=1623 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-4346/406, 3-4=-4100/389, 4-5=-3952/371, 5-6=-2643/249, 6-7=-94/32, 7-8=-225/70
BOT CHORD 2-11=-374/4196, 10-11=-344/4016, 9-10=-342/3952, 8-9=-228/2643
WEBS 4-11=0/609, 3-11=-241/196, 3-12=-5/76, 6-8=-2872/244, 5-10=0/316, 4-10=-114/18, 5-9=-1463/137, 6-9=0/838

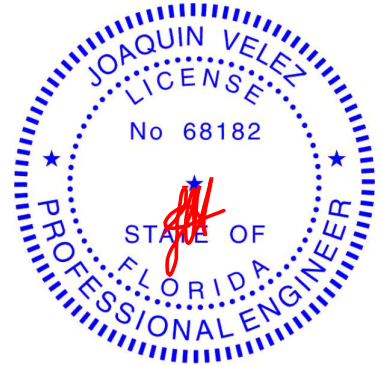
NOTES

- 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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 138 lb uplift at joint 8 and 164 lb uplift at joint 2.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down and 78 lb up at 7-0-0 on top chord, and 393 lb down and 6 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 4=-167 (B), 11=-374 (B), 16=-123 (B), 18=-123 (B), 19=-123 (B), 21=-123 (B), 22=-130 (B), 23=-65 (B), 24=-65 (B), 25=-65 (B), 26=-65 (B), 27=-68 (B)



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

September 25,2025

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

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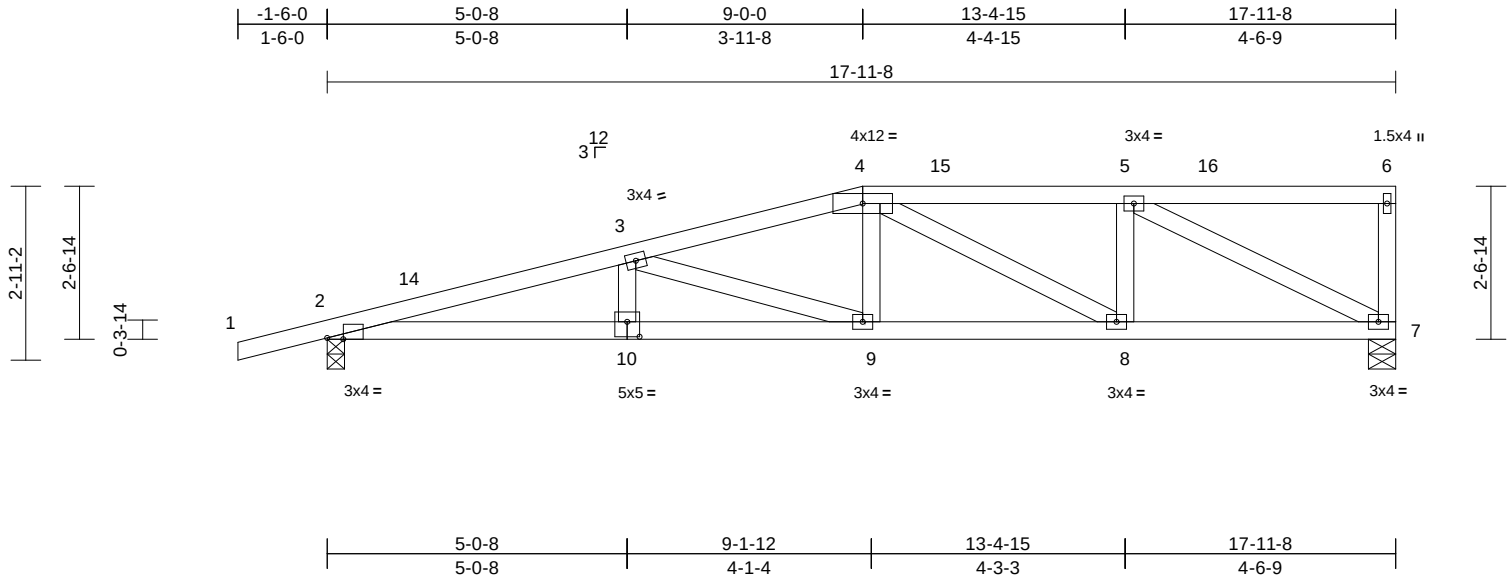
Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642032
0825-016	D02	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:44

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Scale = 1:38.7

Plate Offsets (X, Y): [2:0-3-4,Edge], [10:0-2-8,0-3-0]

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	0.26	Vert(LL)	-0.08	9-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.17	9-10	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 86 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 7=0-5-8
Max Horiz 2=69 (LC 11)
Max Uplift 2=-120 (LC 12), 7=-81 (LC 12)
Max Grav 2=806 (LC 1), 7=709 (LC 1)

FORCES

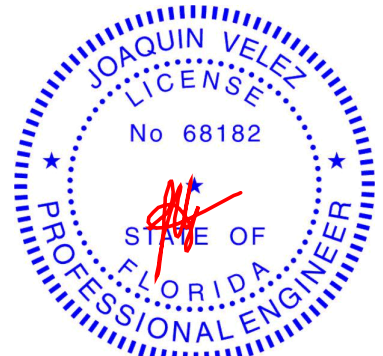
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-2088/519, 3-4=-1471/396,
4-5=-1080/328, 5-6=-75/54, 6-7=-122/86
BOT CHORD 2-9=-597/2008, 8-9=-413/1417,
7-8=-304/1080
WEBS 3-9=-638/195, 4-9=-14/318, 5-7=-1172/312,
5-8=0/315, 4-8=-380/122, 3-10=0/172

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-4-15, Zone1 13-4-15 to 17-9-12 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.
- 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 81 lb uplift at joint 7 and 120 lb uplift at joint 2.
- 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



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

September 25,2025

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

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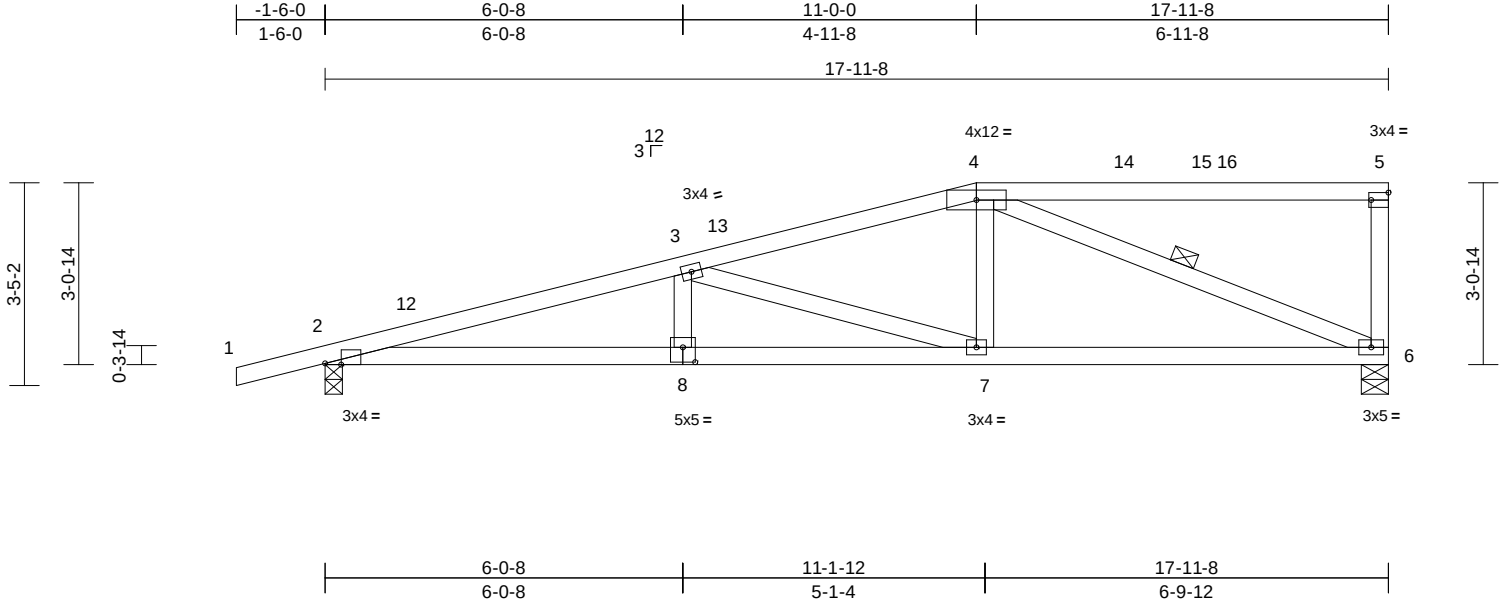
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642033
0825-016	D03	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:45
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Page: 1



