



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

RE: 1023-006 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: N/A Design Program: N/A
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: N/A psf

This package includes 25 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.

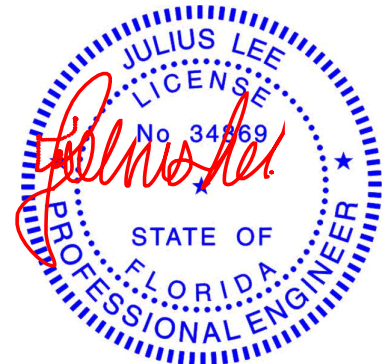
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T32125082	A01	11/16/23	T32125104	J07		11/16/23
2	T32125083	A02	11/16/23	T32125105	J08		11/16/23
3	T32125084	A03	11/16/23	T32125106	J09		11/16/23
4	T32125085	A04	11/16/23				
5	T32125086	A05	11/16/23				
6	T32125087	A06	11/16/23				
7	T32125088	A07	11/16/23				
8	T32125089	A7A	11/16/23				
9	T32125090	A08	11/16/23				
10	T32125091	B01	11/16/23				
11	T32125092	B02	11/16/23				
12	T32125093	B03	11/16/23				
13	T32125094	B04	11/16/23				
14	T32125095	CJ01	11/16/23				
15	T32125096	CJ02	11/16/23				
16	T32125097	H01	11/16/23				
17	T32125098	J01	11/16/23				
18	T32125099	J02	11/16/23				
19	T32125100	J03	11/16/23				
20	T32125101	J04	11/16/23				
21	T32125102	J05	11/16/23				
22	T32125103	J06	11/16/23				

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: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023

Lee, Julius

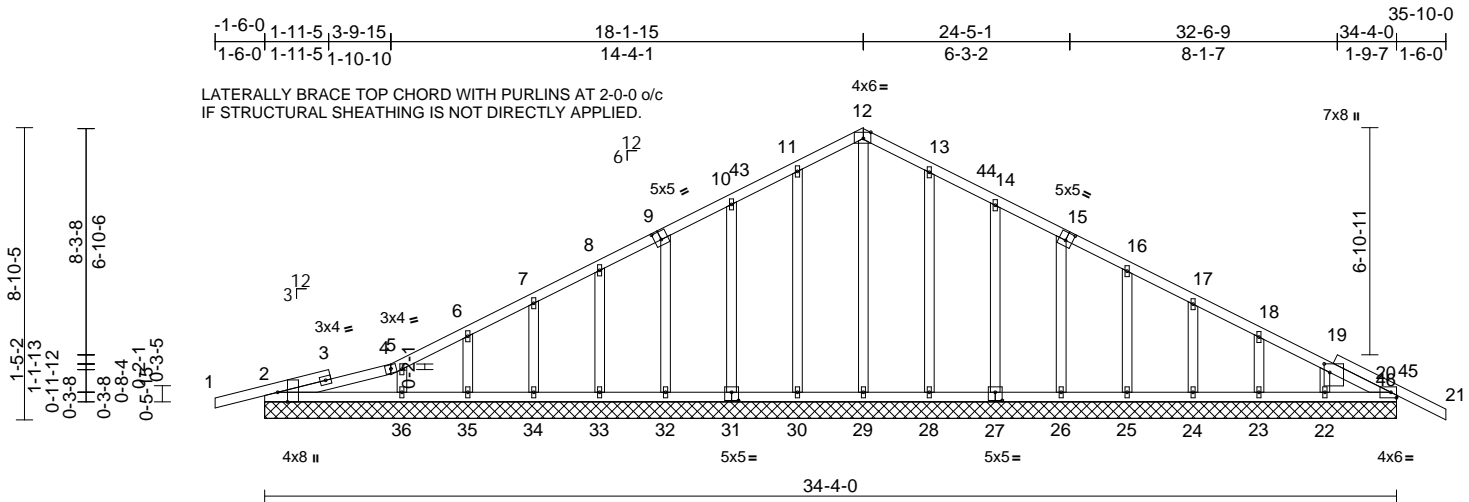
1 of 1

Job	Truss	Truss Type	Qty	Ply	
1023-006	A01	Roof Special Supported Gable	1	1	T32125082
Job Reference (optional)					

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

Run: 8.72 S Sep 21 2023 Print: 8.720 S Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:22
ID:C4YoUTi3tjHJqVcJQOFFEYXBCb-hGk47OgWkUIQPtsuobklglVtGYunrKEOKfBmFyImbp

Page: 1



LATERALLY BRACE TOP CHORD WITH PURLINS AT 2-0-0 o/c
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.

Scale = 1:69.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [9:0-2-8,0-3-0], [12:0-2-11,Edge], [15:0-2-8,0-3-0], [19:0-3-2,0-2-0], [27:0-2-8,0-3-0], [31:0-2-8,0-3-0]

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	0.18	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	40	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 208 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

(lb/size) 2=251/34-4-0, 20=184/34-4-0,
22=141/34-4-0, 23=164/34-4-0,
24=161/34-4-0, 25=151/34-4-0,
26=159/34-4-0, 27=168/34-4-0,
28=162/34-4-0, 29=152/34-4-0,
30=162/34-4-0, 31=168/34-4-0,
32=160/34-4-0, 33=147/34-4-0,
34=176/34-4-0, 35=104/34-4-0,
36=300/34-4-0, 37=251/34-4-0,
40=184/34-4-0
Max Horiz 2=145 (LC 11), 37=145 (LC 11)
Max Uplift 2=-35 (LC 12), 20=-33 (LC 12),
23=-13 (LC 12), 24=-12 (LC 12),
25=-9 (LC 12), 26=-11 (LC 12),
27=-17 (LC 12), 28=-7 (LC 12),
30=-5 (LC 12), 31=-17 (LC 12),
32=-11 (LC 12), 33=-9 (LC 12),
34=-11 (LC 12), 35=-19 (LC 12),
37=-35 (LC 12), 40=-33 (LC 12)
Max Grav 2=251 (LC 1), 20=185 (LC 24),
22=146 (LC 18), 23=164 (LC 24),
24=161 (LC 1), 25=151 (LC 1),
26=159 (LC 24), 27=168 (LC 1),
28=165 (LC 24), 29=152 (LC 1),
30=165 (LC 23), 31=168 (LC 1),
32=160 (LC 23), 33=147 (LC 1),
34=176 (LC 1), 35=110 (LC 17),
36=300 (LC 1), 37=251 (LC 1),
40=185 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum
Tension

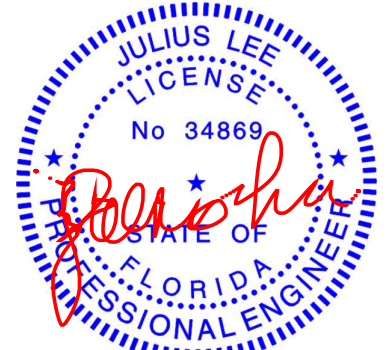
TOP CHORD

1-2=0/22, 2-3=-91/88, 3-4=-93/101,
4-5=-80/110, 5-6=-109/98, 6-7=-91/92,
7-8=-85/80, 8-9=-75/96, 9-10=-68/128,
10-11=-80/155, 11-12=-74/165,
11-12=-96/193, 12-13=-97/184,
13-14=-74/152, 14-15=-80/143,
14-15=-60/116, 15-16=-43/84, 16-17=-40/53,
17-18=-46/35, 18-19=-48/39, 19-20=-75/51,
20-21=-0/36, 21-22=-0/34
BOT CHORD 2-36=-47/99, 35-36=-47/99, 34-35=-47/99,
33-34=-47/99, 32-33=-47/99, 31-32=-49/101,
30-31=-49/101, 29-30=-49/101,
28-29=-49/101, 27-28=-49/101,
26-27=-49/101, 25-26=-46/99, 24-25=-46/99,
23-24=-46/99, 22-23=-46/99, 20-22=-46/99,
20-26=-5/45, 20-46=-5/45
WEBS 12-29=-112/23, 11-30=-125/96,
10-31=-128/69, 9-32=-119/50, 8-33=-109/47,
7-34=-129/52, 6-35=-96/51, 5-36=-196/44,
13-28=-125/98, 14-27=-128/70,
15-26=-119/50, 16-25=-111/47,
17-24=-122/52, 18-23=-122/50,
19-22=-110/47

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Corner(3E) -1-6-0 to
1-11-3, Exterior(2N) 1-11-3 to 18-1-15, Corner(3R)
18-1-15 to 21-7-3, Exterior(2N) 21-7-3 to 35-10-0 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

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

Continued on page 3

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	
1023-006	A01	Roof Special Supported Gable	1	1	T32125082
					Job Reference (optional)

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 33 lb uplift at joint 20, 5 lb uplift at joint 30, 17 lb uplift at joint 31, 11 lb uplift at joint 32, 9 lb uplift at joint 33, 11 lb uplift at joint 34, 19 lb uplift at joint 35, 7 lb uplift at joint 28, 17 lb uplift at joint 27, 11 lb uplift at joint 26, 9 lb uplift at joint 25, 12 lb uplift at joint 24, 13 lb uplift at joint 23, 35 lb uplift at joint 2 and 33 lb uplift at joint 20.
- 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.**

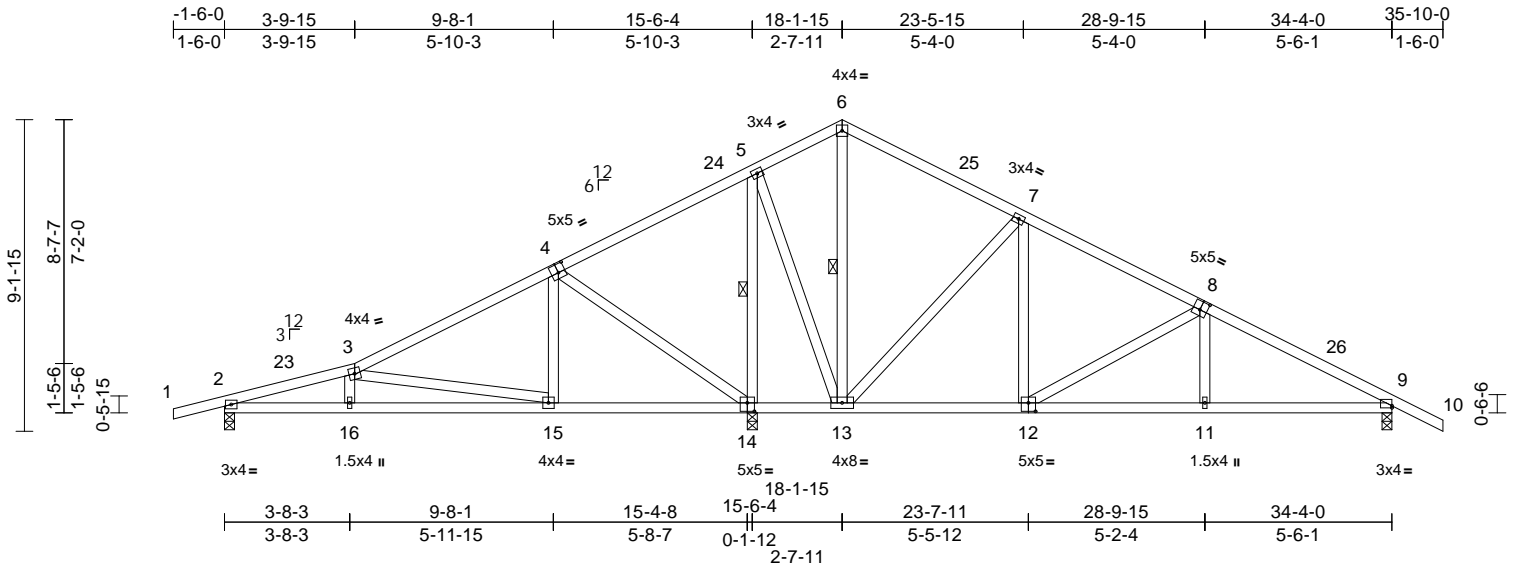
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Job	Truss	Truss Type	Qty	Ply	
1023-006	A02	Roof Special	3	1	T32125083
Job Reference (optional)					

