



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

RE: 0526-031 - SHANE MORRISON

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: SHANE & ANDREA MORRISON Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: FORT WHITE State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.

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

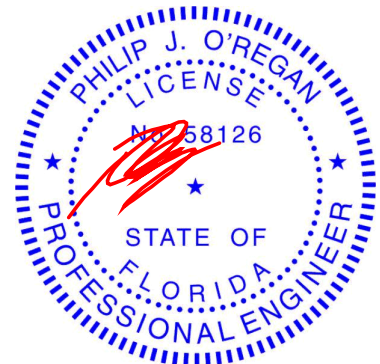
No.	Seal#	Truss Name	Date
1	T41293938	A01	5/22/26
2	T41293939	A02	5/22/26
3	T41293940	A02A	5/22/26
4	T41293941	A03	5/22/26
5	T41293942	A04	5/22/26
6	T41293943	A05	5/22/26
7	T41293944	A06	5/22/26
8	T41293945	B01	5/22/26
9	T41293946	B02	5/22/26
10	T41293947	G01	5/22/26
11	T41293948	M01	5/22/26
12	T41293949	M02	5/22/26

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

Truss Design Engineer's Name: O'Regan, Philip

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

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

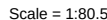


Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 22, 2026

O'Regan, Philip

1 of 1

Page: 1

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/TP1 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.sbsccomponents.com)

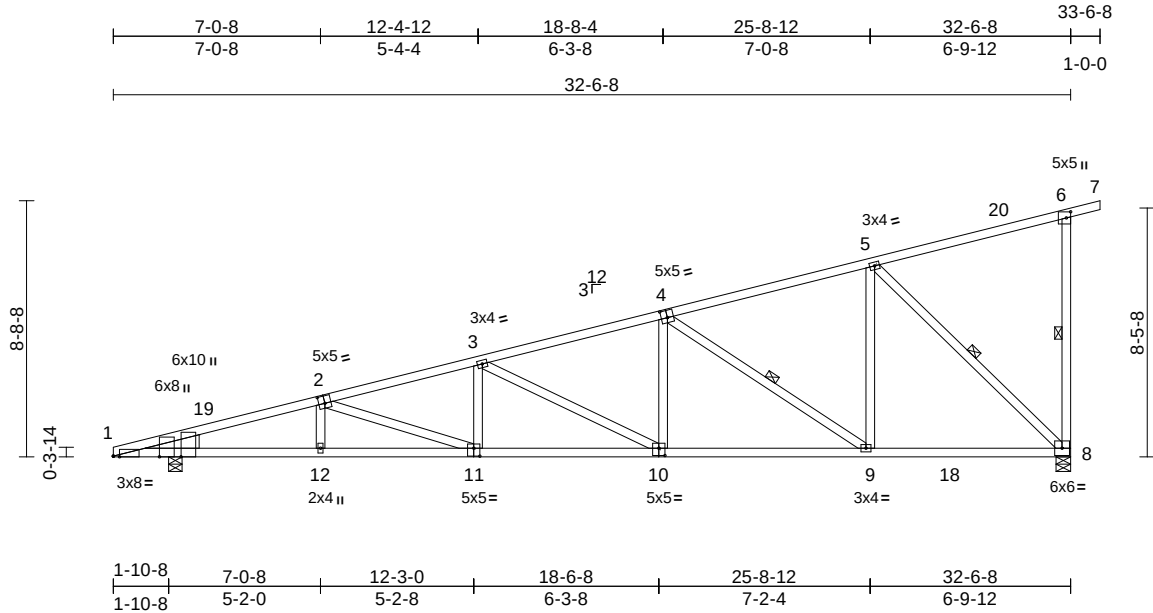
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293939
0526-031	A02	Monopitch	24	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:52
ID:ndS0VANSM7VjB9O6_q3xrzF_aF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCdoi7J4zJC?f

Page: 1



Scale = 1:78.3

Plate Offsets (X, Y): [1:0-2-8,Edge], [1:0-0-4,Edge], [1:0-0-4,Edge], [2:0-2-8,0-3-0], [4:0-2-8,0-3-0], [6:0-2-8,0-1-12], [10:0-2-8,0-3-0], [11:0-2-8,0-3-4]

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	0.86	Vert(LL)	-0.24	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.45	11-12	>867	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 1-11:2x4 SP 2850F 2.0E
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8, 4-9, 5-8

REACTIONS

(size) 1=0-5-8, 8=0-6-0
Max Horiz 1=402 (LC 9)
Max Uplift 1=-281 (LC 12), 8=-333 (LC 12)
Max Grav 1=1484 (LC 17), 8=1412 (LC 17)

FORCES

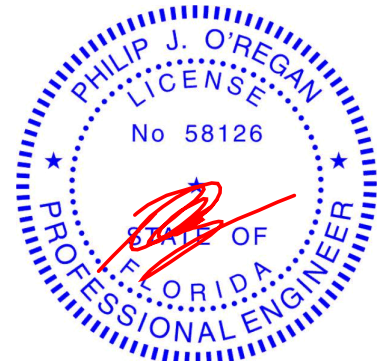
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-8=-242/274, 1-3=-3075/722,
3-5=-2275/578, 5-6=-218/178, 6-7=-17/0
BOT CHORD 1-12=-1010/2996, 9-12=-1015/3034,
8-9=-429/1194
WEBS 5-9=-123/994, 2-12=-135/109, 3-11=0/261,
4-10=-41/631, 4-9=-1241/326,
5-8=-1576/408, 3-10=-890/257, 2-11=-24/93

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-3-1,
Zone1 3-3-1 to 33-6-8 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 333 lb uplift at joint
8 and 281 lb uplift at joint 1.
- 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



Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 22,2026

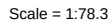
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:53 Page: 1
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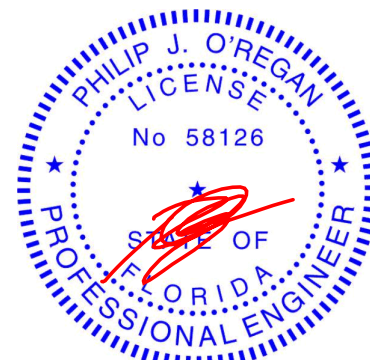


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	0.21	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.43	15-16	>915	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.16	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 208 lb	FT = 20%

- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-3-1,
Zone1 3-3-1 to 33-6-8 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
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 333 lb uplift at joint
9 and 281 lb uplift at joint 1.
- 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

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



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Date:

May 22, 2026



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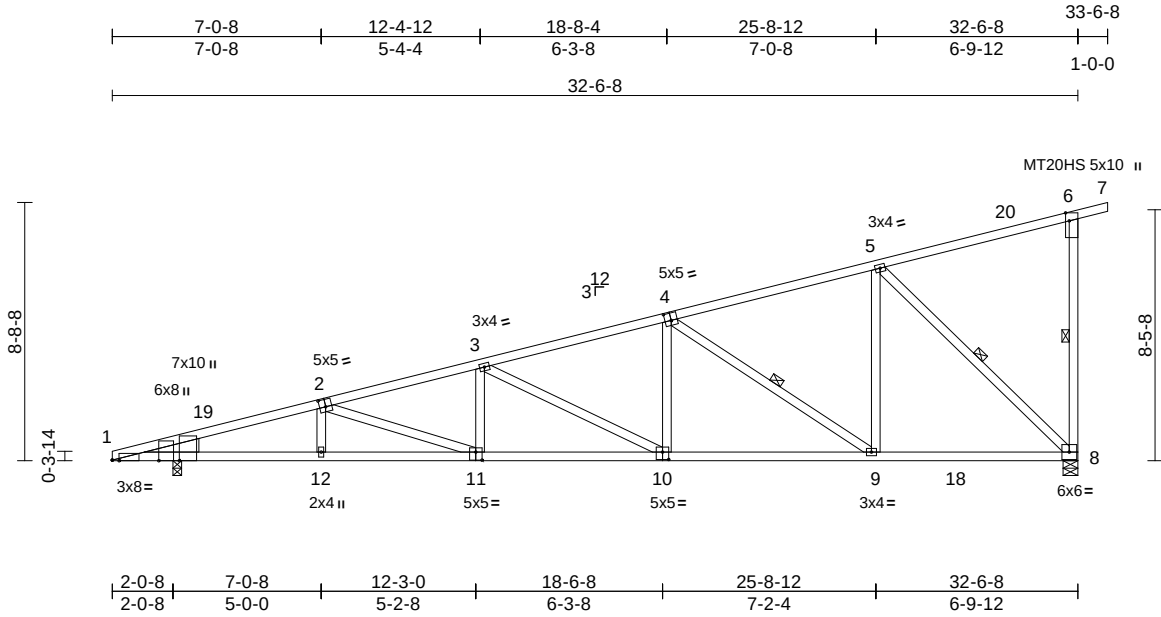
Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293941
0526-031	A03	Monopitch	5	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:53

Page: 1

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Scale = 1:77.6

Plate Offsets (X, Y): [1:0-2-12,Edge], [1:0-0-4,Edge], [1:0-0-4,Edge], [2:0-2-8,0-3-0], [4:0-2-8,0-3-0], [6:0-3-4,Edge], [10:0-2-8,0-3-0], [11:0-2-8,0-3-4]

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	0.95	Vert(LL)	0.29	11-12	>999	240	MT20HS 187/143
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.46	11-12	>847	180	MT20 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.10	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 181 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 1-11:2x4 SP 2850F 2.0E
WEBS	2x4 SP No.2
WEDGE	Left: 2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 6-8, 4-9, 5-8
REACTIONS	(size) 1=0-3-8, 8=0-6-0
	Max Horiz 1=402 (LC 9)
	Max Uplift 1=-561 (LC 12), 8=-575 (LC 12)
	Max Grav 1=1701 (LC 17), 8=1587 (LC 17)

FORCES

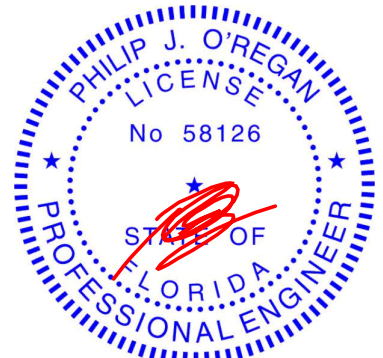
TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	6-8=-241/316, 1-3=-3454/1281,
	3-5=-2579/1010, 5-6=-268/236, 6-7=-17/0
BOT CHORD	1-12=-1494/3237, 9-12=-1503/3376,
	8-9=-583/1302
WEBS	5-9=-269/1096, 2-12=-164/170, 3-11=0/244,
	4-10=-115/674, 4-9=-1407/570,
	5-8=-1790/707, 3-10=-996/429, 2-11=-25/185

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Partially Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-3-1, Zone1 3-3-1 to 33-6-8 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
- 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 MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 8 and 561 lb uplift at joint 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 22,2026

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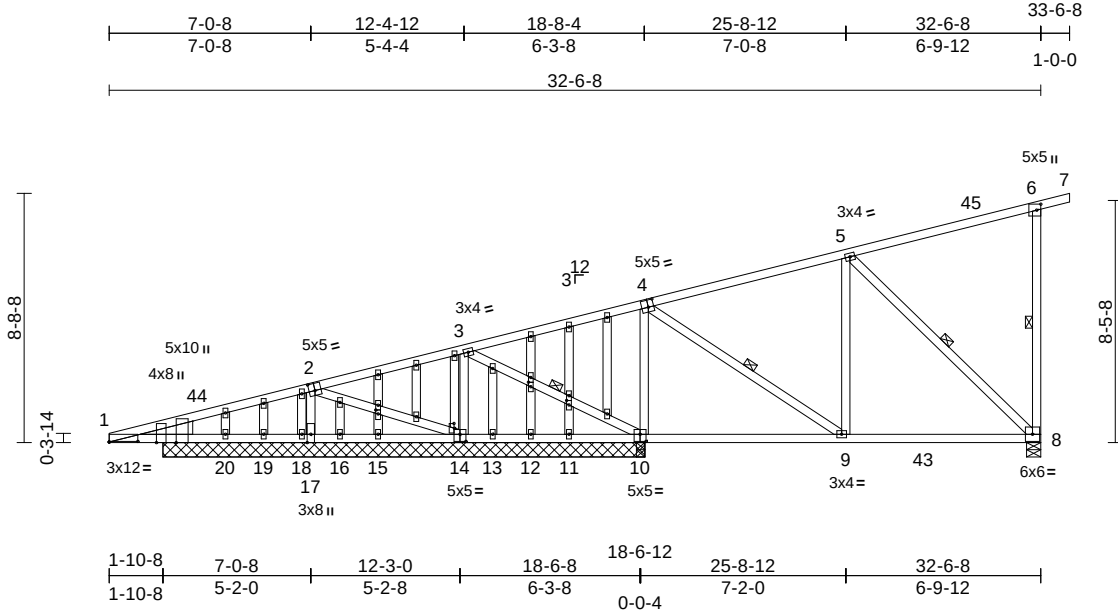
Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293942
0526-031	A04	Monopitch Structural Gable	2	1	Job Reference (optional)	