Scale = 1:38.9

Plate Offsets (X, Y): [2:0-3-4,Edge], [5:Edge,0-1-8], [8:0-2-8,0-3-0]

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	0.45	Vert(LL)	-0.09	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.18	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 83 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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 4-6

REACTIONS

(size) 2=0-3-8, 6=0-5-8
Max Horiz 2=84 (LC 11)
Max Uplift 2=-120 (LC 12), 6=-82 (LC 12)
Max Grav 2=806 (LC 1), 6=709 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

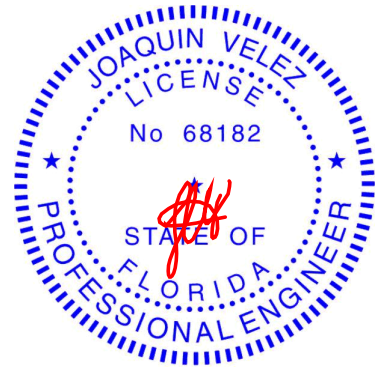
TOP CHORD 1-2=0/22, 2-3=-2000/478, 3-4=-1193/321, 4-5=-113/81, 5-6=-209/129
BOT CHORD 2-7=-578/1917, 6-7=-349/1142
WEBS 3-8=0/207, 3-7=-829/239, 4-7=0/433, 4-6=-1151/335

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-9-12 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.

- 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 120 lb uplift at joint 2 and 82 lb uplift at joint 6.
- 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



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

September 25,2025

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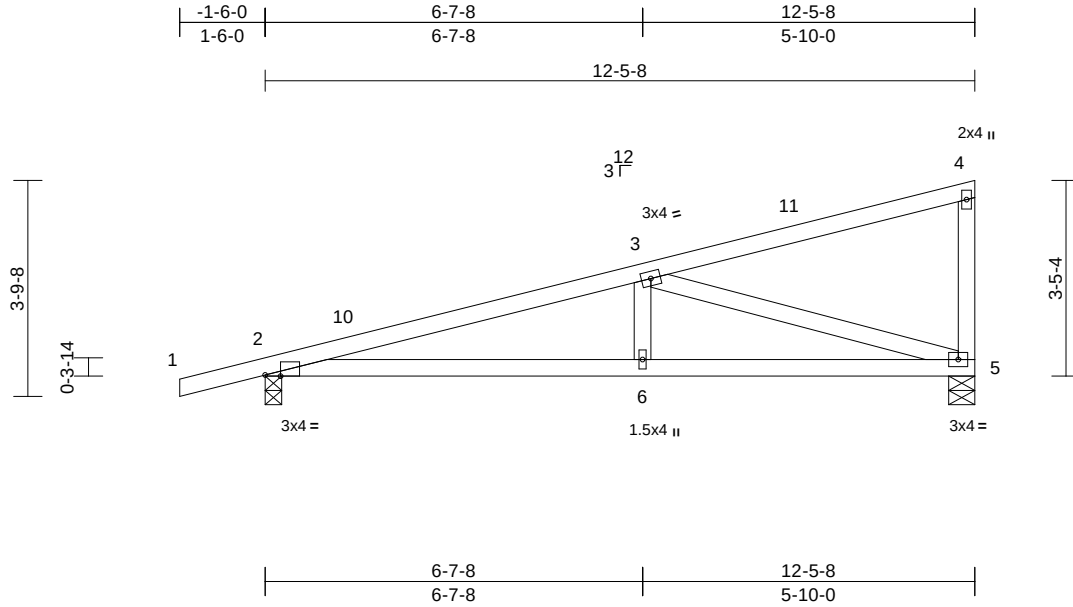
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642034
0825-016	D04	Monopitch	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:40.4

Plate Offsets (X, Y): [2:0-3-4, Edge]

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	0.36	Vert(LL)	-0.06	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.13	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 5=0-5-8
Max Horiz 2=93 (LC 11)
Max Uplift 2=-94 (LC 12), 5=-56 (LC 12)
Max Grav 2=588 (LC 1), 5=487 (LC 23)

FORCES

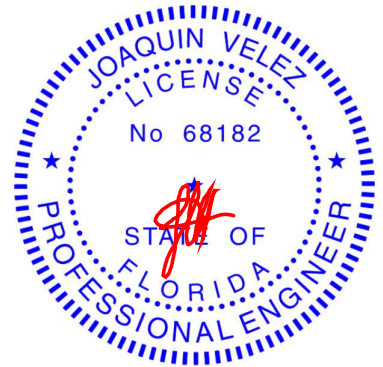
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1101/298, 3-4=-107/55, 4-5=-138/152
BOT CHORD 2-6=-395/1045, 5-6=-395/1045
WEBS 3-6=0/268, 3-5=-1055/373

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-3-12 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.
- 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 94 lb uplift at joint 2 and 56 lb uplift at joint 5.
- 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



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

September 25, 2025

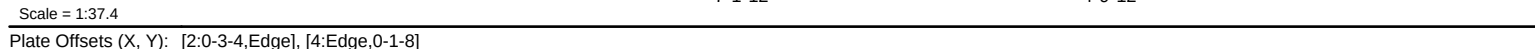
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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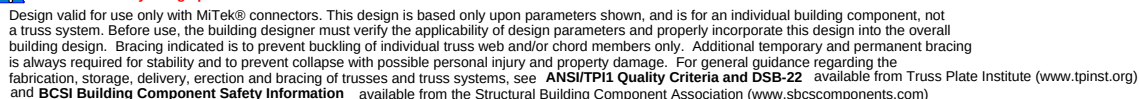
Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:45 Page: 1
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[illegible]

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially
enclosed; MWFRS (directional); cantilever left and right
exposed ; end vertical 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.
- 6) * 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.