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

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Page: 1



Scale = 1:67.8

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [9:Edge,0-0-12], [12:0-2-8,0-3-0], [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	0.45	Vert(LL)	-0.04	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 203 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 5-14, 6-13

REACTIONS (lb/size) 2=436/0-3-8, 9=630/0-3-8,
14=1861/0-3-8
Max Horiz 2=149 (LC 11)
Max Uplift 2=40 (LC 12), 9=39 (LC 12)
Max Grav 2=469 (LC 23), 9=704 (LC 24),
14=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

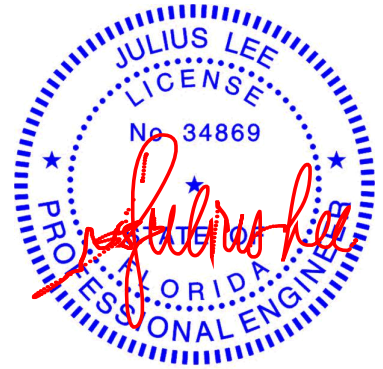
TOP CHORD 1-2=0/22, 2-23=-797/38, 3-23=-752/44,
3-4=-101/150, 4-24=0/586, 5-24=0/725,
5-6=0/299, 6-25=0/302, 7-25=-11/259,
7-8=-493/95, 8-26=-843/81, 9-26=-918/61,
9-10=0/40
BOT CHORD 2-16=-24/748, 15-16=-3/740, 14-15=-130/84,
13-14=-558/169, 12-13=-31/372,
11-12=0/751, 9-11=0/754
WEBS 3-16=0/183, 5-14=-1375/139, 6-13=-403/0,
7-13=-636/121, 7-12=0/396, 8-12=-441/79,
8-11=0/210, 4-15=0/359, 4-14=-667/108,
3-15=-724/90, 5-13=-33/992

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 35-10-0 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.
- 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.
- All bearings are assumed to be SP No.2 crushing
capacity of 565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 40 lb uplift at joint
2 and 39 lb uplift at joint 9.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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®

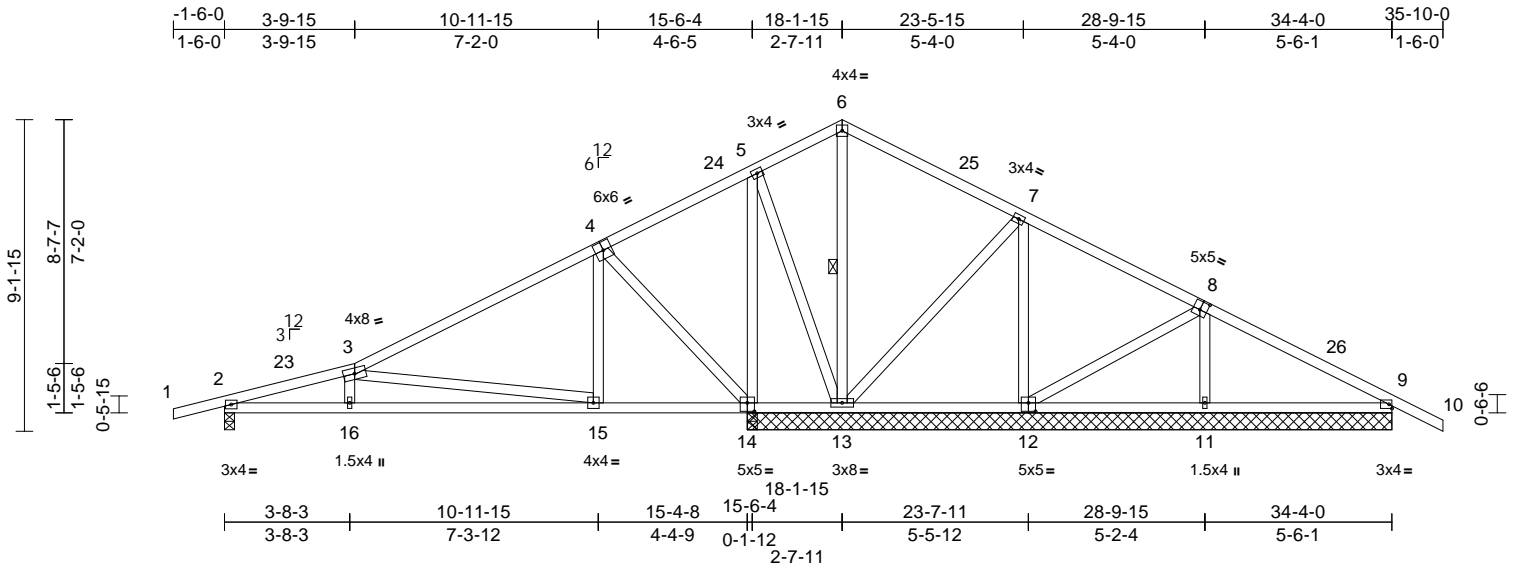
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	A03	Roof Special	1	1	T32125084
Job Reference (optional)					

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

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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	0.53	Vert(LL)	-0.08	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 205 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 6-13

REACTIONS (lb/size) 2=455/0-3-8, 9=325/18-11-8,
11=163/18-11-8, 12=207/18-11-8,
13=780/18-11-8, 14=996/18-11-8,
20=325/18-11-8
Max Horiz 2=149 (LC 11)
Max Uplift 2=-38 (LC 12), 9=-48 (LC 12),
11=-17 (LC 23), 14=-6 (LC 12),
20=-48 (LC 12)
Max Grav 2=455 (LC 1), 9=348 (LC 24),
11=258 (LC 24), 12=300 (LC 24),
13=780 (LC 1), 14=1003 (LC 23),
20=348 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-23=-813/36, 3-23=-768/44,
3-4=-25/261, 4-24=0/568, 5-24=0/665,
5-6=0/546, 6-25=0/568, 7-25=0/488,
7-8=0/291, 8-26=-130/57, 9-26=-197/38,
9-10=0/40
BOT CHORD 2-16=-6/773, 15-16=-8/762, 14-15=-153/104,
13-14=-551/174, 12-13=-244/122,
11-12=-9/120, 9-11=-5/117
WEBS 3-16=0/227, 4-15=0/384, 3-15=-887/114,
4-14=-652/106, 5-14=-476/42, 5-13=0/282,
6-13=-687/32, 7-13=-367/105, 7-12=-86/223,
8-12=-317/96, 8-11=-134/134

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 35-10-0 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.
- 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.
- All bearings are assumed to be SP No.2 crushing
capacity of 565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
2, 6 lb uplift at joint 14, 17 lb uplift at joint 11, 48 lb uplift
at joint 9 and 48 lb uplift at joint 9.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

November 16,2023

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

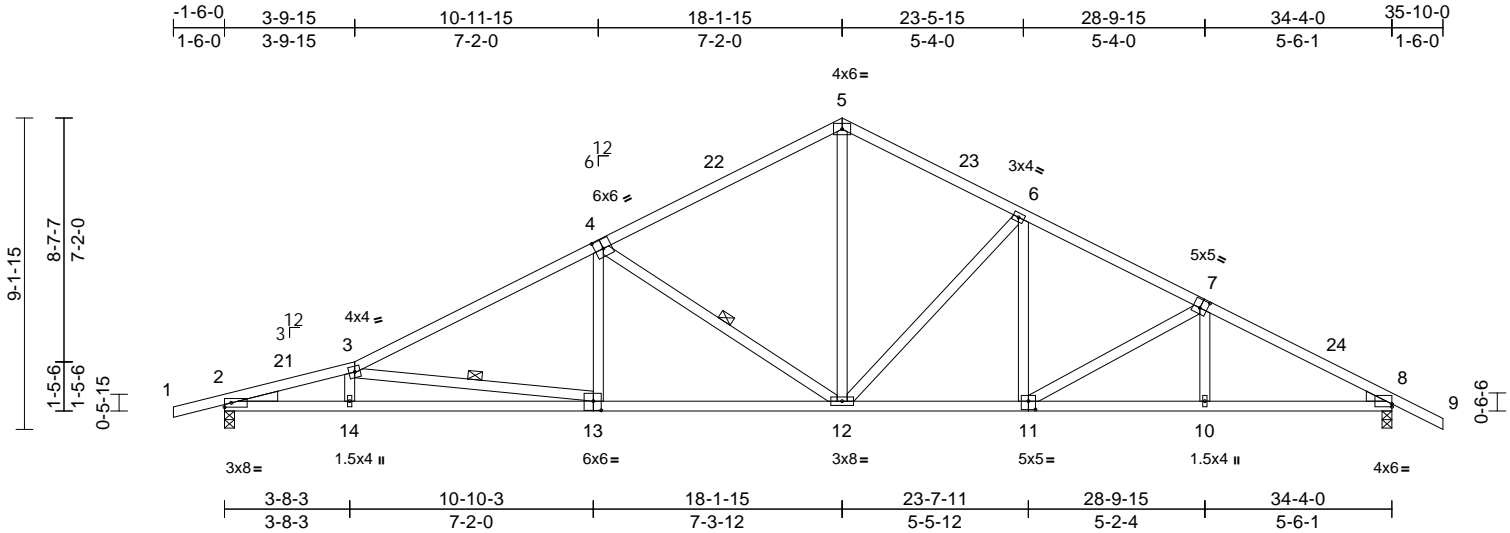
Job	Truss	Truss Type	Qty	Ply	
1023-006	A04	Roof Special	3	1	T32125085
Job Reference (optional)					