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

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Page: 1

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Scale = 1:80.5

[1:1-0-0,0-0-4], [1:0-0-4,Edge], [1:0-0-4,Edge], [2:0-2-8,0-0-3], [4:0-2-4,0-0-3], [6:0-2-8,0-1-12], [10:0-2-8,0-0-3], [14:0-2-8,0-0-3], [23:0-1-14,0-1-0], [25:0-1-14,0-1-0], Plate Offsets (X, Y): [28:0-2-0,0-0-3], [32:0-1-11,0-1-0]

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	0.61	Vert(LL)	-0.07	8-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.11	8-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	-0.05	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 216 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 14-1:2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8, 5-8, 4-9, 3-10

REACTIONS (size)
1=16-10-0, 8=0-6-0, 10=16-10-0, 11=16-10-0, 12=16-10-0, 13=16-10-0, 14=16-10-0, 15=16-10-0, 16=16-10-0, 17=16-10-0, 18=16-10-0, 19=16-10-0, 20=16-10-0
Max Horiz 1=424 (LC 31)
Max Uplift 1=-1131 (LC 33), 8=-750 (LC 34), 10=-545 (LC 33), 11=-16 (LC 3), 14=-445 (LC 33), 17=-1184 (LC 33), 18=-143 (LC 28), 19=-226 (LC 37), 20=-782 (LC 28)
Max Grav 1=1295 (LC 32), 8=863 (LC 29), 10=918 (LC 17), 11=3 (LC 31), 12=94 (LC 3), 13=17 (LC 16), 14=482 (LC 30), 15=101 (LC 16), 16=26 (LC 3), 17=1182 (LC 30), 18=159 (LC 37), 19=289 (LC 32), 20=770 (LC 37)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-8=-242/274, 1-3=-2751/2517, 3-5=-2849/2663, 5-6=-1644/1506, 6-7=-17/0

BOT CHORD 1-20=-2055/1826, 19-20=-1591/1363, 18-19=-1051/822, 17-18=-510/282, 16-17=-571/368, 15-16=-1140/909, 13-15=-2298/2067, 12-13=-1554/1354, 11-12=-2040/1894, 9-11=-3100/2900, 8-9=-841/817
WEBS 4-10=-1464/1197, 5-8=-1149/982, 5-9=-668/827, 4-9=-1257/1491, 2-17=-1173/1132, 2-14=-1814/1821, 3-14=-1114/1072, 3-10=-1364/1361

NOTES

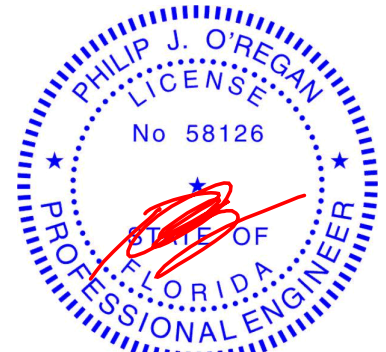
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-3-1, Zone1 3-3-1 to 33-6-8 zone; cantilever 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 750 lb uplift at joint 8, 445 lb uplift at joint 14, 545 lb uplift at joint 10, 1184 lb uplift at joint 17, 1131 lb uplift at joint 1, 16 lb uplift at joint 11, 143 lb uplift at joint 18, 226 lb uplift at joint 19, 782 lb uplift at joint 20 and 1131 lb uplift at joint 1.

- This truss has been designed for a total wind drag load of 6756 lb. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 1-10-8 to 18-6-8 for 405.4 plf.

- 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



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

May 22,2026

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

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

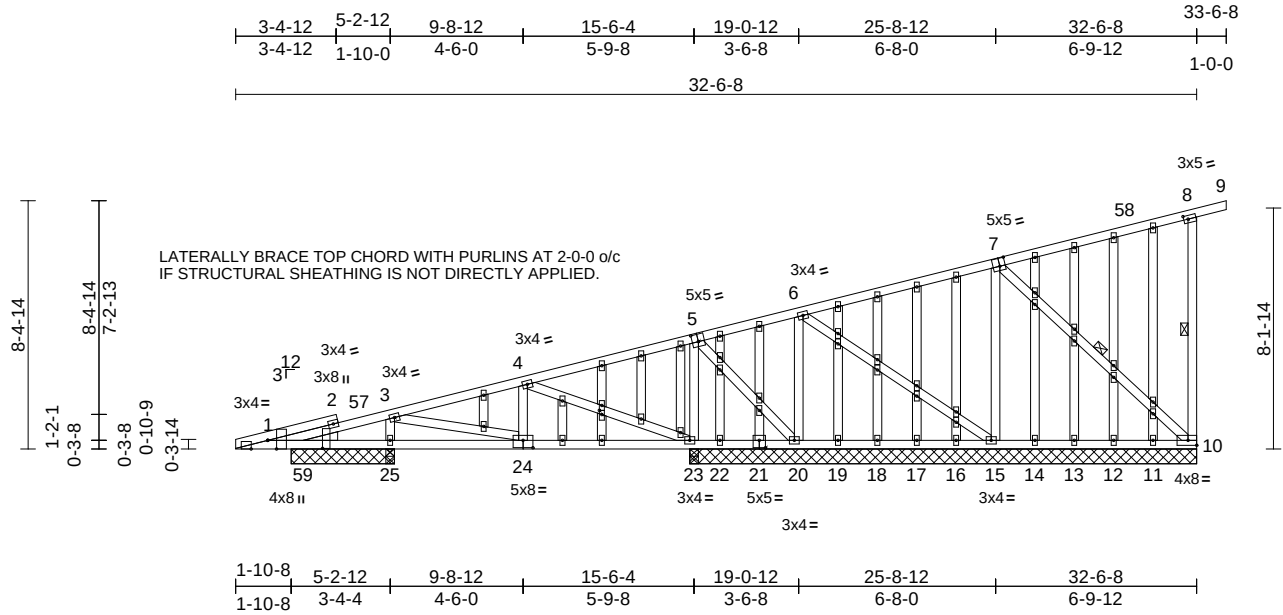
Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293943
0526-031	A05	Monopitch Structural Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:54