September 25, 2025



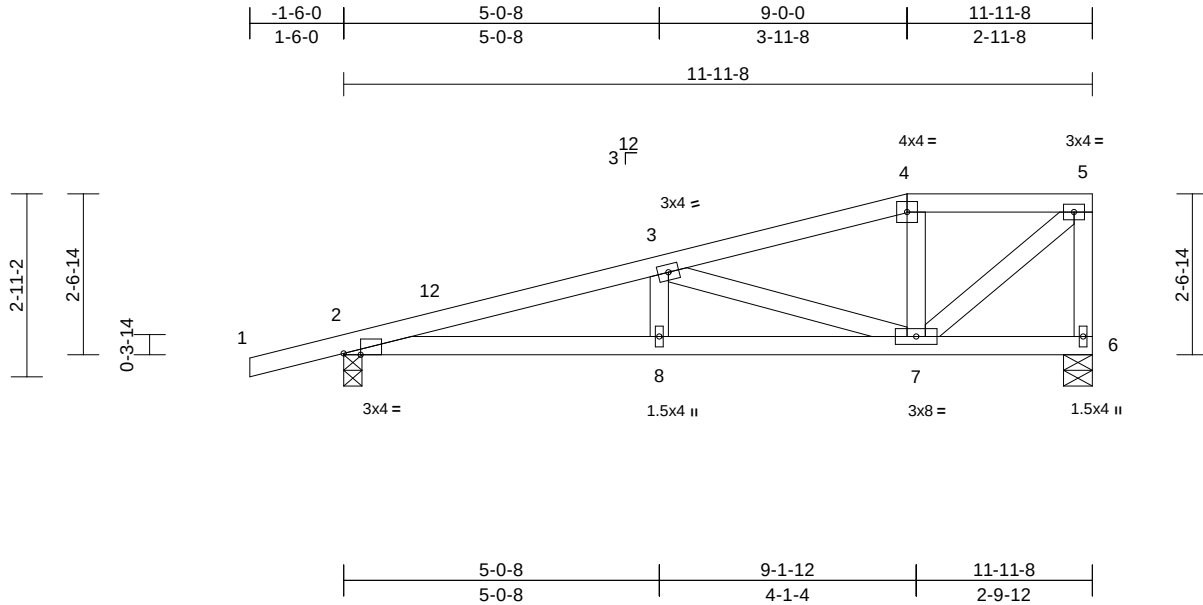
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642036
0825-016	E02	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:45
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Page: 1



Scale = 1:36.8

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.21	Vert(LL)	-0.04	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.08	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 56 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 6=0-5-8
Max Horiz 2=69 (LC 11)
Max Uplift 2=-93 (LC 12), 6=-53 (LC 12)
Max Grav 2=568 (LC 1), 6=467 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

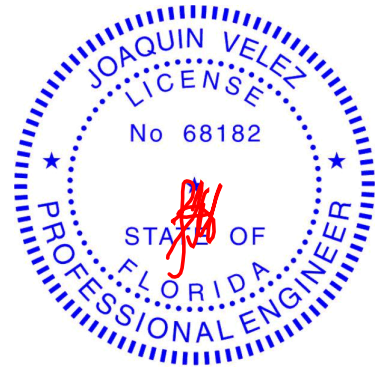
TOP CHORD 1-2=0/22, 2-3=-1166/387, 3-4=-495/185, 4-5=-444/190, 5-6=-442/228
BOT CHORD 2-8=-481/1115, 7-8=-481/1115, 6-7=-33/39
WEBS 3-7=-698/269, 4-7=-90/133, 5-7=-256/565, 3-8=0/185

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-9-12 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.
- 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 53 lb uplift at joint 6 and 93 lb uplift at joint 2.
- 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



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

September 25,2025

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

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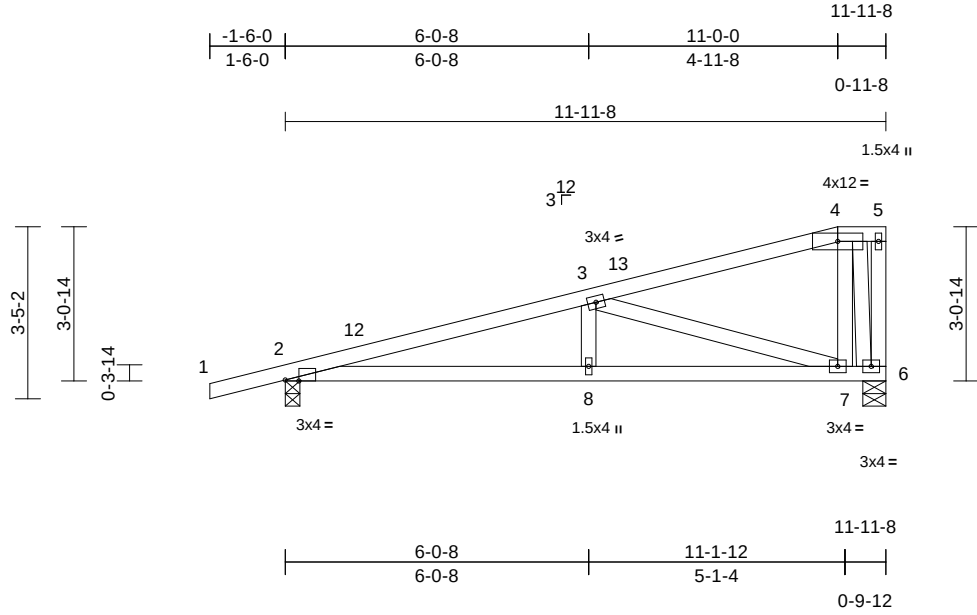
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642037
0825-016	E03	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:45
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Page: 1



Scale = 1:45.9

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.29	Vert(LL)	-0.05	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.10	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 6=0-5-8
Max Horiz 2=84 (LC 11)
Max Uplift 2=-93 (LC 12), 6=-53 (LC 12)
Max Grav 2=568 (LC 23), 6=467 (LC 23)

FORCES

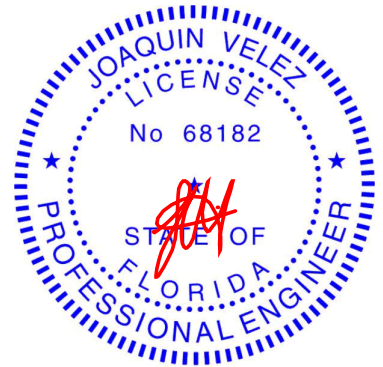
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1077/293, 3-4=-197/82, 4-5=-63/60, 5-6=-64/46
BOT CHORD 2-8=-409/1024, 7-8=-409/1024, 6-7=-83/160
WEBS 4-6=-532/228, 4-7=-30/376, 3-7=-921/340, 3-8=0/235

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone3 11-0-0 to 11-9-12 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.
- 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 53 lb uplift at joint 6 and 93 lb uplift at joint 2.
- 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