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:23

Page: 1

ID:Mjisp?Mxply40dSBB_Q1s4yXB7L-AUE6ITOIH1c92ZR3SW6_GtrXggjmWAnOF_OIjylmbo



Scale = 1:67.8

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [7:0-2-8,0-3-0], [8:Edge,0-1-0], [11:0-2-8,0-3-0], [13:0-2-12,0-3-4]

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	0.76	Vert(LL)	-0.25	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.53	13-14	>771	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 190 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 2-13:2x4 SP SS
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 3-13

REACTIONS

(lb/size) 2=1463/0-3-8, 8=1463/0-3-8
Max Horiz 2=149 (LC 11)
Max Uplift 2=-36 (LC 12), 8=-37 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-21=-3995/310, 3-21=-3973/319,
3-4=-2588/258, 4-22=-1705/223,
5-22=-1597/253, 5-23=-1597/257,
6-23=-1670/231, 6-7=-2115/246,
7-24=-2370/222, 8-24=-2462/195, 8-9=0/40
BOT CHORD 2-14=-262/3832, 13-14=-273/3845,
12-13=-107/2243, 11-12=-65/1827,
10-11=-124/2118, 8-10=-122/2120
WEBS 3-14=-102/97, 5-12=-89/1088,
6-12=-600/118, 6-11=0/343, 7-11=-353/69,
7-10=0/173, 4-13=0/539, 4-12=-982/161,
3-13=-1601/171

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 35-10-0 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.
- 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.
- Bearings are assumed to be: Joint 2 SP SS crushing
capacity of 565 psi, Joint 8 SP No.2 crushing capacity of
565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
2 and 37 lb uplift at joint 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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
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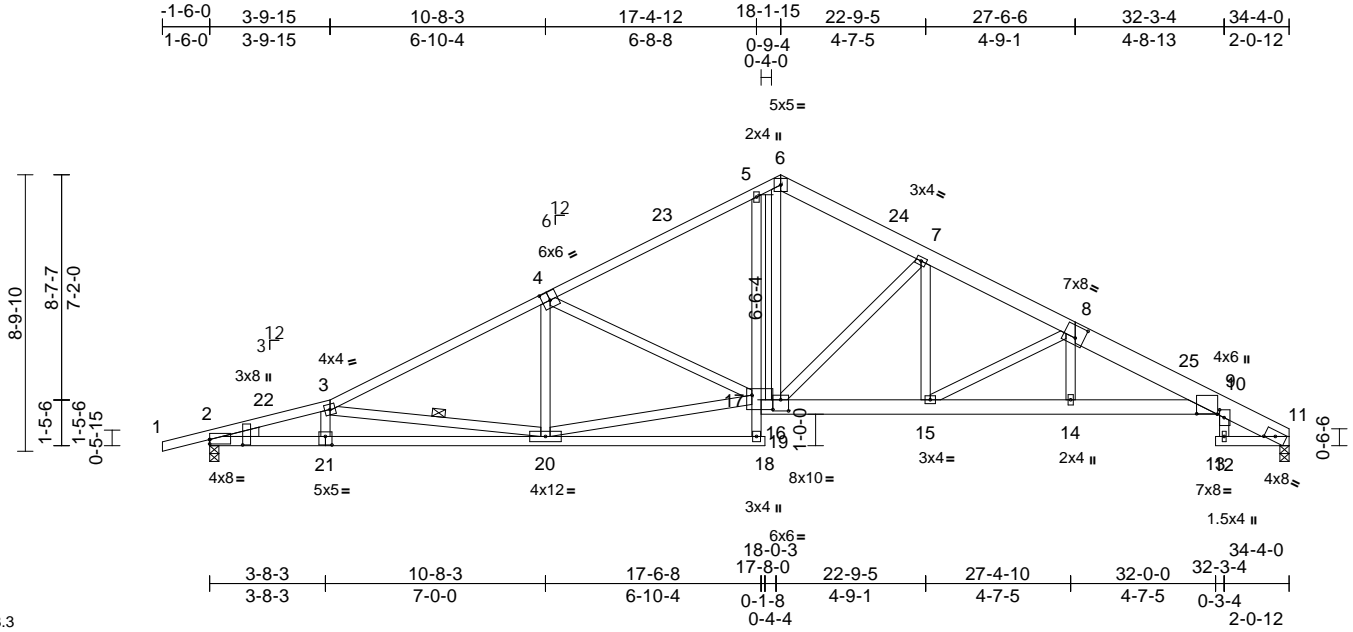
Job	Truss	Truss Type	Qty	Ply	
1023-006	A05	Roof Special	1	1	T32125086
Job Reference (optional)					

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

Run: 8.72 E Aug 20 2023 Print: 8.720 E Aug 20 2023 MiTek Industries, Inc. Thu Nov 16 11:09:17

Page: 1

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Scale = 1:73.3

Plate Offsets (X, Y): [2:Edge,0-1-10], [2:0-2-1,1-0-9], [4:0-3-0,0-3-4], [8:0-3-4,0-4-8], [9:0-7-14,0-0-2], [10:0-3-0,0-1-12], [11:0-4-0,0-1-15], [16:0-3-0,0-4-4], [17:0-8-0,0-5-8], [21:0-2-8,0-3-4]

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	0.96	Vert(LL)	-0.26	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.54	20-21	>756	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.29	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 233 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-8:2x6 SP No.2, 8-11:2x8 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2 *Except* 17-9:2x6 SP No.2, 21-18:2x4 SP No.1
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 2-2-0 oc bracing: 2-21.
 10-0-0 oc bracing: 17-19
 WEBS 1 Row at midpt 3-20

REACTIONS (lb/size) 2=1466/0-3-8, 11=1363/0-3-8
 Max Horiz 2=146 (LC 11)
 Max Uplift 2=39 (LC 12)

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

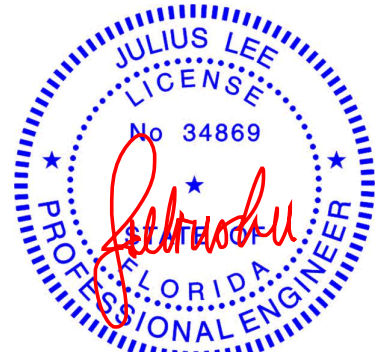
TOP CHORD 2-22=-4026/302, 3-22=-3992/310, 3-4=-2568/250, 4-23=-2020/219, 5-23=-1914/251, 5-6=-1771/292, 6-24=-1807/268, 7-24=-1907/246, 7-8=-2477/266, 8-25=-3331/302, 9-25=-3367/279, 10-11=-669/79
 BOT CHORD 2-21=-282/3811, 20-21=-291/3804, 19-20=-13/364, 16-17=0/1354, 15-16=-78/2130, 14-15=-201/3164, 9-14=-204/3150
 WEBS 3-20=-1580/159, 17-20=-125/1918, 4-17=-635/127, 6-16=-193/1186, 7-15=0/509, 7-16=-681/112, 8-14=0/288, 8-15=-1159/138

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R) 18-1-15 to 21-7-3, Interior (1) 21-7-3 to 34-2-4 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

November 16,2023

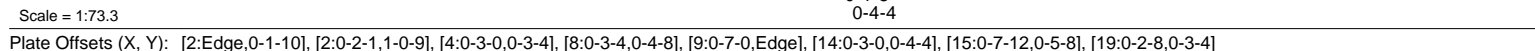
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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®

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.72 E Aug 20 2023 Print: 8.720 E Aug 20 2023 MiTek Industries, Inc. Thu Nov 16 11:10:18 Page: 1
ID:n3?xfGNWtQ6XSDsQ9izoQGvXB?1-s9KwNyfDejeRU0vDZURLZC8PUKv4o5k5 YdAhevlEJ



NUMBER
TOP CHORD 2x4 SP No.2 *Except* 6-8:2x6 SP No.2,
8-10:2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 *Except* 15-9:2x6 SP No.2,
19-16:2x4 SP No.1

WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing, Except:
2-2-0 oc bracing: 2-19.
10-0-0 oc bracing: 15-17

WEBS 1 Row at midpt 3-18

REACTIONS (lb/size) 2=1454/0-3-8, 10=1352/0-3-8
Max Horiz 2=146 (LC 11)
Max Uplift 2=-39 (LC 12)

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

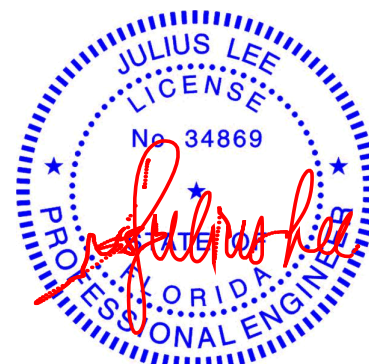
TOP CHORD 2-20=-3990/299, 3-20=-3955/307,
3-4=-2538/248, 4-21=-1988/217,
5-21=-1881/249, 5-6=-1741/290,
6-22=-1775/266, 7-22=-1889/243,
7-8=-2416/261, 8-23=-3194/291,
9-23=-3239/269, 9-10=-657/84
2-19=-278/3776, 18-19=-288/3769,
17-18=-13/362, 14-15=0/1326,
13-14=-74/2079, 12-13=-189/3019,
9-12=-191/3006

BOT CHORD 3-18=-1571/159, 15-18=-123/1894,
4-15=-637/128, 6-14=-192/1165, 7-13=0/476,
7-14=-654/109, 8-12=0/275, 8-13=-1053/129

WEBS

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 33-10-3 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) Bearing at joint(s) 10 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 39 lb uplift at joint
2

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023



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.sbcsccomponents.com)