Page: 1

ID:QeT1?kaDDJ?PAh7IRoPQY9zEz9c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:78

Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-3-4,1-10-4], [1:0-6-12,Edge], [5:0-2-8,0-3-0], [7:0-2-4,0-3-4], [8:0-1-12,0-1-8], [21:0-2-8,0-3-0], [24:0-4-0,0-3-0], [50:0-1-11,0-1-0]

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)	-0.02	23-24	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.05	23-24	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.01	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 281 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
WEDGE Left: 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 8-10, 7-10

REACTIONS (size)
1=3-6-0, 10=17-2-0, 11=17-2-0,
12=17-2-0, 13=17-2-0, 14=17-2-0,
15=17-2-0, 16=17-2-0, 17=17-2-0,
18=17-2-0, 19=17-2-0, 20=17-2-0,
22=17-2-0, 23=17-2-0, 25=3-6-0
Max Horiz 1=385 (LC 9)
Max Uplift 1=16 (LC 12), 10=212 (LC 9),
11=146 (LC 13), 12=22 (LC 11),
15=150 (LC 12), 20=115 (LC 12),
22=63 (LC 17), 23=117 (LC 12),
25=129 (LC 12)
Max Grav 1=134 (LC 18), 10=300 (LC 19),
11=210 (LC 11), 12=66 (LC 19),
13=66 (LC 16), 14=84 (LC 16),
15=402 (LC 1), 16=54 (LC 3),
17=52 (LC 16), 18=60 (LC 3),
19=30 (LC 16), 20=318 (LC 1),
22=10 (LC 12), 23=798 (LC 17),
25=624 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=452/366, 3-4=549/156, 4-6=301/318,
6-8=228/179, 8-9=17/0, 8-10=235/272

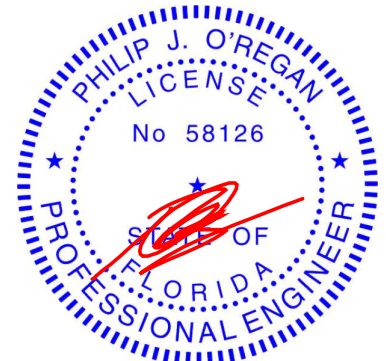
BOT CHORD 1-25=-181/99, 23-25=-359/482,
22-23=-256/127, 20-22=-256/127,
19-20=-205/140, 18-19=-205/140,
17-18=-205/140, 16-17=-205/140,
15-16=-205/140, 14-15=-209/195,
13-14=-209/195, 12-13=-209/195,
11-12=-209/195, 10-11=-209/195
WEBS 5-23=-381/146, 3-25=-479/246,
3-24=-183/492, 4-24=-8/133, 4-23=-588/154,
7-10=-47/91, 6-20=-349/150, 5-20=0/139,
6-15=-1/84, 7-15=-418/210

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 1-1-5 to 4-4-6, Zone1 4-4-6 to 33-6-8 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 10, 117 lb uplift at joint 23, 129 lb uplift at joint 25, 115 lb uplift at joint 20, 150 lb uplift at joint 15, 146 lb uplift at joint 11, 22 lb uplift at joint 12, 63 lb uplift at joint 22 and 16 lb uplift at joint 1.
- 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



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

May 22,2026

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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MiTek®

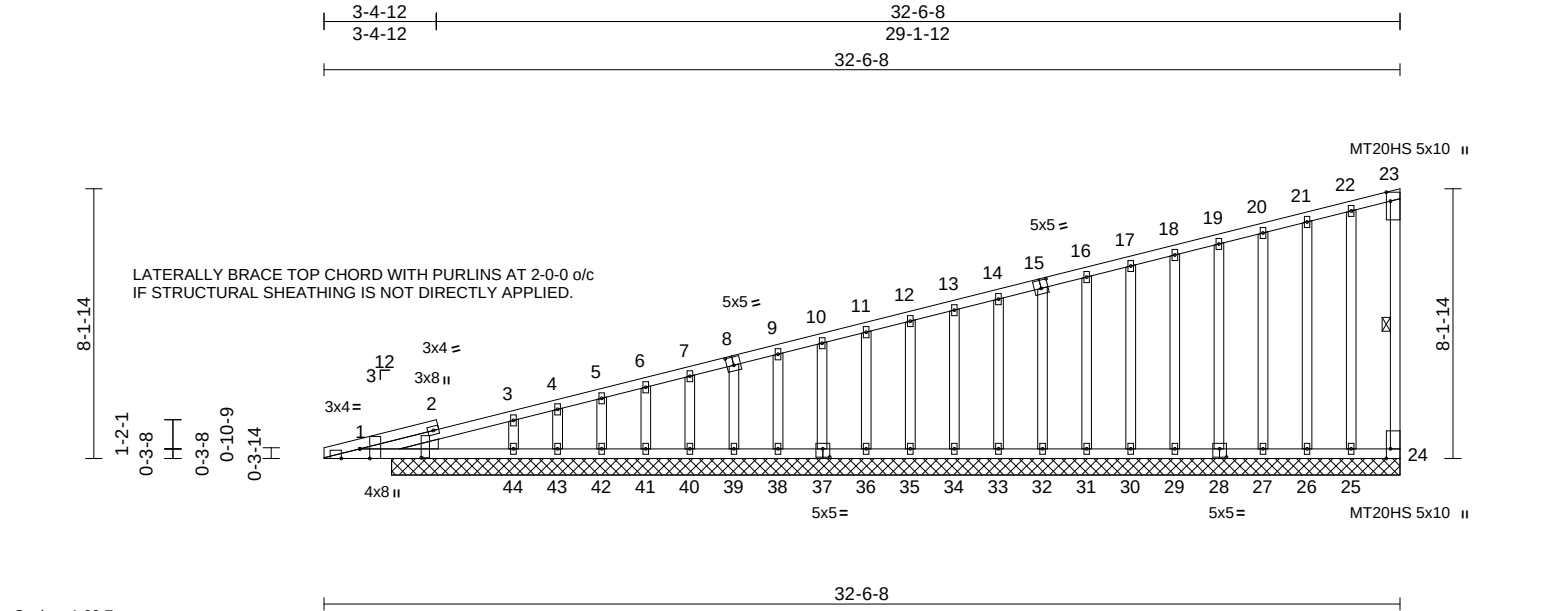
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293944
0526-031	A06	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:55
ID:30OHsb4xrkmbi_cgDZQ4PzEz3p-RfC?PsB70Hq3NSgPqnl8w3uITXbGKWrCDoi7J4zJC?f