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

September 25,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

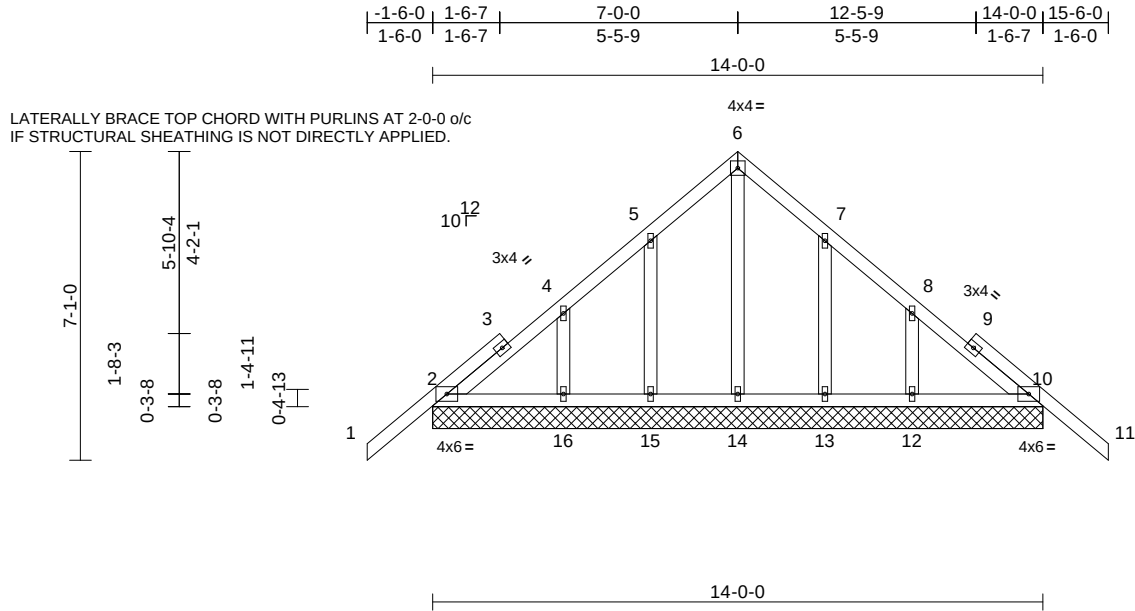
Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642038
0825-016	F01	Common	2	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:46

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Scale = 1:52.9

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	20	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 84 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (size)	2=14-0-0, 10=14-0-0, 12=14-0-0, 13=14-0-0, 14=14-0-0, 15=14-0-0, 16=14-0-0
Max Horiz	2=133 (LC 11)
Max Uplift	2=-39 (LC 12), 10=-39 (LC 12), 12=-11 (LC 12), 13=-39 (LC 12), 15=-39 (LC 12), 16=-11 (LC 12)
Max Grav	2=226 (LC 1), 10=226 (LC 1), 12=210 (LC 18), 13=163 (LC 18), 14=146 (LC 17), 15=165 (LC 17), 16=206 (LC 17)

FORCES

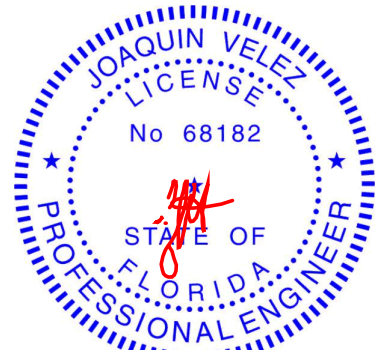
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/58, 2-4=-112/96, 4-5=-85/64, 5-6=-76/152, 6-7=-76/153, 7-8=-54/58, 8-10=-108/64, 10-11=0/58
BOT CHORD	2-16=-68/167, 15-16=-68/167, 14-15=-68/167, 13-14=-68/167, 12-13=-68/167, 10-12=-68/167
WEBS	6-14=-119/6, 5-15=-131/124, 4-16=-150/131, 7-13=-129/124, 8-12=-153/130

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 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.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 39 lb uplift at joint 2, 39 lb uplift at joint 10, 39 lb uplift at joint 15, 11 lb uplift at joint 16, 39 lb uplift at joint 13, 11 lb uplift at joint 12, 39 lb uplift at joint 2 and 39 lb uplift at joint 10.
- 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



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

September 25,2025

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

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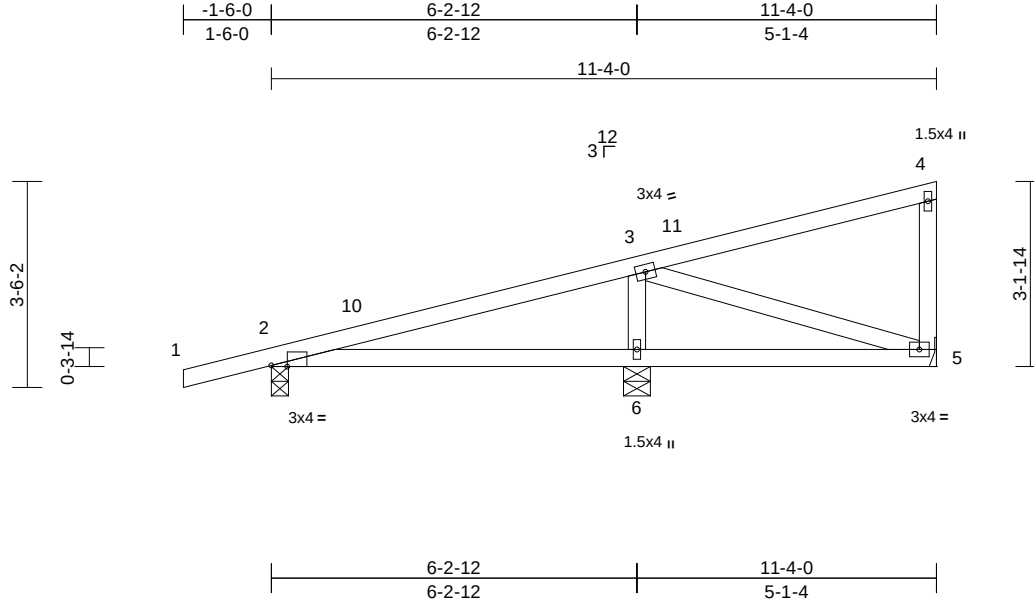
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642039
0825-016	J01	Jack-Closed	10	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:39.3

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.34	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6=0-5-8
Max Horiz 2=85 (LC 11)
Max Uplift 2=-42 (LC 12), 5=-4 (LC 12)
Max Grav 2=313 (LC 23), 5=152 (LC 23), 6=520 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

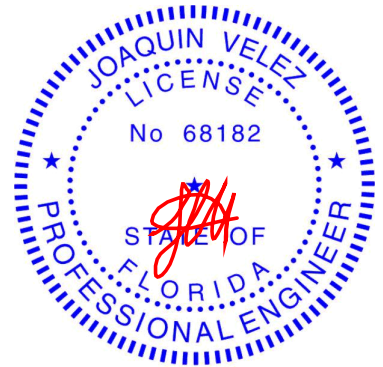
TOP CHORD 1-2=0/22, 2-3=-102/56, 3-4=-79/37, 4-5=-112/97
BOT CHORD 2-6=-61/122, 5-6=-61/62
WEBS 3-6=-367/184, 3-5=-32/38

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-2-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2 and 4 lb uplift at joint 5.
- 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