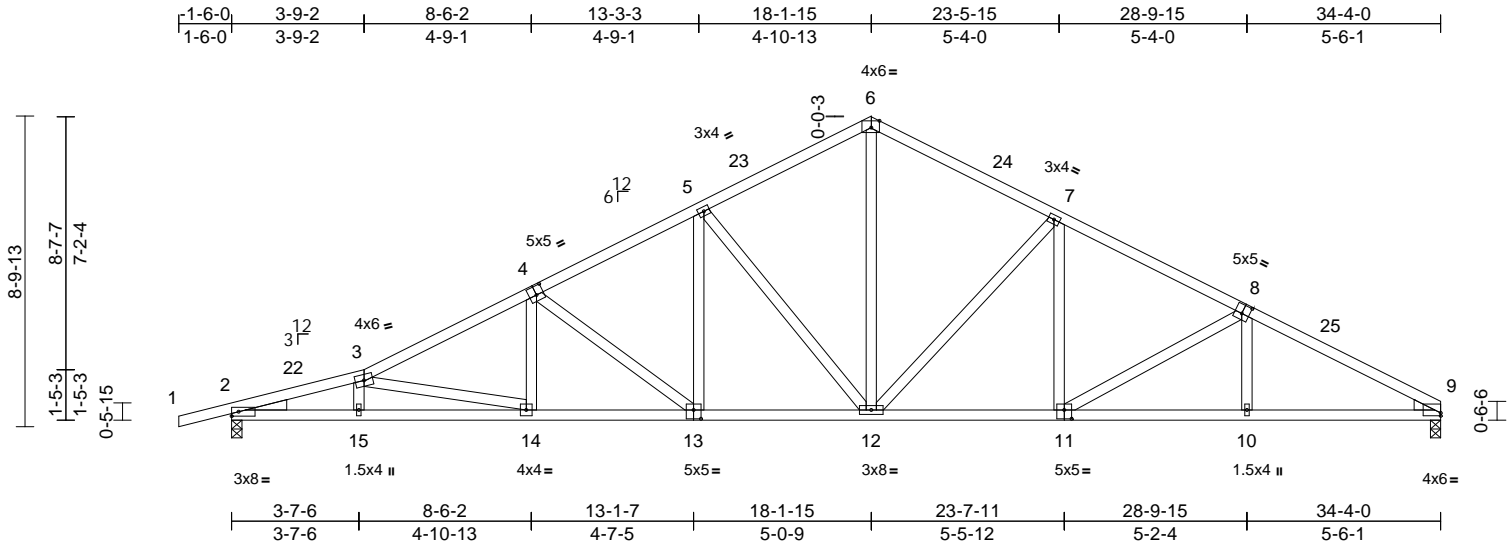
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	A07	Roof Special	4	1	T32125088
Job Reference (optional)					

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:24
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Page: 1



Scale = 1:65.4

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [6:0-2-13,Edge], [8:0-2-8,0-3-0], [9:Edge,0-1-0], [11:0-2-8,0-3-0], [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	0.62	Vert(LL)	-0.20	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.41	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 197 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 2-13:2x4 SP SS
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

BRACING

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

REACTIONS

(lb/size) 2=1465/0-3-8, 9=1371/0-3-8
Max Horiz 2=146 (LC 11)
Max Uplift 2=-37 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-22=-3899/311, 3-22=-3855/320,
3-4=-2888/274, 4-5=-2222/265,
5-23=-1659/238, 6-23=-1594/262,
6-24=-1596/263, 7-24=-1672/245,
7-8=-2125/255, 8-25=-2397/243,
9-25=-2486/228
BOT CHORD 2-15=-298/3735, 14-15=-308/3754,
13-14=-181/2547, 12-13=-99/1913,
11-12=-89/1836, 10-11=-160/2142,
9-10=-158/2144
WEBS 3-15=-151/78, 6-12=-114/1128,
7-12=-609/119, 7-11=0/354, 8-11=-372/83,
8-10=0/173, 4-14=0/466, 3-14=-1231/131,
5-13=-7/560, 4-13=-787/106, 5-12=-759/130

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 34-4-0 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.
- 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.
- Bearings are assumed to be: Joint 2 SP SS crushing
capacity of 565 psi, Joint 9 SP No.2 crushing capacity of
565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 37 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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®

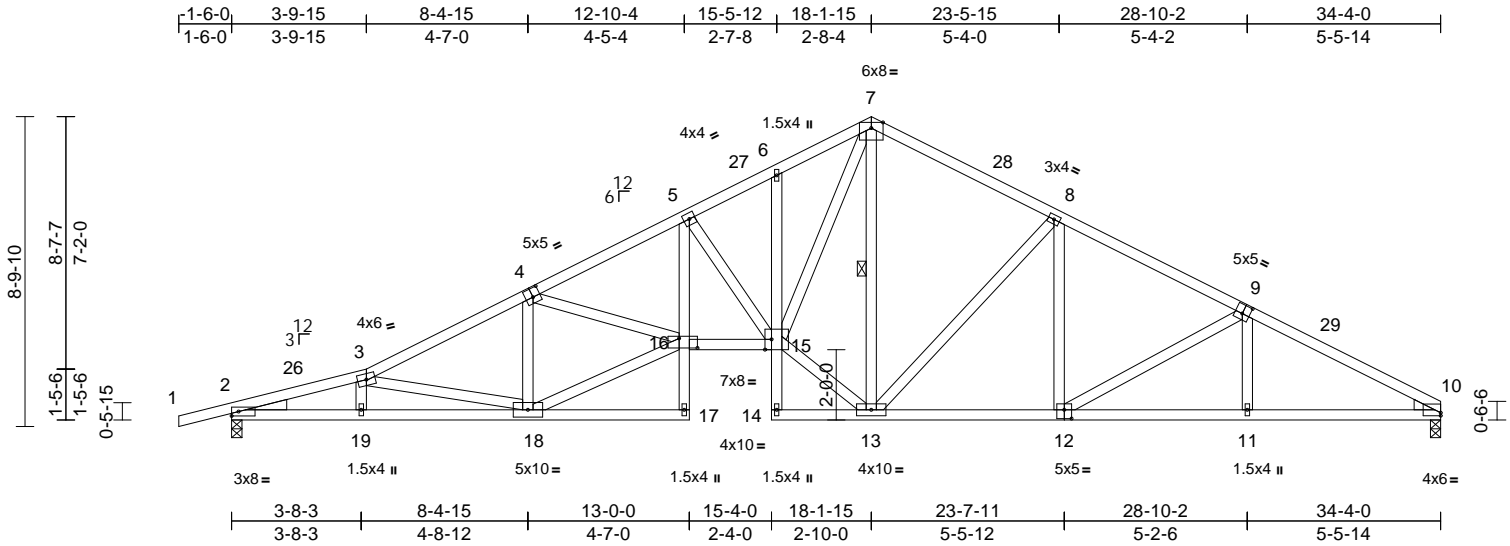
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	A7A	Roof Special	2	1	T32125089

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:21
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Page: 1



Scale = 1:65.4

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [9:0-2-8,0-3-0], [10:Edge,0-1-0], [12:0-2-8,0-3-0], [15:0-2-4,Edge], [16:0-6-4,0-3-4]

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	0.62	Vert(LL)	-0.27	15-16	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.55	15-16	>752	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.22	10	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 221 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 2-17:2x4 SP SS
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-13

REACTIONS (lb/size) 2=1465/0-3-8, 10=1371/0-3-8
Max Horiz 2=146 (LC 11)
Max Uplift 2=-37 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-26=-3909/311, 3-26=-3864/320,
3-4=-2894/275, 4-5=-3490/332,
5-27=-2658/284, 6-27=-2608/297,
6-7=-2605/341, 7-28=-1595/264,
8-28=-1673/245, 8-9=-2126/255,
9-29=-2397/243, 10-29=-2485/228
BOT CHORD 2-19=-298/3744, 18-19=-307/3762,
17-18=-1/65, 16-17=0/69, 5-16=-59/1176,
15-16=-161/3070, 14-15=0/27, 6-15=-125/70,
13-14=-4/45, 12-13=-89/1838,
11-12=-160/2142, 10-11=-158/2144
WEBS 3-19=-144/77, 4-16=0/541, 5-15=-1242/132,
7-15=-173/2285, 4-18=-761/113,
16-18=-199/2758, 3-18=-1231/127,
7-13=-519/0, 8-13=-608/118,
13-15=-13/1723, 8-12=0/357, 9-11=0/172,
9-12=-371/82

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
1-11-3, Interior (1) 1-11-3 to 18-1-15, Exterior(2R)
18-1-15 to 21-7-3, Interior (1) 21-7-3 to 34-4-0 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.
- 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.
- Bearings are assumed to be: Joint 2 SP SS crushing
capacity of 565 psi, Joint 10 SP No.2 crushing capacity
of 565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 37 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	A08	Roof Special Girder	1	1	T32125090
Job Reference (optional)					

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

Run: 8.72 E Aug 20 2023 Print: 8.720 E Aug 20 2023 MiTek Industries, Inc. Thu Nov 16 11:07:01
ID:W9p71B864HVpzf0UINa1L3yXAyl-BtohcVFOwaZh6QCzPBNh?EOYy6CrDDpE4w8BgyleLQ

Page: 1

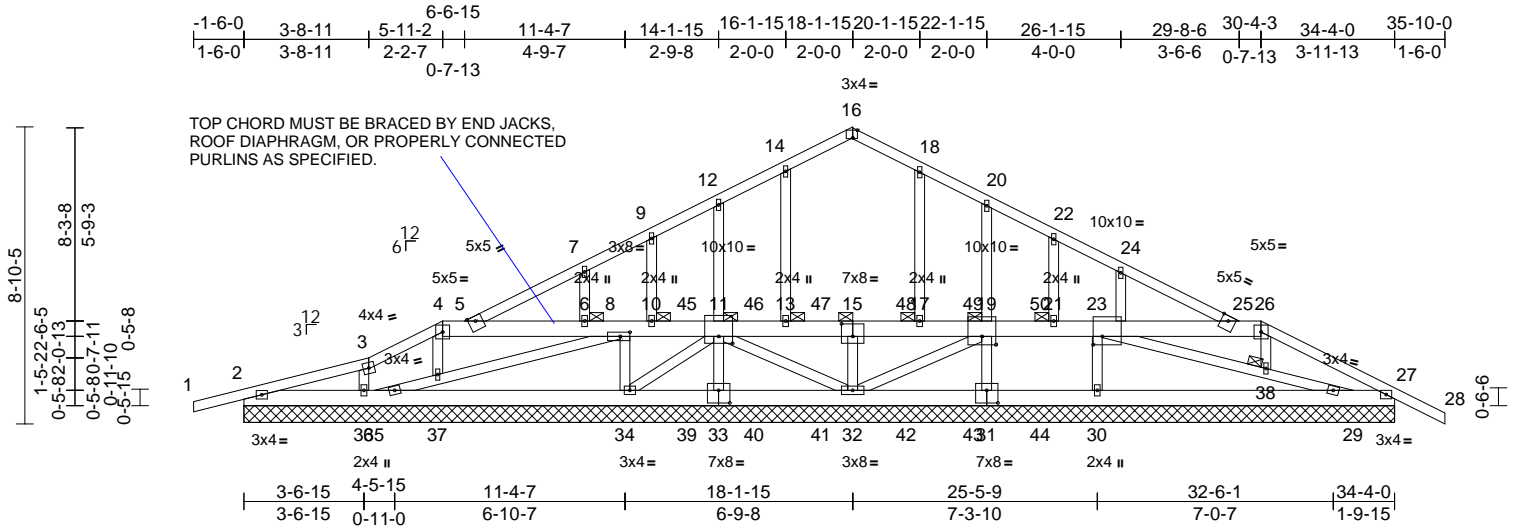


Plate Offsets (X, Y): [8:0-3-8,0-1-8], [11:0-5-0,0-2-8], [15:0-4-0,0-4-8], [16:0-1-11,Edge], [19:0-5-0,0-3-0], [23:0-3-4,0-3-0], [31:0-4-0,0-4-8], [33:0-4-0,0-4-8]