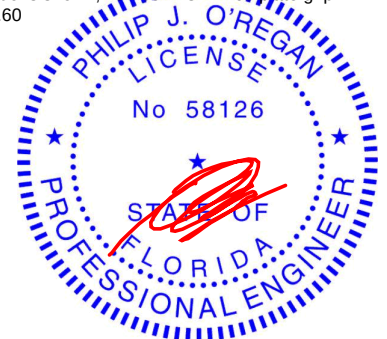
Page: 1



Scale = 1:69.7												
Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-3-4,1-10-4], [1:0-6-12,Edge], [8:0-2-8,0-3-0], [15:0-2-8,0-3-0], [23:0-3-4,Edge], [24:0-3-8,Edge], [28:0-2-8,0-3-0], [37:0-2-8,0-3-0]												
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	0.76	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(TL)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	24	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 236 lb	FT = 20%

LUMBER		Max Grav	1=164 (LC 18), 24=63 (LC 13), 25=152 (LC 18), 26=114 (LC 19), 27=115 (LC 18), 28=112 (LC 17), 29=113 (LC 17), 30=112 (LC 17), 31=116 (LC 17), 32=113 (LC 17), 33=109 (LC 17), 34=113 (LC 17), 35=113 (LC 17), 36=112 (LC 17), 37=112 (LC 17), 38=115 (LC 17), 39=112 (LC 17), 40=112 (LC 17), 41=105 (LC 17), 42=148 (LC 17), 43=5 (LC 12), 44=408 (LC 17)	WEBS	22-25=-193/192, 21-26=-98/152, 20-27=-86/134, 19-28=-86/130, 18-29=-86/128, 17-30=-86/129, 16-31=-89/131, 15-32=-86/133, 14-33=-82/121, 13-34=-86/131, 12-35=-86/129, 11-36=-86/128, 10-37=-86/130, 9-38=-88/129, 8-39=-86/132, 7-40=-85/125, 6-41=-82/126, 5-42=-108/155, 4-43=0/23, 3-44=-295/389
TOP CHORD	2x4 SP No.2				
BOT CHORD	2x4 SP No.2				
WEBS	2x4 SP No.2				
OTHERS	2x4 SP No.2				
WEDGE	Left: 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				
REACTIONS	(size)	1=30-6-0, 24=30-6-0, 25=30-6-0, 26=30-6-0, 27=30-6-0, 28=30-6-0, 29=30-6-0, 30=30-6-0, 31=30-6-0, 32=30-6-0, 33=30-6-0, 34=30-6-0, 35=30-6-0, 36=30-6-0, 37=30-6-0, 38=30-6-0, 39=30-6-0, 40=30-6-0, 41=30-6-0, 42=30-6-0, 43=30-6-0, 44=30-6-0			
	Max Horiz	1=376 (LC 11)			
	Max Uplift	1=-12 (LC 12), 24=-53 (LC 11), 25=-103 (LC 12), 26=-35 (LC 9), 27=-69 (LC 12), 28=-45 (LC 12), 29=-50 (LC 12), 30=-49 (LC 12), 31=-50 (LC 12), 32=-51 (LC 12), 33=-45 (LC 12), 34=-50 (LC 12), 35=-49 (LC 12), 36=-49 (LC 12), 37=-50 (LC 12), 38=-49 (LC 12), 39=-51 (LC 12), 40=-47 (LC 12), 41=-48 (LC 12), 42=-60 (LC 12), 43=-47 (LC 18), 44=-164 (LC 12)			
			FORCES		
			(lb) - Maximum Compression/Maximum Tension		
			TOP CHORD		
			1-3=-827/414, 3-4=-727/360, 4-5=-720/368, 5-6=-679/351, 6-7=-645/339, 7-9=-610/326, 9-10=-541/302, 10-11=-507/289, 11-12=-472/277, 12-13=-436/264, 13-14=-401/251, 14-16=-368/239, 16-17=-298/214, 17-18=-262/202, 18-19=-227/189, 19-20=-221/202, 20-21=-234/238, 21-22=-251/279, 22-23=-210/248, 23-24=-176/232		
			BOT CHORD		
			1-44=-254/310, 43-44=-252/308, 42-43=-252/308, 41-42=-252/308, 40-41=-252/308, 39-40=-252/308, 38-39=-253/310, 36-38=-254/311, 35-36=-254/311, 34-35=-254/311, 33-34=-254/311, 32-33=-254/311, 31-32=-255/313, 30-31=-255/313, 29-30=-255/313, 27-29=-255/313, 26-27=-255/313, 25-26=-255/313, 24-25=-255/313		

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=2ft; Cat. II; Exp C; 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



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

May 22,2026

Continued on page 2

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

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

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON
0526-031	A06	Monopitch Supported Gable	1	1	T41293944
					Job Reference (optional)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 1-4-0 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 53 lb uplift at joint 24, 12 lb uplift at joint 1, 103 lb uplift at joint 25, 35 lb uplift at joint 26, 69 lb uplift at joint 27, 45 lb uplift at joint 28, 50 lb uplift at joint 29, 49 lb uplift at joint 30, 50 lb uplift at joint 31, 51 lb uplift at joint 32, 45 lb uplift at joint 33, 50 lb uplift at joint 34, 49 lb uplift at joint 35, 49 lb uplift at joint 36, 50 lb uplift at joint 37, 49 lb uplift at joint 38, 51 lb uplift at joint 39, 47 lb uplift at joint 40, 48 lb uplift at joint 41, 60 lb uplift at joint 42, 47 lb uplift at joint 43 and 164 lb uplift at joint 44.
- 11) N/A
- 12) 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