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

September 25,2025

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

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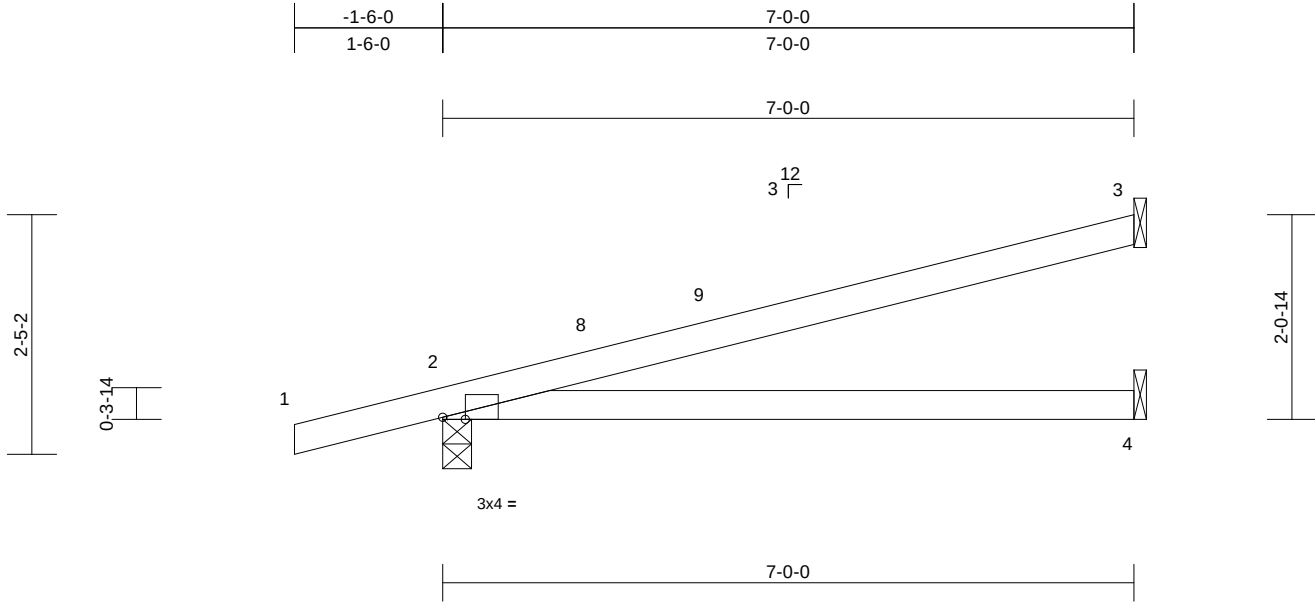
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642040
0825-016	J01A	Jack-Open	9	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:23.3

Plate Offsets (X, Y): [2:0-2-12,Edge]

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	0.58	Vert(LL)	0.11	4-7	>736	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.21	4-7	>401	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/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=71 (LC 12)
Max Uplift 2=-66 (LC 12), 3=-57 (LC 12)
Max Grav 2=377 (LC 1), 3=183 (LC 1), 4=121 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

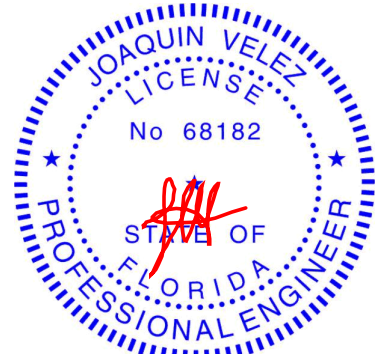
TOP CHORD 1-2=0/22, 2-3=-166/36
BOT CHORD 2-4=-80/178

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 57 lb uplift at joint 3 and 66 lb uplift at joint 2.

- 7) 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



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

September 25,2025

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

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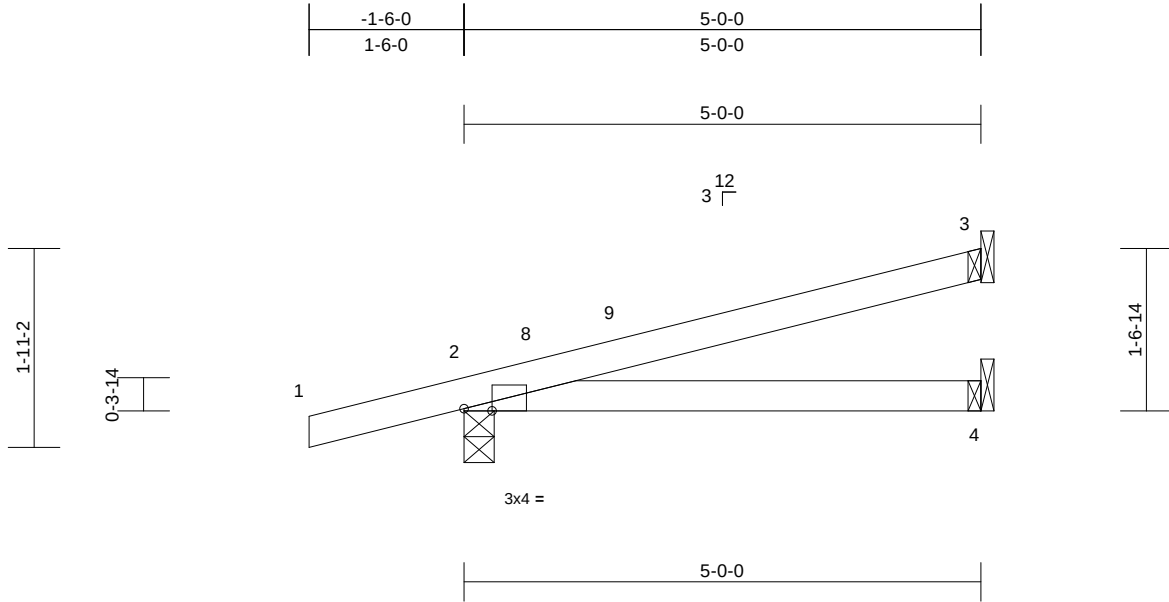
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642041
0825-016	J02	Jack-Open	4	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:46
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Page: 1



Scale = 1:22.3

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.27	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 18 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=55 (LC 12)
Max Uplift 2=-60 (LC 12), 3=-37 (LC 12)
Max Grav 2=301 (LC 1), 3=123 (LC 1), 4=85 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

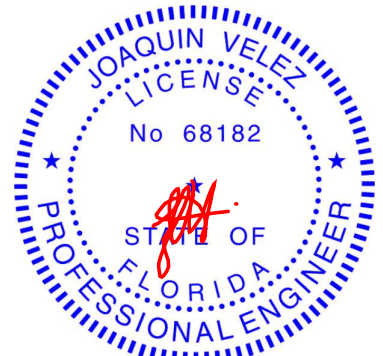
TOP CHORD 1-2=0/22, 2-3=-111/26
BOT CHORD 2-4=-59/119

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 37 lb uplift at joint 3 and 60 lb uplift at joint 2.

- 7) 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



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

September 25,2025

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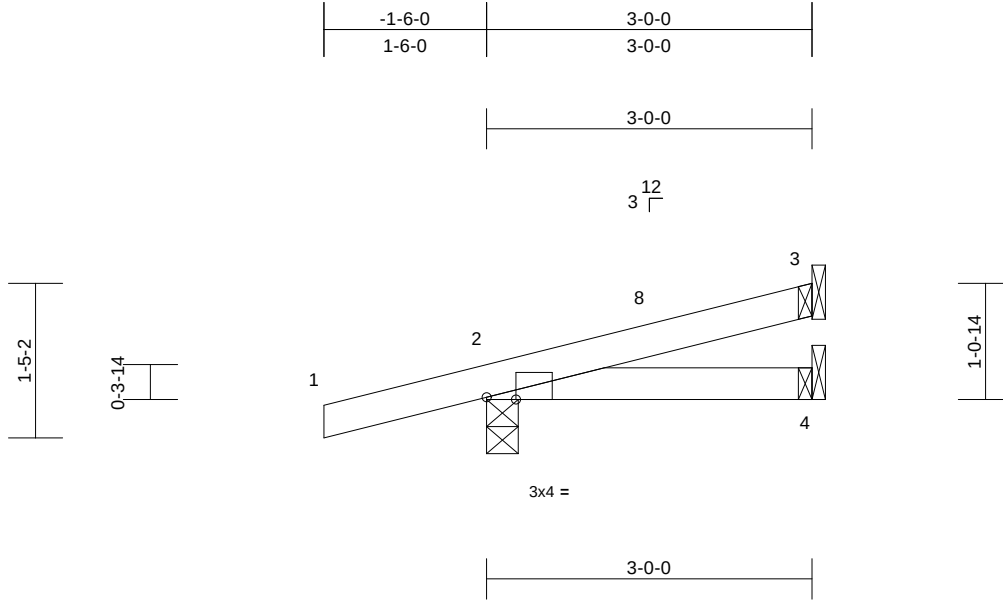
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642042
0825-016	J03	Jack-Open	4	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:47
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Page: 1