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.01	27	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							
Weight: 289 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 4-15,15-26:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 15, 13, 11, 10, 6, 17, 19, 21, 38

REACTIONS

All bearings	34-4-0.
(lb) - Max Horiz	2=145 (LC 7)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2 except 27=124 (LC 8), 36=285 (LC 3)
Max Grav	All reactions 250 (lb) or less at joint (s) 36 except 2=327 (LC 1), 27=379 (LC 1), 29=320 (LC 3), 30=1377 (LC 1), 31=755 (LC 1), 32=1161 (LC 1), 33=726 (LC 19), 34=1327 (LC 1), 35=620 (LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	2-3=369/0, 26-27=593/56, 4-5=357/31, 5-6=305/133, 6-8=360/150, 23-25=345/139, 25-26=461/62, 3-4=438/26, 2-36=8/368, 35-36=0/402, 27-29=0/466
BOT CHORD	15-32=468/114, 11-33=346/84, 19-31=349/111, 3-36=273/44, 23-38=21/267, 29-38=21/264, 8-34=392/116, 23-30=384/106
WEBS	

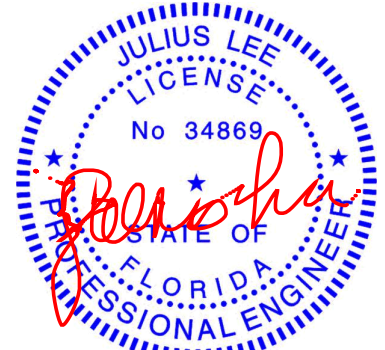
NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; 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
- 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 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 100 lb uplift at joint (s) 2 except (jt=lb) 36=284, 27=124.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 800 lb down at 11-3-8, 191 lb down at 13-2-12, 191 lb down at 15-2-12, 191 lb down at 17-2-12, 191 lb down at 18-5-4, 191 lb down at 19-9-4, 191 lb down at 21-9-4, and 191 lb down at 23-9-4, and 800 lb down at 25-8-8 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)

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=60, 26-28=60, 16-25=60, 5-16=60, 2-27=20, 4-5=60, 25-26=60, 3-4=60
Concentrated Loads (lb)
Vert: 32=186 (F), 15=103 (F), 34=800 (F), 30=800 (F), 39=186 (F), 40=186 (F), 41=186 (F), 42=186 (F), 43=186 (F), 44=186 (F), 45=103 (F), 46=103 (F), 47=103 (F), 48=103 (F), 49=103 (F), 50=103 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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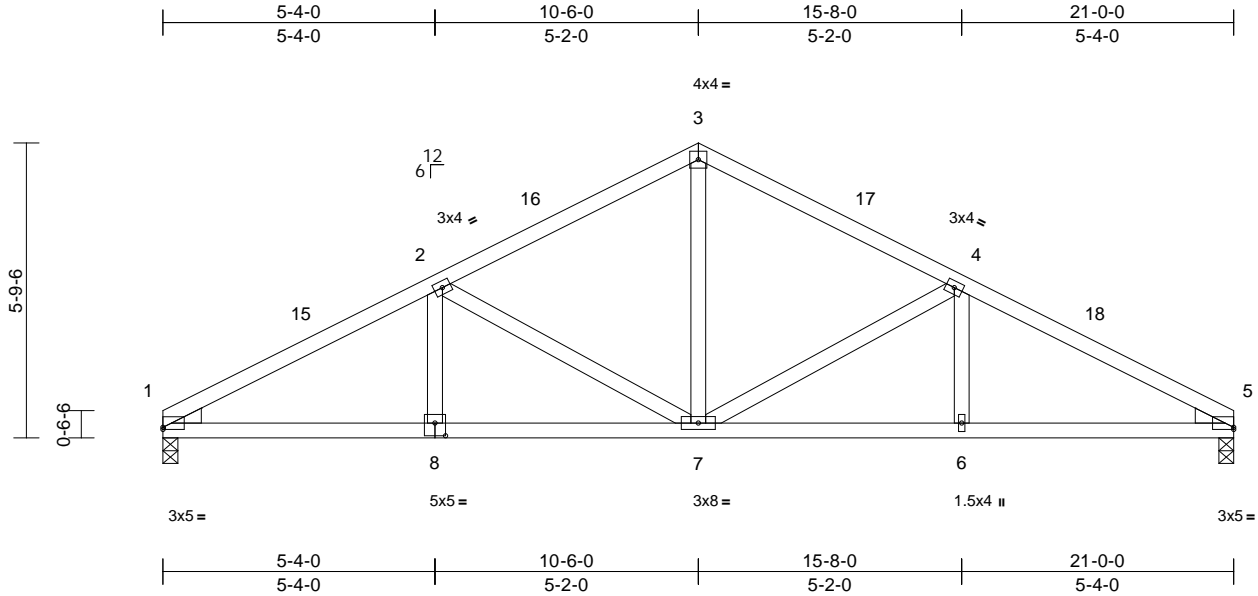
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32125091
1023-006	B01	Common	1	1		

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:25
ID: ?zY3vPOiqwTCqUOHFVxB0nyXAx8-6sMsi8QZofstHsbRax8SMLw_nUVN_9shjltrNaylmbm

Page: 1



Scale = 1:45.2

Plate Offsets (X, Y): [1:Edge,0-0-8], [5:Edge,0-0-8], [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	0.27	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 100 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
Right: 2x4 SP No.2

BRACING

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

REACTIONS (lb/size) 1=840/0-3-8, 5=840/0-3-8
Max Horiz 1=-87 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-1416/129, 2-15=-1340/144,
2-16=-1003/128, 3-16=-933/150,
3-17=-933/150, 4-17=-1003/128,
4-18=-1340/144, 5-18=-1416/129

BOT CHORD 1-8=-78/1201, 7-8=-78/1201, 6-7=-74/1201,
5-6=-74/1201

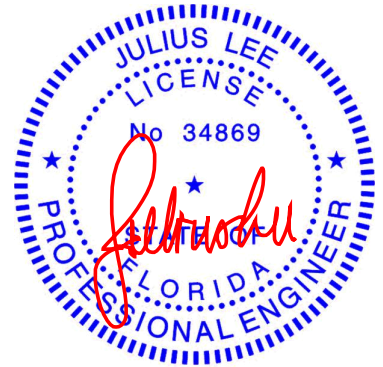
WEBS 2-8=0/193, 2-7=-446/90, 3-7=-23/529,
4-7=-446/90, 4-6=0/193

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior (1) 13-6-0 to 21-0-0 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.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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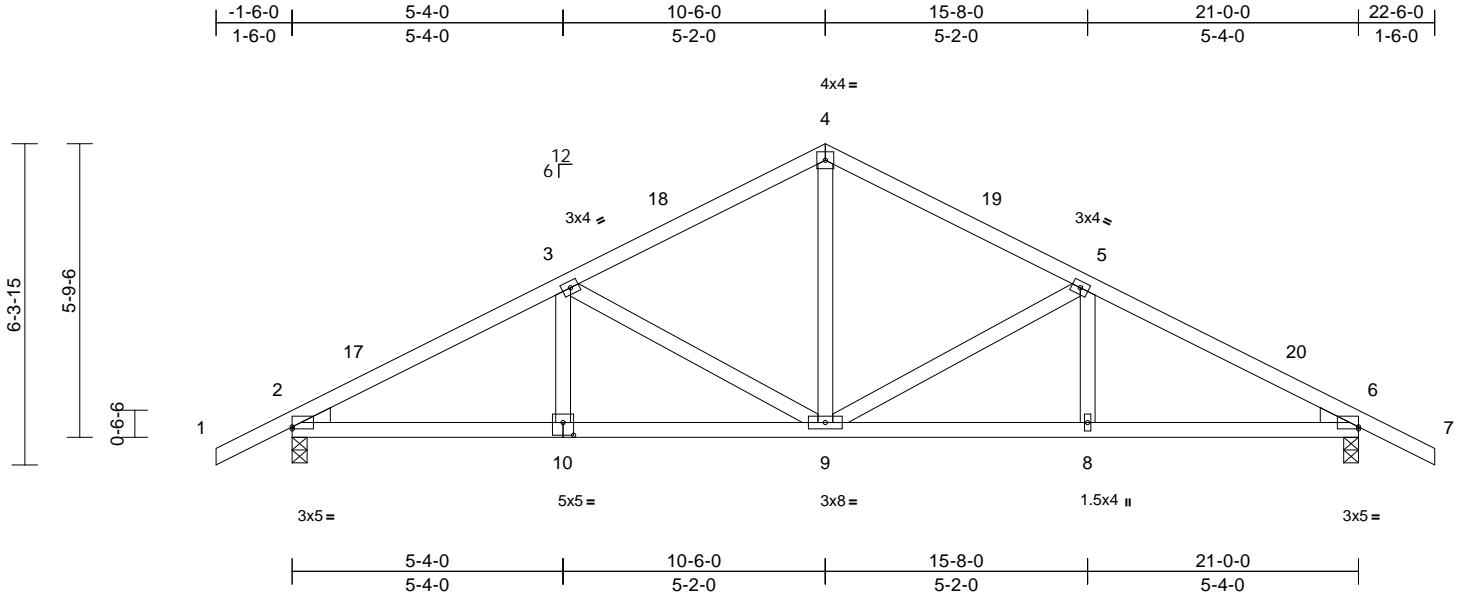
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	B02	Common	4	1	Job Reference (optional)
					T32125092

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:25
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Page: 1



Scale = 1:45.4

Plate Offsets (X, Y): [2:Edge,0-0-8], [6:Edge,0-0-8], [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	0.32	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.11	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 105 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(lb/size) 2=930/0-3-8, 6=930/0-3-8
Max Horiz 2=-99 (LC 10)
Max Uplift 2=-37 (LC 12), 6=-37 (LC 12)

FORCES

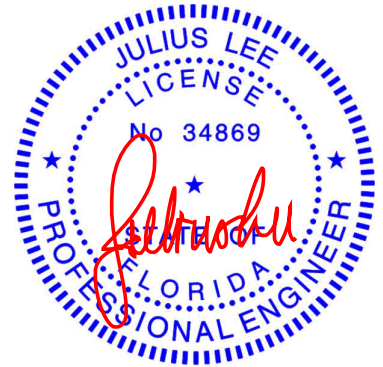
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-17=-1386/102, 3-17=-1310/127,
3-18=-990/126, 4-18=-921/142,
4-19=-921/142, 5-19=-990/126,
5-20=-1310/127, 6-20=-1386/102, 6-7=0/40
BOT CHORD 2-10=-29/1172, 9-10=-29/1172, 8-9=-43/1172,
6-8=-43/1172
WEBS 3-10=0/190, 3-9=-425/84, 4-9=-14/515,
5-9=-425/84, 5-8=0/190