⚠ 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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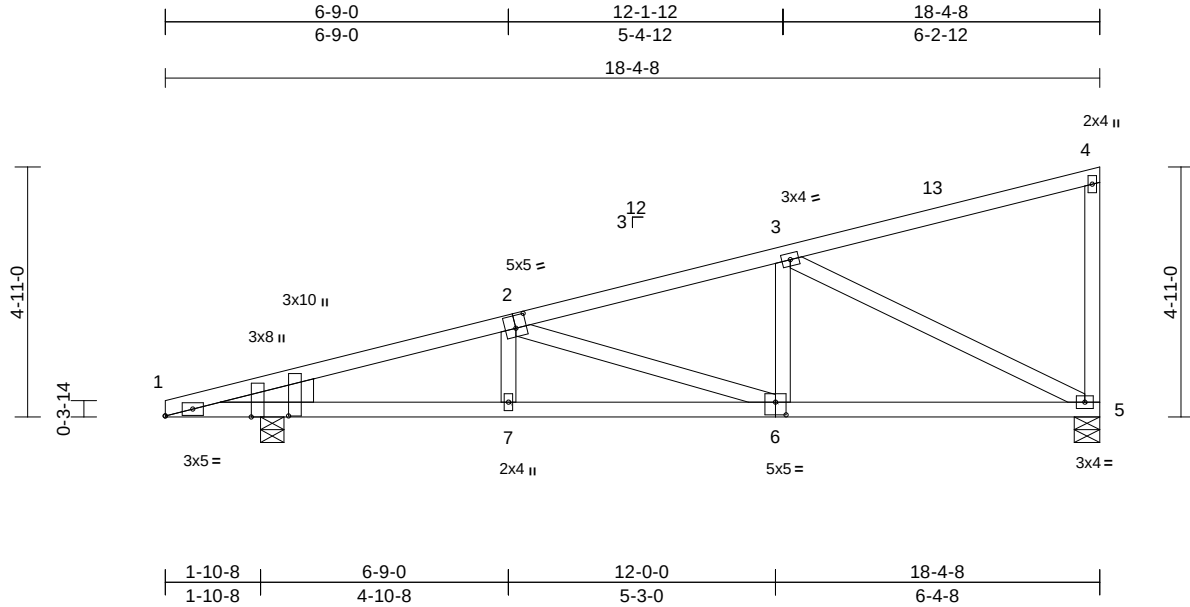
Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293945
0526-031	B01	Monopitch	16	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:55

Page: 1

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Scale = 1:45.3

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

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	0.42	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.14	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING

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

REACTIONS

(size) 1=0-5-8, 5=0-6-0
Max Horiz 1=188 (LC 12)
Max Uplift 1=-148 (LC 12), 5=-165 (LC 12)
Max Grav 1=813 (LC 1), 5=646 (LC 1)

FORCES

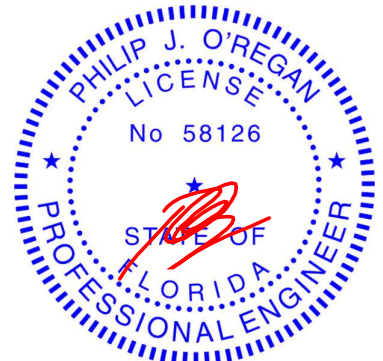
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-153/193, 1-3=-1297/372, 3-4=-76/13
BOT CHORD 1-7=-549/1216, 5-7=-553/1216
WEBS 3-5=-969/426, 2-7=0/111, 2-6=-331/168, 3-6=0/348

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 2-11-0, Zone1 2-11-0 to 18-2-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 165 lb uplift at joint 5 and 148 lb uplift at joint 1.
- 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



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

May 22,2026

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MiTek®

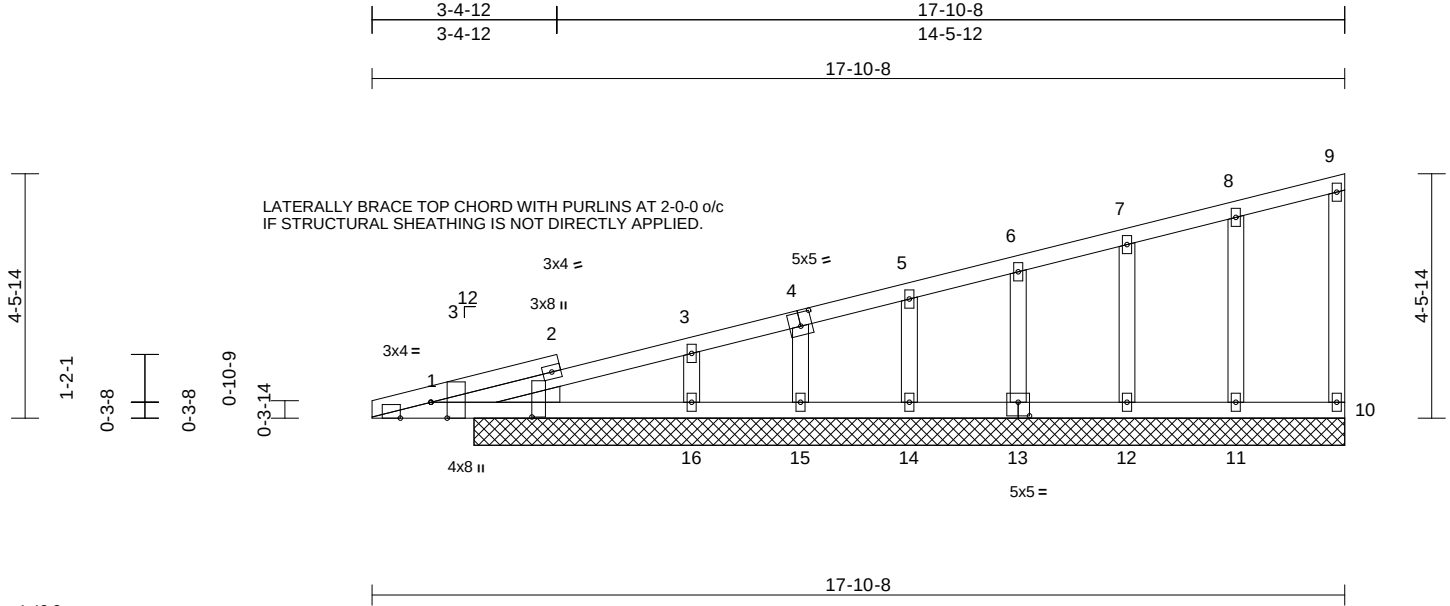
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293946
0526-031	B02	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:55
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Page: 1