Scale = 1:21.2

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.15	Vert(LL)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=38 (LC 12)
Max Uplift 2=-57 (LC 12), 3=-16 (LC 12)
Max Grav 2=230 (LC 1), 3=62 (LC 17), 4=48 (LC 3)

FORCES

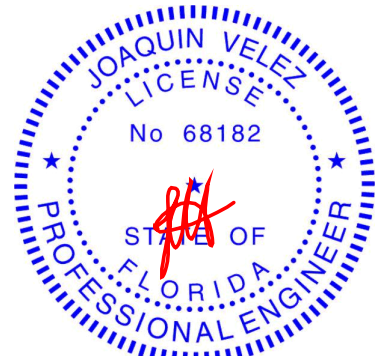
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-61/15
BOT CHORD 2-4=-5/56

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 16 lb uplift at joint 3 and 57 lb uplift at joint 2.
- LOAD CASE(S)** Standard



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

September 25,2025

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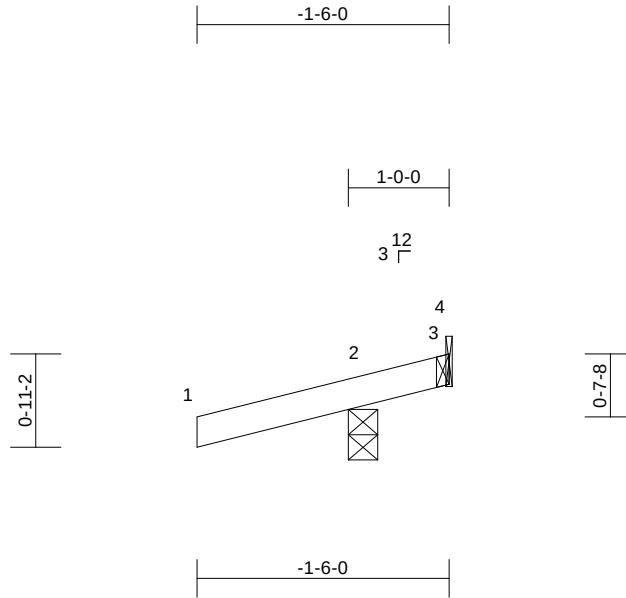
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642043
0825-016	J04	Jack-Open	4	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:22.9

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	0.18	Vert(LL)	0.00	2-3	>999	240		
TCDL	10.0	Lumber DOL	1.25	BC	0.00	Vert(CT)	0.00	2-3	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 4 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BRACING

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

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

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

Max Horiz 2=22 (LC 12)

Max Uplift 2=-94 (LC 12), 3=-78 (LC 1)

Max Grav 2=225 (LC 1), 3=36 (LC 12)

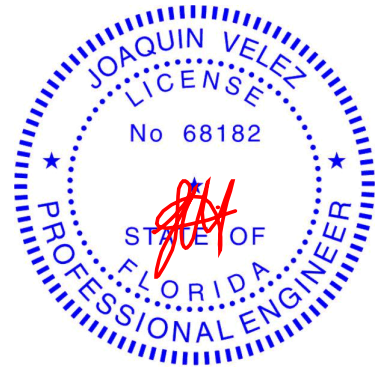
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-31/28, 3-4=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially
Enclosed; MWFRS (directional) and C-C Zone3 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
- 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 78 lb uplift at joint
3 and 94 lb uplift at joint 2.
- 6) Beveled plate or shim required to provide full bearing
surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



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

September 25,2025

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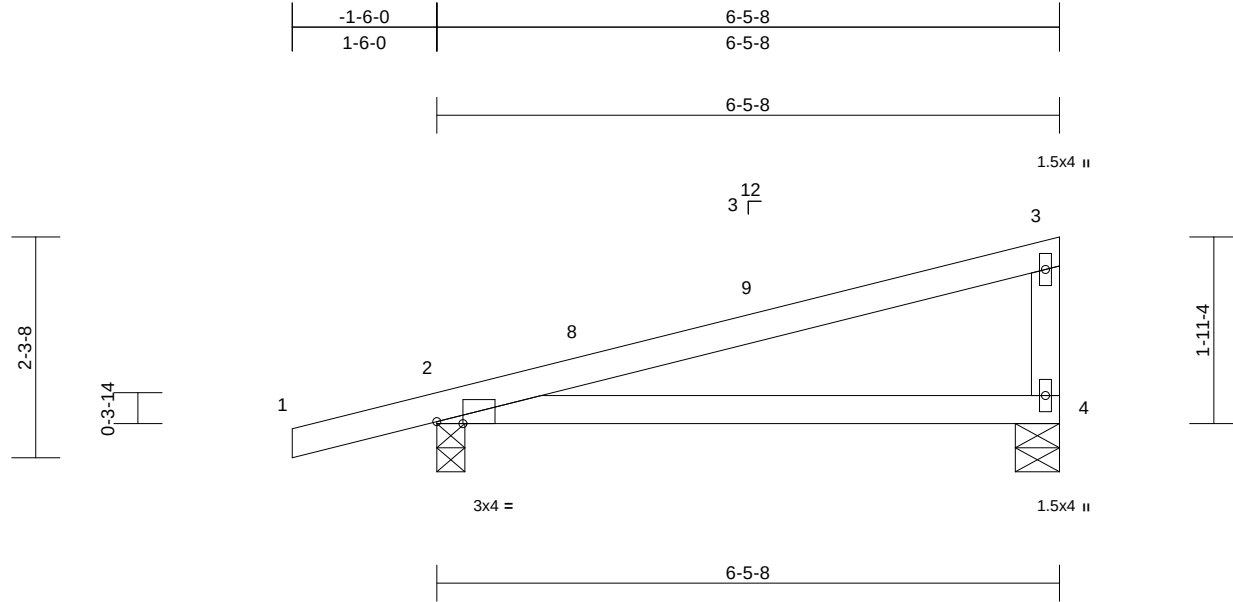
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642044
0825-016	M01	Monopitch	10	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:23.9

Plate Offsets (X, Y): [2-0-3-4,Edge]

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	0.47	Vert(LL)	0.09	4-7	>806	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.14	4-7	>532	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/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 4=0-5-8
Max Horiz 2=50 (LC 11)
Max Uplift 2=-70 (LC 12), 4=-25 (LC 12)
Max Grav 2=353 (LC 1), 4=242 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

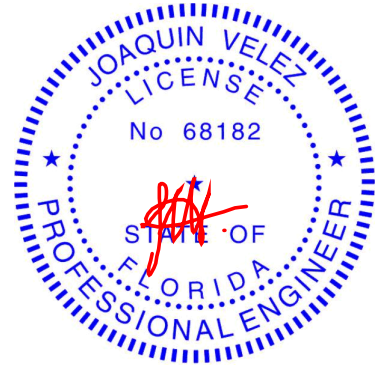
TOP CHORD 1-2=0/22, 2-3=-144/45, 3-4=-164/211
BOT CHORD 2-4=-91/166

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-3-12 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.
- 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 25 lb uplift at joint 4 and 70 lb uplift at joint 2.
- 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