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior (1) 13-6-0 to 22-6-0 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.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

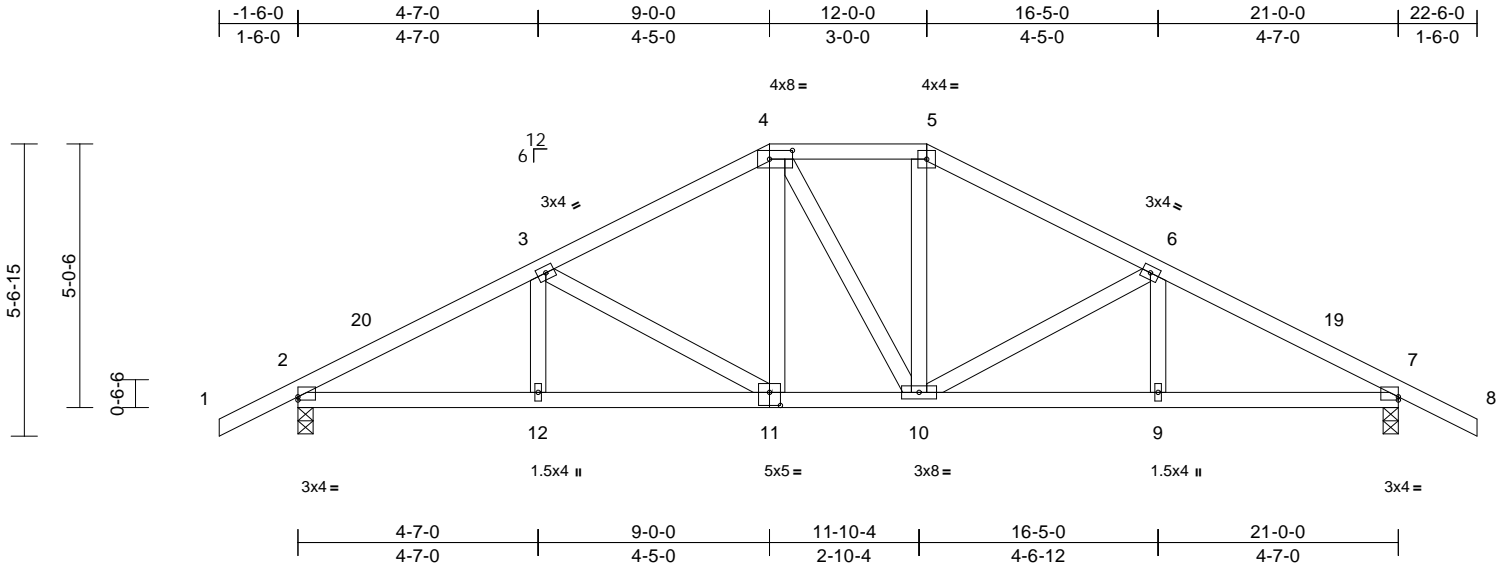
Job	Truss	Truss Type	Qty	Ply	
1023-006	B03	Hip	1	1	T32125093
Job Reference (optional)					

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:26

Page: 1

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Scale = 1:44

Plate Offsets (X, Y): [2:Edge,0-0-12], [4:0-5-4,0-2-0], [7:Edge,0-0-12], [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	0.31	Vert(LL)	-0.05	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.10	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 113 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.

REACTIONS

(lb/size) 2=930/0-3-8, 7=930/0-3-8
Max Horiz 2=-87 (LC 10)
Max Uplift 2=-37 (LC 12), 7=-37 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 5-6=-1079/111, 6-19=-1330/93,
7-19=-1401/72, 7-8=0/40, 4-5=-918/122,
1-2=0/40, 2-20=-1401/72, 3-20=-1330/93,
3-4=-1085/111
BOT CHORD 2-12=-17/1190, 11-12=-17/1190,
10-11=0/915, 9-10=-29/1190, 7-9=-29/1190
WEBS 6-10=-330/58, 5-10=0/268, 4-10=-97/105,
4-11=0/265, 3-11=-327/58, 3-12=0/158,
6-9=0/160

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to
1-6-0, Interior (1) 1-6-0 to 9-0-0, Exterior(2E) 9-0-0 to
12-0-0, Exterior(2R) 12-0-0 to 16-5-0, Interior (1) 16-5-0
to 22-6-0 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.
- All bearings are assumed to be SP No.2 crushing
capacity of 565 psi.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 37 lb uplift at joint
2 and 37 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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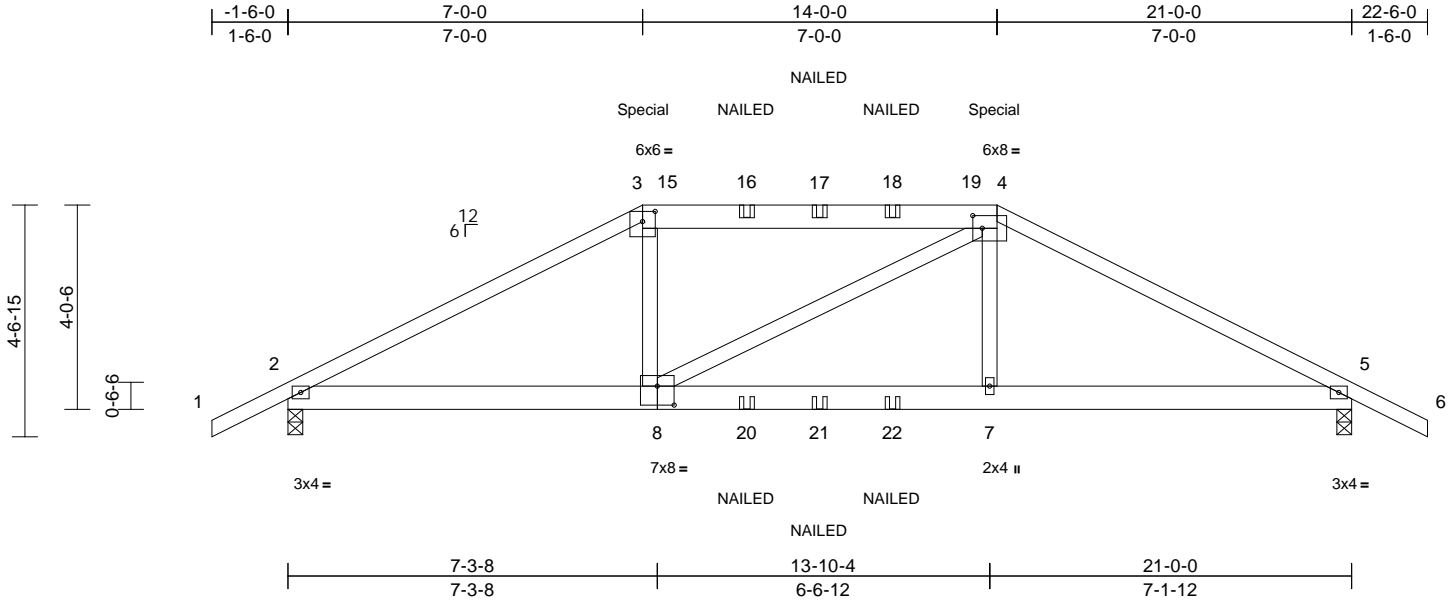
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	B04	Hip Girder	1	2	T32125094
Job Reference (optional)					

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

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Page: 1



Scale = 1:45.5

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

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	0.49	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.11	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 228 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 4-3:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

BRACING

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

REACTIONS	(lb/size) 2=1793/0-3-8, 5=1798/0-3-8 Max Horiz 2=70 (LC 7) Max Uplift 2=-131 (LC 8), 5=-133 (LC 8)
-----------	--

FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension 4-5=-3209/210, 5-6=0/40, 3-15=-2826/206, 15-16=-2826/206, 16-17=-2826/206, 17-18=-2826/206, 18-19=-2826/206, 4-19=-2826/206, 1-2=0/40, 2-3=-3198/209
BOT CHORD	2-8=-97/2778, 8-20=-98/2812, 20-21=-98/2812, 21-22=-98/2812, 7-22=-98/2812, 5-7=-99/2788
WEBS	4-7=0/608, 4-8=-100/132, 3-8=0/625

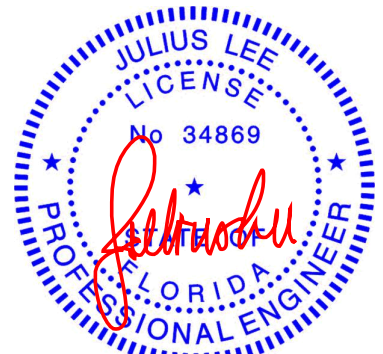
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 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 7-16; 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); 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2 and 133 lb uplift at joint 5.
- "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) 258 lb down and 4 lb up at 7-0-0, and 258 lb down and 4 lb up at 14-0-0 on top chord, and 381 lb down and 92 lb up at 7-0-0, and 381 lb down and 92 lb up at 13-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 4-6=-60, 3-4=-60, 1-3=-60, 9-12=-20
Concentrated Loads (lb)
Vert: 4=-203 (B), 3=-203 (B), 7=-381 (B), 8=-381 (B), 16=-128 (B), 17=-128 (B), 18=-128 (B), 20=-60 (B), 21=-60 (B), 22=-60 (B)



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

November 16,2023

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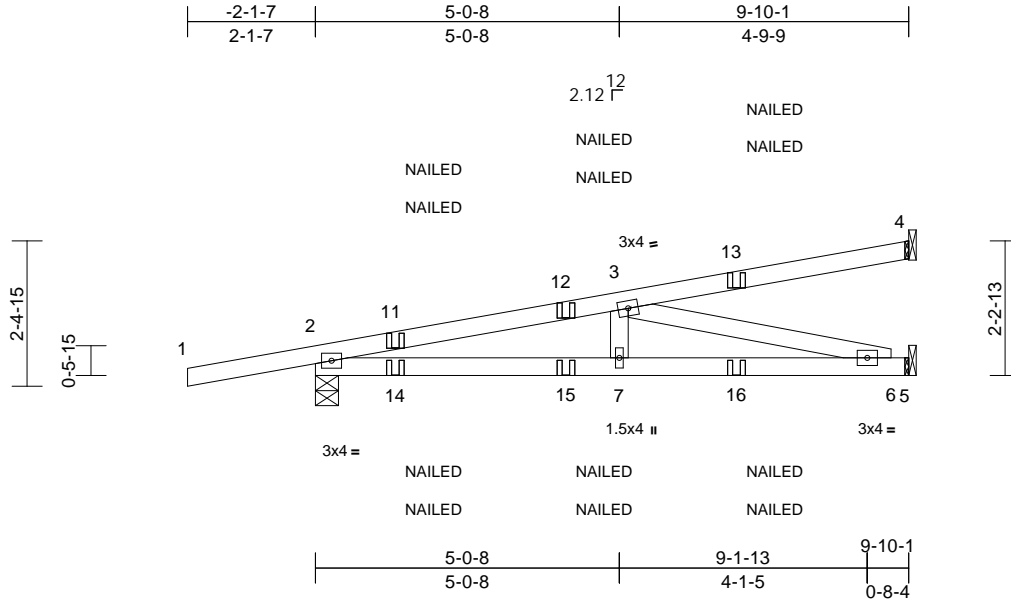
Job	Truss	Truss Type	Qty	Ply	
1023-006	CJ01	Diagonal Hip Girder	2	1	T32125095
Job Reference (optional)					