Scale = 1:42.3

Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-3-4,1-10-4], [1:0-6-12,Edge], [4:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 85 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
WEDGE	Left: 2x4 SP No.2

BRACING

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

REACTIONS

(size)	1=16-0-0, 10=16-0-0, 11=16-0-0, 12=16-0-0, 13=16-0-0, 14=16-0-0, 15=16-0-0, 16=16-0-0
Max Horiz	1=165 (LC 12)
Max Uplift	1=-4 (LC 12), 10=-17 (LC 12), 11=-39 (LC 12), 12=-40 (LC 12), 13=-38 (LC 12), 14=-44 (LC 12), 15=-22 (LC 12), 16=-81 (LC 12)
Max Grav	1=160 (LC 23), 10=62 (LC 23), 11=167 (LC 1), 12=160 (LC 23), 13=154 (LC 1), 14=185 (LC 23), 15=64 (LC 1), 16=377 (LC 23)

FORCES

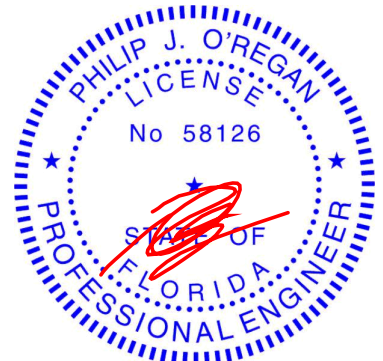
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-317/100, 3-5=-228/60, 5-6=-152/45, 6-7=-109/33, 7-8=-64/21, 8-9=-18/7, 9-10=-46/62
BOT CHORD	1-16=-4/4, 15-16=-4/2, 14-15=-2/1, 12-14=-2/1, 11-12=-2/1, 10-11=-2/1
WEBS	8-11=-125/165, 7-12=-120/160, 6-13=-116/155, 5-14=-137/177, 4-15=-55/93, 3-16=-274/319

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0" o.c.
- 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 17 lb uplift at joint 10, 39 lb uplift at joint 11, 40 lb uplift at joint 12, 38 lb uplift at joint 13, 44 lb uplift at joint 14, 22 lb uplift at joint 15, 81 lb uplift at joint 16 and 4 lb uplift at joint 1.
- N/A
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 22,2026

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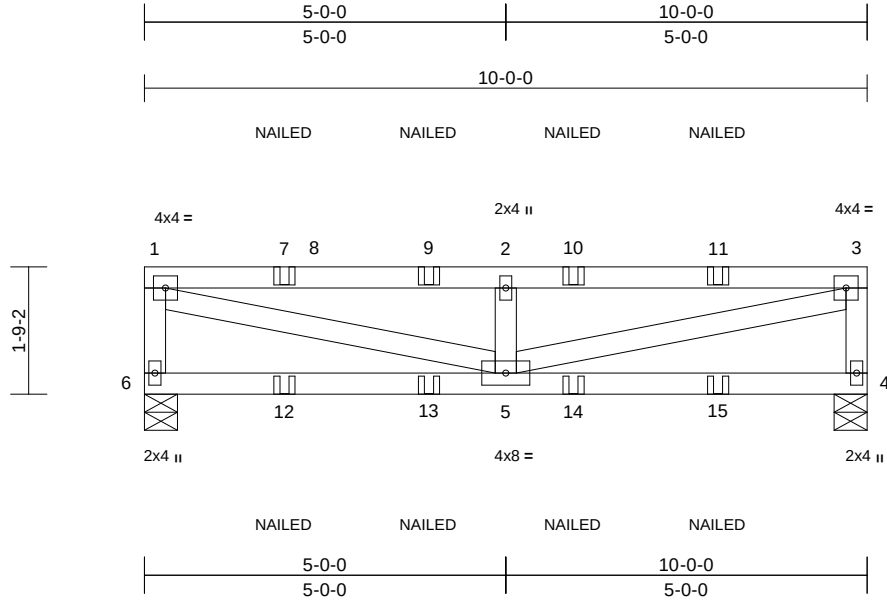
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON	T41293947
0526-031	G01	Flat Girder	1	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu May 21 15:28:56
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Page: 1



Scale = 1:31.9

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	0.28	Vert(LL)	0.02	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 49 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 or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS

(size) 4=0-5-8, 6=0-5-8
Max Horiz 6=-71 (LC 4)
Max Uplift 4=-110 (LC 5), 6=-111 (LC 4)
Max Grav 4=408 (LC 1), 6=408 (LC 1)

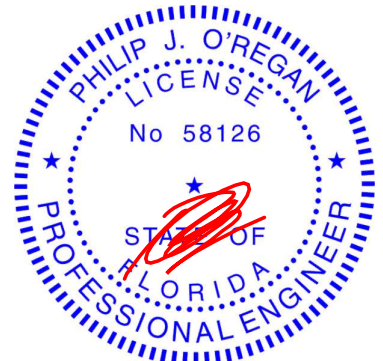
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-352/133, 1-2=-787/210, 2-3=-787/210, 3-4=-352/133
BOT CHORD 5-6=-66/90, 4-5=-32/68
WEBS 1-5=-212/757, 2-5=-323/189, 3-5=-211/757

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 6 and 110 lb uplift at joint 4.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-1 (B), 9=-1 (B), 10=-1 (B), 11=-1 (B), 12=-8 (B), 13=-8 (B), 14=-8 (B), 15=-8 (B)



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Date:

May 22,2026

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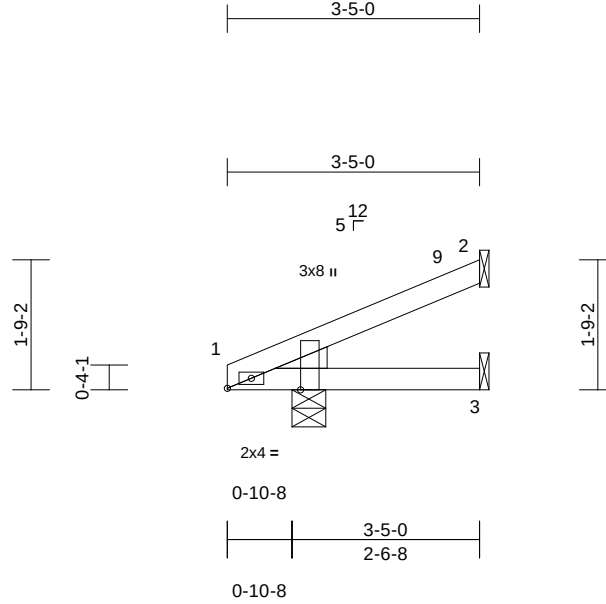
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON
0526-031	M01	Jack-Open	4	1	T41293948
					Job Reference (optional)

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

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Page: 1



Scale = 1:31.2

Plate Offsets (X, Y): [1:0-1-14,0-0-10], [1:0-0-4,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	0.08	Vert(LL)	0.00	4	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	4	>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: 12 lb FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 22 lb uplift at joint 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

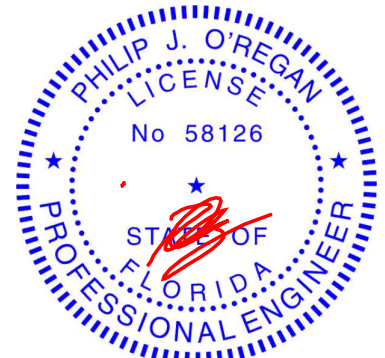
REACTIONS (size) 1=0-5-8, 2= Mechanical, 3= Mechanical
Max Horiz 1=58 (LC 12)
Max Uplift 1=-22 (LC 12), 2=-36 (LC 12)
Max Grav 1=182 (LC 1), 2=58 (LC 1), 3=41 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-47/26
BOT CHORD 1-3=-90/33

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 3-4-4 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.



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Date:

May 22,2026

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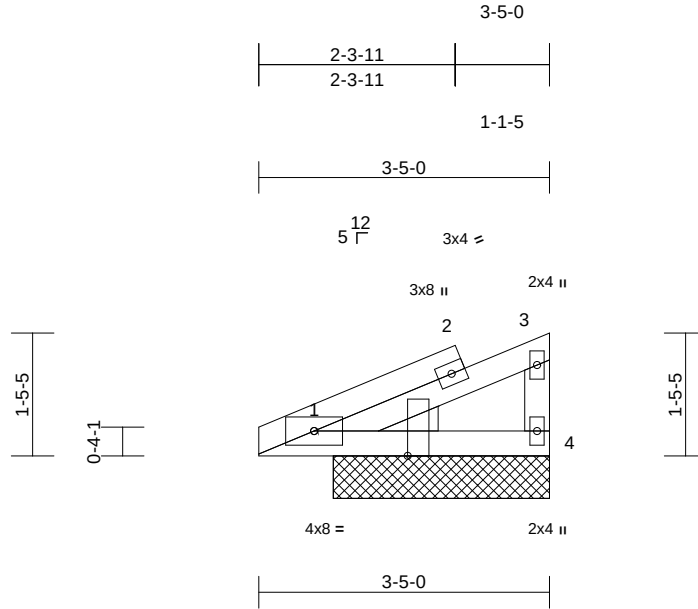
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SHANE MORRISON
0526-031	M02	Jack-Open Supported Gable	2	1	T41293949
					Job Reference (optional)

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

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Page: 1



Scale = 1:27.1

Plate Offsets (X, Y): [1:0-3-8,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	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
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-MP							Weight: 16 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=2-6-8, 4=2-6-8
Max Horiz 1=38 (LC 12)
Max Uplift 1=-16 (LC 12), 4=-29 (LC 12)
Max Grav 1=105 (LC 1), 4=105 (LC 1)

FORCES

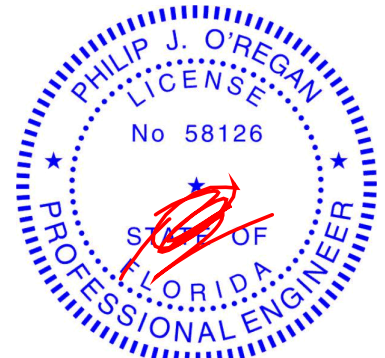
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-77/30, 3-4=-83/189
BOT CHORD 1-4=-2/2

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 29 lb uplift at joint 4 and 16 lb uplift at joint 1.

LOAD CASE(S) Standard



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Date:

May 22,2026

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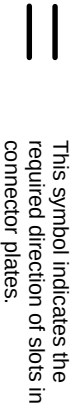
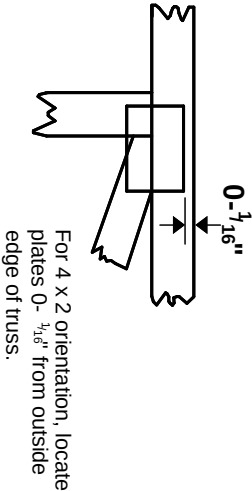
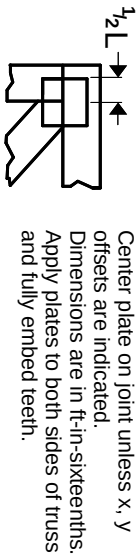
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Symbols

PLATE LOCATION AND ORIENTATION



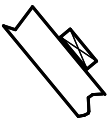
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

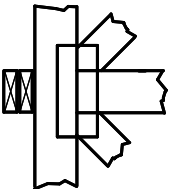
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

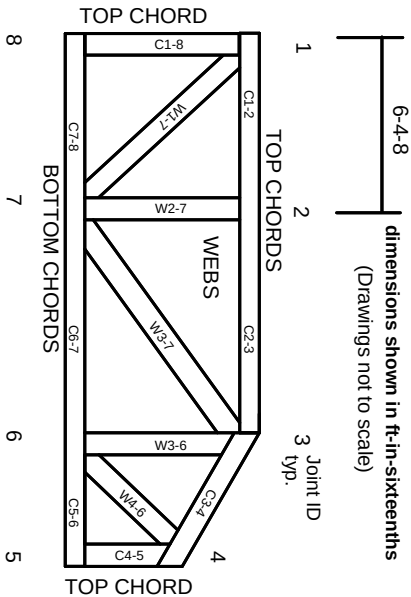
BEARING



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/TPI 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



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

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

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