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

September 25,2025

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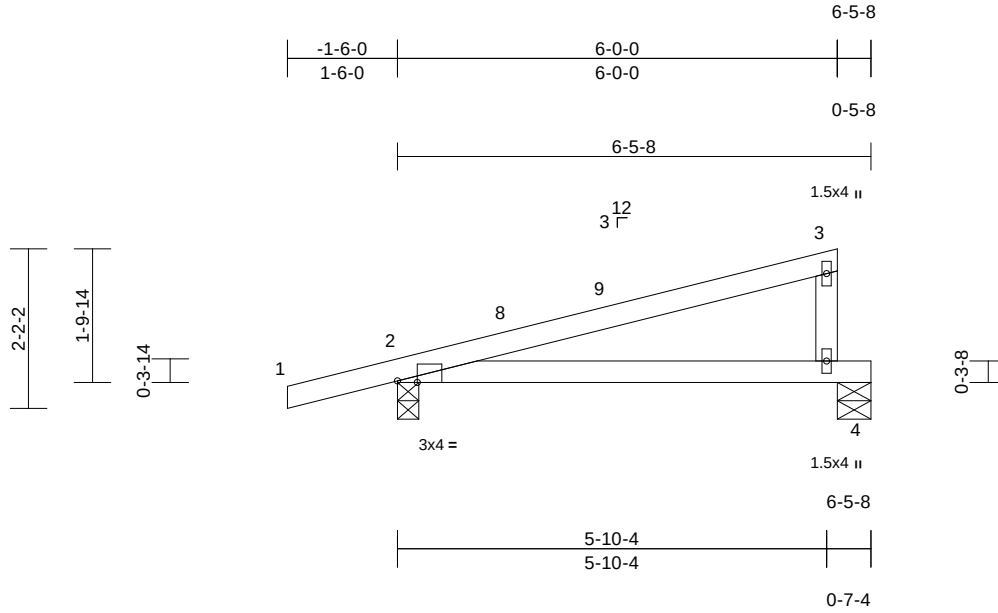
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642045
0825-016	M02	Monopitch	6	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:31.4

Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.40	Vert(LL)	0.07	4-7	>944	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.10	4-7	>669	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/TPI2014	Matrix-AS							
										Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 4=0-5-8
Max Horiz 2=47 (LC 11)
Max Uplift 2=-68 (LC 12), 4=-23 (LC 12)
Max Grav 2=336 (LC 1), 4=223 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

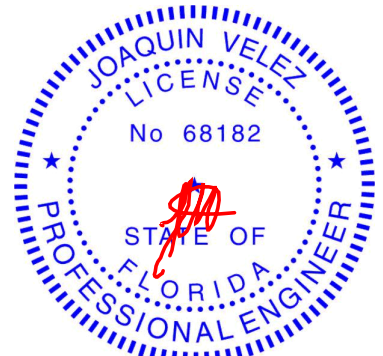
TOP CHORD 1-2=0/22, 2-3=-132/42, 3-4=-150/204
BOT CHORD 2-4=-87/153

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=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-10-4 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.
- 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 23 lb uplift at joint 4 and 68 lb uplift at joint 2.
- 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



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

September 25,2025

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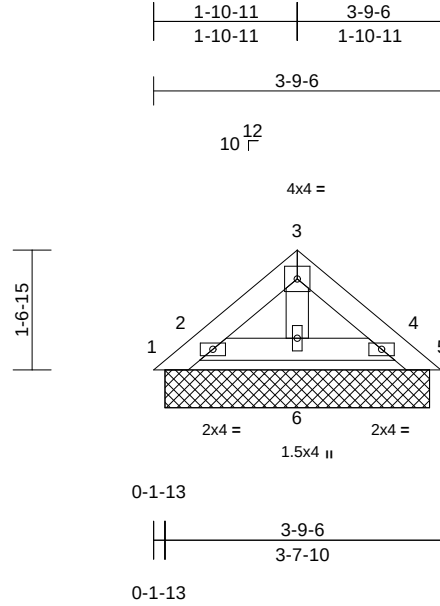
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642046
0825-016	PB01	Piggyback	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:30.3

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=3-5-13, 2=3-5-13, 4=3-5-13,
5=3-5-13, 6=3-5-13
Max Horiz 1=28 (LC 11)
Max Uplift 1=-26 (LC 10), 4=-4 (LC 12), 5=-6 (LC 18)
Max Grav 1=20 (LC 11), 2=134 (LC 17),
4=116 (LC 1), 5=3 (LC 12), 6=60 (LC 3)

FORCES

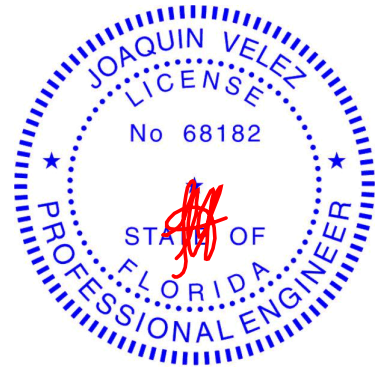
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-33/49, 2-3=-59/40, 3-4=-59/40,
4-5=-6/25
BOT CHORD 2-6=-3/46, 4-6=-3/46

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 4 lb uplift at joint 4, 26 lb uplift at joint 1, 6 lb uplift at joint 5 and 4 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

September 25,2025

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

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

MiTek®

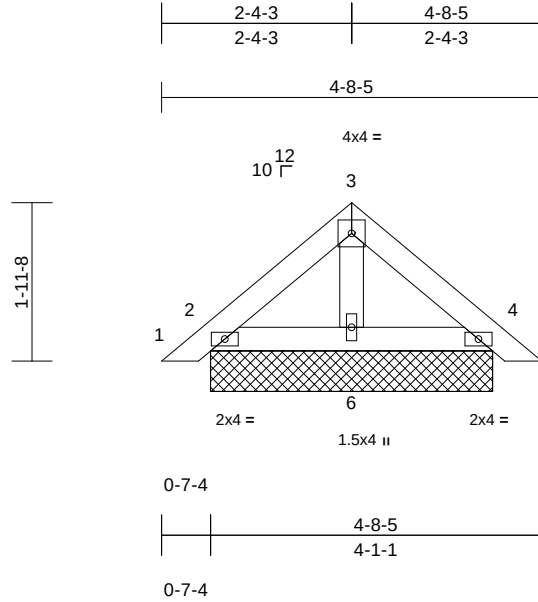
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642047
0825-016	PB02	Piggyback	31	1	Job Reference (optional)	

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Sep 24 13:46:47
ID:HHGMtHU_2NERlqepvndb3jyozJgRfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=3-5-13, 4=3-5-13, 6=3-5-13
Max Horiz 2=-35 (LC 10)
Max Uplift 2=-16 (LC 12), 4=-16 (LC 12)
Max Grav 2=100 (LC 1), 4=100 (LC 1), 6=123 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

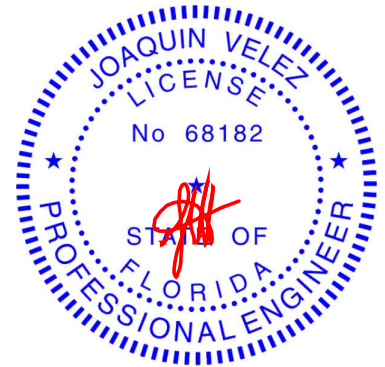
TOP CHORD 1-2=0/15, 2-3=-52/57, 3-4=-50/52, 4-5=0/15
BOT CHORD 2-6=-9/57, 4-6=-9/57
WEBS 3-6=-51/9