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:26

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Scale = 1:38.2

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	0.56	Vert(LL)	-0.05	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.13	6-7	>934	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.02	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 41 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 5-4-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	2=474/0-4-9, 4=157/ Mechanical, 5=307/ Mechanical
	Max Horiz	2=60 (LC 4)
	Max Uplift	2=-67 (LC 4), 4=-30 (LC 4)

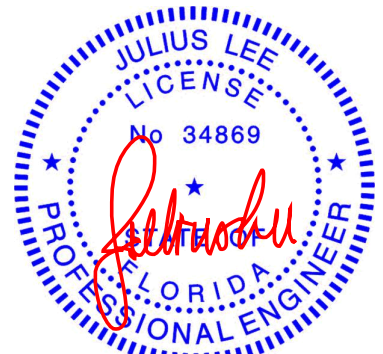
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/22, 2-11=-1064/113, 11-12=-1066/0, 3-12=-1032/0, 3-13=-37/4, 4-13=-9/22
BOT CHORD	2-14=-85/1030, 14-15=0/1030, 7-15=0/1030, 7-16=0/1030, 6-16=0/1030, 5-6=0/0
WEBS	3-7=0/231, 3-6=-1060/0

NOTES

- 1) Wind: ASCE 7-16; 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); 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 67 lb uplift at joint 2.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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: 11=59 (F=30, B=30), 13=-86 (F=-43, B=-43), 14=58 (F=29, B=29), 15=-5 (F=-2, B=-2), 16=-56 (F=-28, B=-28)



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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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November 16,2023

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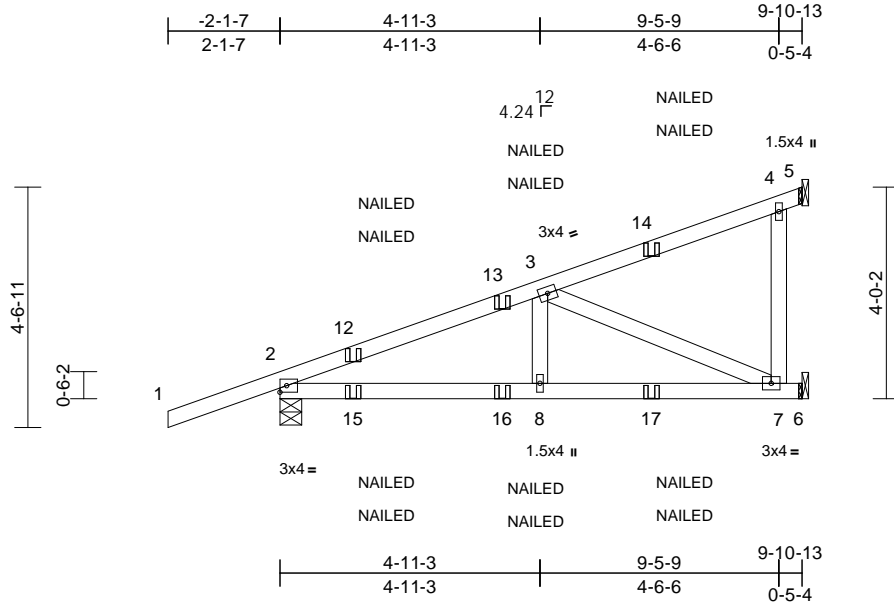
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	CJ02	Diagonal Hip Girder	2	1	T32125096

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

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Scale = 1:43.7

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	0.55	Vert(LL)	-0.05	7-8	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.11	7-8	>999	180	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 48 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 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size)	2=473/0-4-15, 5=116/ Mechanical, 6=349/ Mechanical
Max Horiz	2=111 (LC 22)
Max Uplift	2=-110 (LC 8), 6=-103 (LC 8)
Max Grav	2=473 (LC 1), 5=210 (LC 3), 6=349 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-12=-718/150, 12-13=-680/0, 3-13=-640/7, 3-14=-79/1, 4-14=-28/37, 4-5=0/70
BOT CHORD	2-15=-79/630, 15-16=-56/630, 8-16=-56/630, 8-17=-56/630, 7-17=-56/630, 6-7=0/0
WEBS	3-8=0/239, 4-7=-47/162, 3-7=-687/61

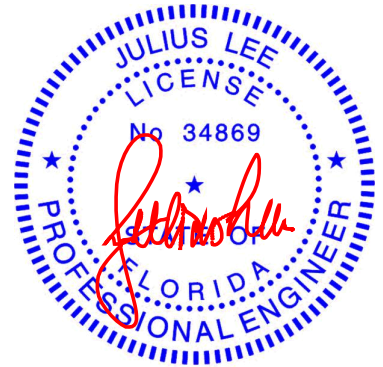
NOTES

- Wind: ASCE 7-16; 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); 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.

- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 103 lb uplift at joint 6.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 12=60 (F=30, B=30), 14=-88 (F=-44, B=-44), 15=59 (F=30, B=30), 16=-1 (F=-1, B=-1), 17=-54 (F=-27, B=-27)



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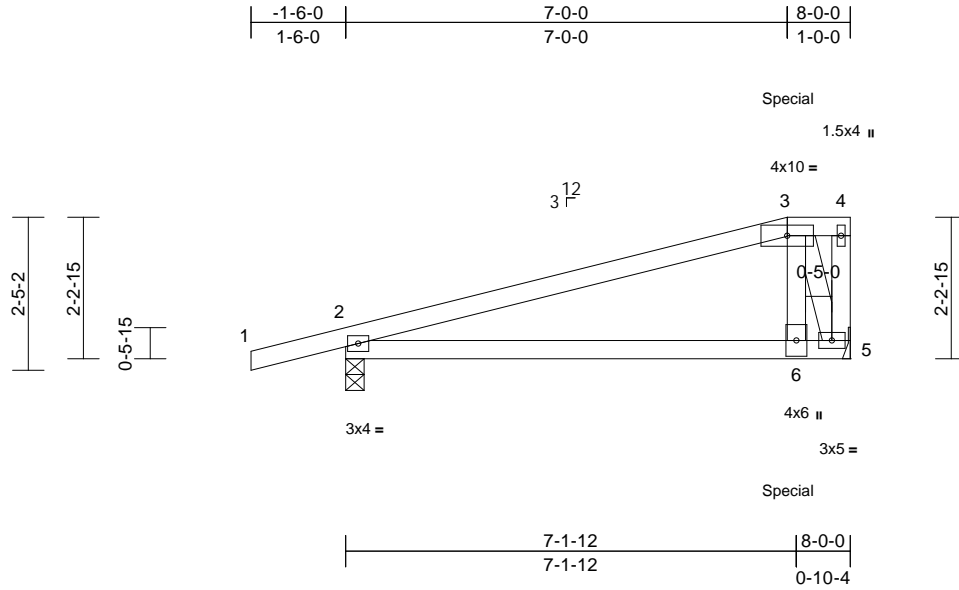
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	
1023-006	H01	Half Hip Girder	2	2	Job Reference (optional)
					T32125097

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

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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	0.37	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 68 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=468/0-3-8, 5=820/ Mechanical
Max Horiz 2=59 (LC 7)
Max Uplift 2=-33 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-455/42, 3-4=-21/19, 4-5=-26/6
BOT CHORD 2-6=-29/389, 5-6=0/440
WEBS 3-6=0/783, 3-5=-1098/0

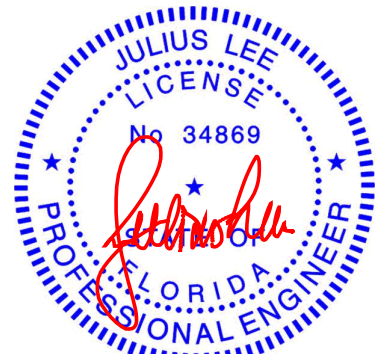
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-6-0 oc, Except member 3-5 2x4 - 1 row at 0-9-0 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 7-16; 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); 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 269 lb down and 64 lb up at 7-0-0 on top chord, and 347 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-347 (B), 3=-222 (B)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

November 16, 2023

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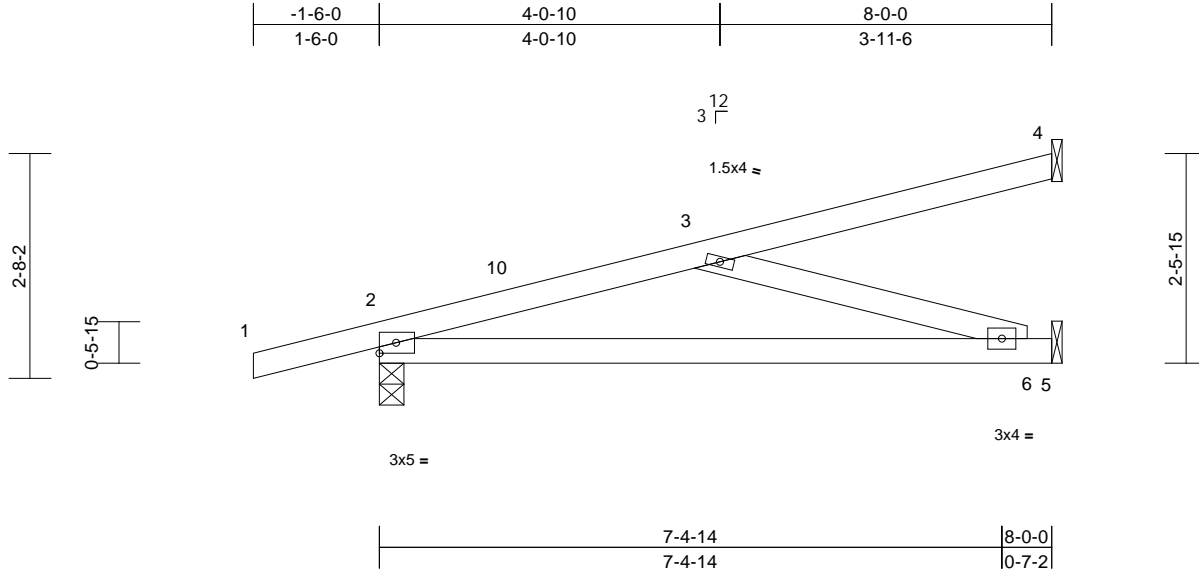
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32125098
1023-006	J01	Jack-Partial	7	1		

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

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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	0.39	Vert(LL)	-0.12	6-9	>793	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	6-9	>392	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 33 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.