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 16 lb uplift at joint 2, 16 lb uplift at joint 4, 16 lb uplift at joint 2 and 16 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

September 25, 2025

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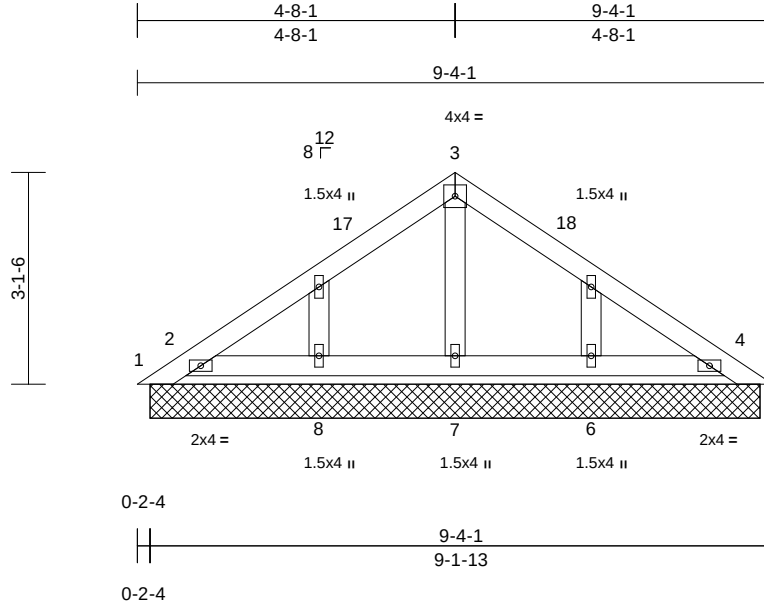
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642048
0825-016	PB03	Piggyback	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:33.9

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 35 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=8-11-9, 2=8-11-9, 4=8-11-9,
5=8-11-9, 6=8-11-9, 7=8-11-9,
8=8-11-9
Max Horiz 1=54 (LC 11)
Max Uplift 1=-152 (LC 17), 2=-52 (LC 12),
4=-59 (LC 12), 5=-128 (LC 24)
Max Grav 1=38 (LC 9), 2=398 (LC 17), 4=380
(LC 1), 5=38 (LC 12), 6=93 (LC 3),
7=74 (LC 3), 8=94 (LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

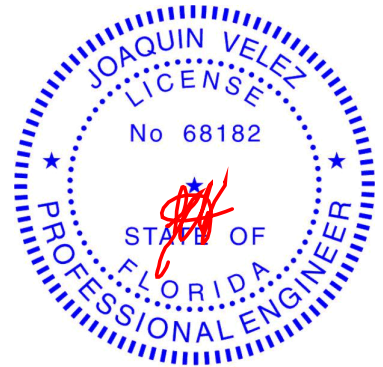
TOP CHORD 1-2=-54/137, 2-3=-245/133, 3-4=-245/120,
4-5=-66/92
BOT CHORD 2-8=-9/154, 7-8=0/154, 6-7=0/154,
4-6=-15/154

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=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-9-7 to 3-9-7,
Zone1 3-9-7 to 5-2-5, Zone3 5-2-5 to 9-7-4 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 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 52 lb uplift at joint
2, 59 lb uplift at joint 4, 152 lb uplift at joint 1, 128 lb uplift
at joint 5, 52 lb uplift at joint 2 and 59 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.

LOAD CASE(S) Standard



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

September 25,2025

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

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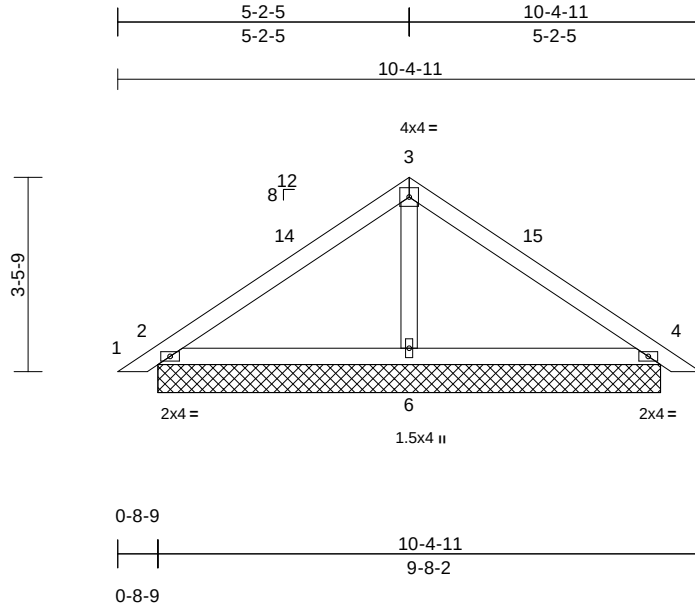
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Gary Farley	T38642049
0825-016	PB04	Piggyback	16	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:41.1

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	0.18	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=8-11-9, 4=8-11-9, 6=8-11-9
Max Horiz	2=-60 (LC 10)
Max Uplift	2=-23 (LC 12), 4=-23 (LC 12)
Max Grav	2=214 (LC 1), 4=214 (LC 1), 6=343 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

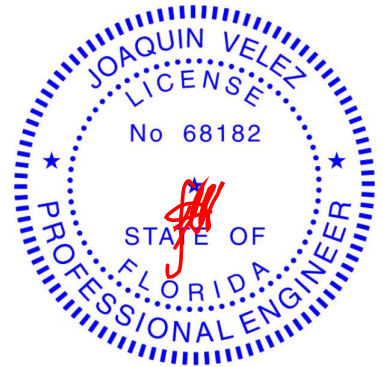
TOP CHORD	1-2=0/15, 2-3=-122/83, 3-4=-122/89, 4-5=0/15
BOT CHORD	2-6=-13/72, 4-6=-14/72
WEBS	3-6=-192/58

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-2 to 3-3-2, Zone1 3-3-2 to 5-2-5, Zone2 5-2-5 to 9-2-14, Zone1 9-2-14 to 10-1-8 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 23 lb uplift at joint 2, 23 lb uplift at joint 4, 23 lb uplift at joint 2 and 23 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

September 25,2025

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

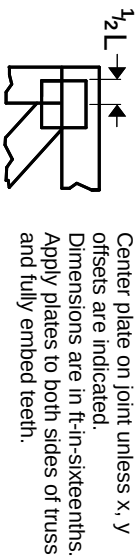
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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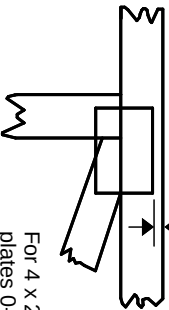
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

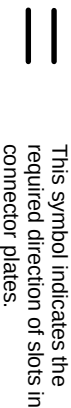
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

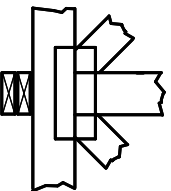
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

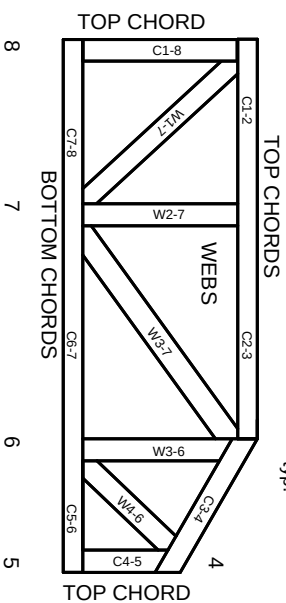
Industry Standards:

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

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.