REACTIONS

(lb/size) 2=416/0-3-8, 4=103/ Mechanical,
5=206/ Mechanical
Max Horiz 2=61 (LC 12)
Max Uplift 2=-33 (LC 12), 4=-28 (LC 12)
Max Grav 2=416 (LC 1), 4=103 (LC 1), 5=211 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

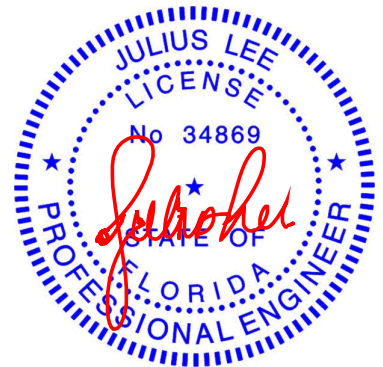
TOP CHORD 1-2=0/22, 2-10=-554/194, 3-10=-543/203,
3-4=-36/19
BOT CHORD 2-6=-265/527, 5-6=0/0
WEBS 3-6=-548/275

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to
1-6-0, Interior (1) 1-6-0 to 7-11-4 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing
capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 28 lb uplift at joint
4 and 33 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023

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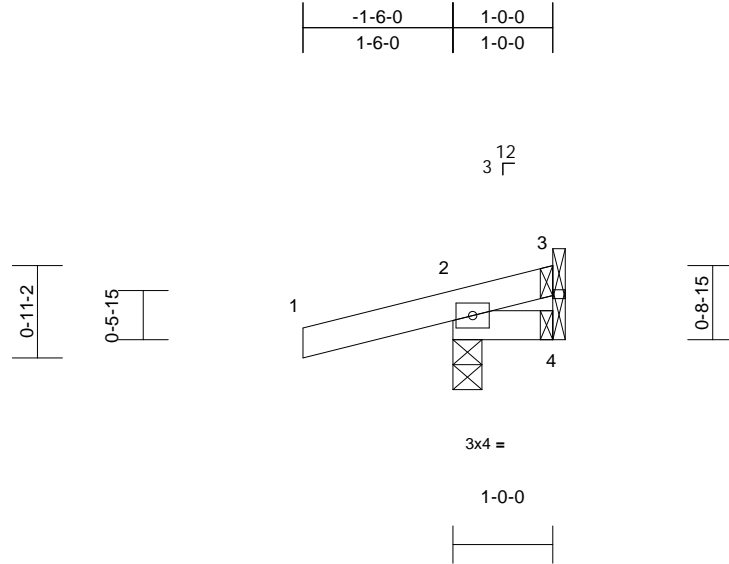
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	J02	Jack-Open	4	1	T32125099
Job Reference (optional)					

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:27
ID:?uTYIyNhfWYUOU0FH4NmNyXAiC-2FUd7qSpKG6aXAIqhLBwRj?LMHGMS7WzAcMySTylmbk

Page: 1



Scale = 1:23.1

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	0.14	Vert(LL)	0.00	7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	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	FBC2020/TPI2014	Matrix-MP							Weight: 5 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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=198/0-3-8, 3=-9/ Mechanical, 4=-20/ Mechanical
Max Horiz 2=20 (LC 12)
Max Uplift 2=-63 (LC 12), 3=-9 (LC 1), 4=-20 (LC 1)
Max Grav 2=198 (LC 1), 3=10 (LC 12), 4=16 (LC 12)

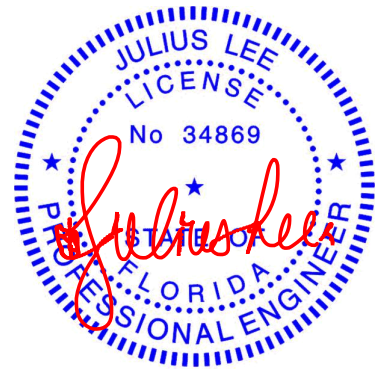
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-85/101
BOT CHORD 2-4=-72/51

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 2, 20 lb uplift at joint 4 and 9 lb uplift at joint 3.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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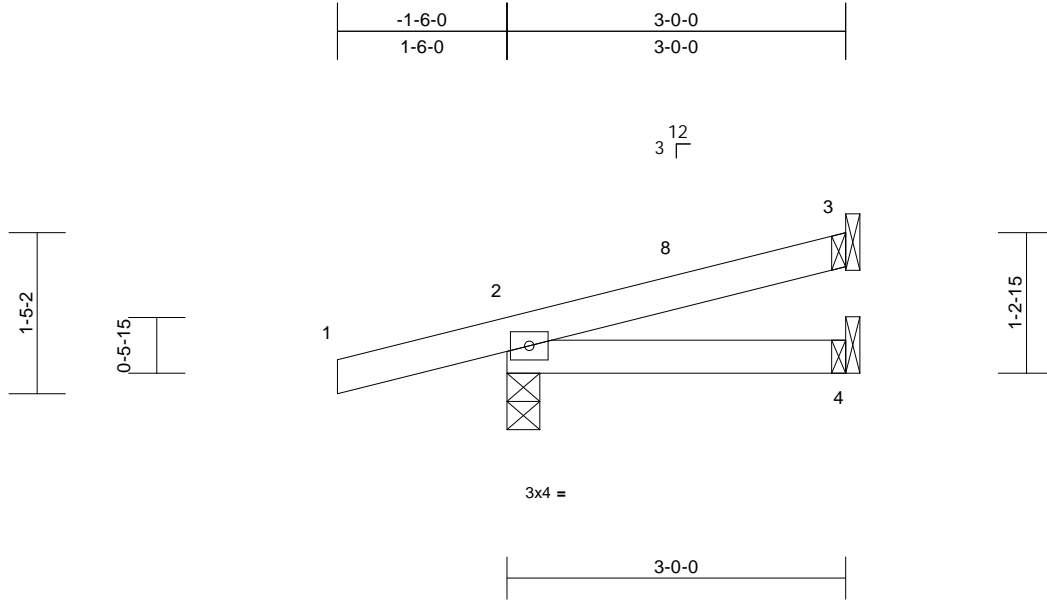
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	J03	Jack-Open	4	1	T32125100

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:28
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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	0.14	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>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	FBC2020/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 (lb/size) 2=230/0-3-8, 3=67/ Mechanical, 4=28/ Mechanical
Max Horiz 2=31 (LC 12)
Max Uplift 2=43 (LC 12), 3=9 (LC 12)
Max Grav 2=230 (LC 1), 3=67 (LC 1), 4=50 (LC 3)

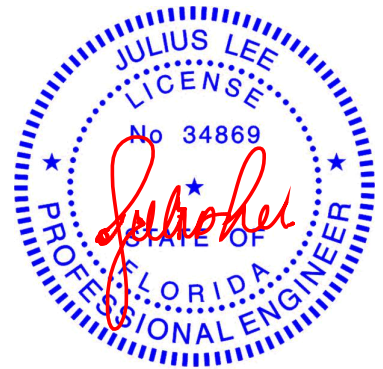
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-8=-107/100, 3-8=-17/13
BOT CHORD 2-4=-55/39

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 3 and 43 lb uplift at joint 2.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023

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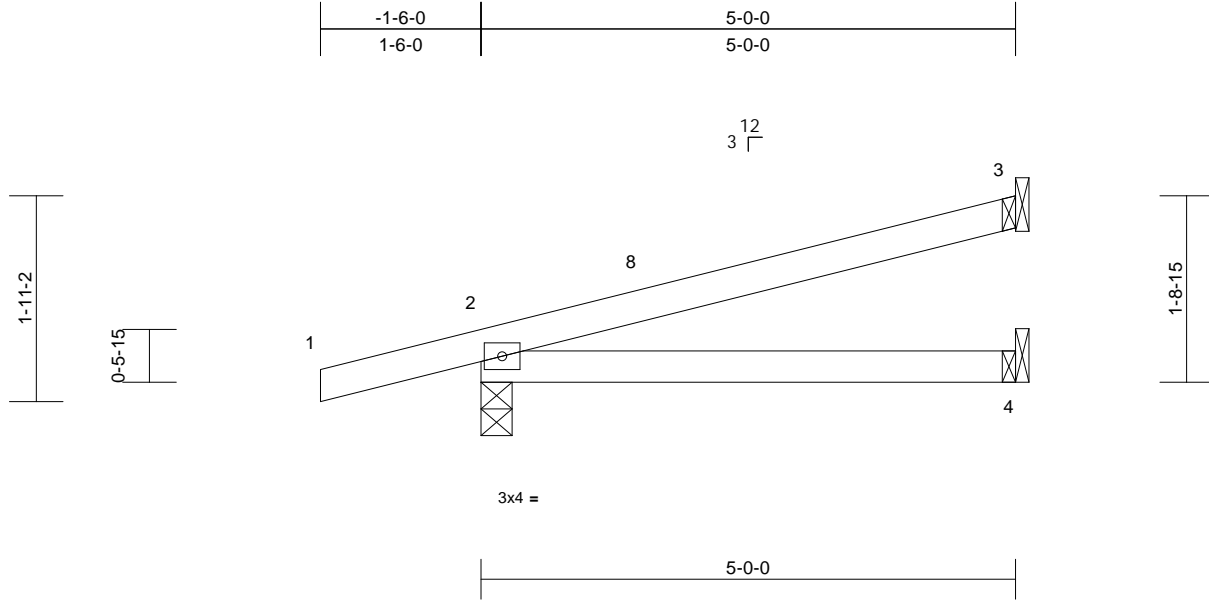
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	J04	Jack-Open	4	1	T32125101

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

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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	0.29	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/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 (lb/size) 2=301/0-3-8, 3=128/ Mechanical,
4=56/ Mechanical
Max Horiz 2=43 (LC 12)
Max Uplift 2=-38 (LC 12), 3=-21 (LC 12)
Max Grav 2=301 (LC 1), 3=128 (LC 1), 4=88 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

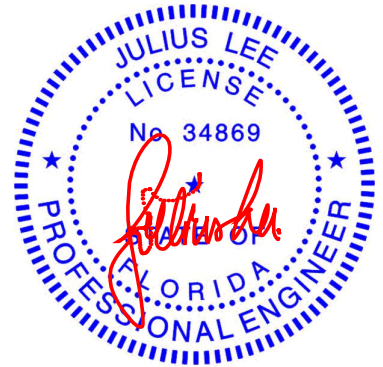
TOP CHORD 1-2=0/22, 2-8=-125/94, 3-8=-34/24
BOT CHORD 2-4=-64/65

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to
1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing
capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 21 lb uplift at joint
3 and 38 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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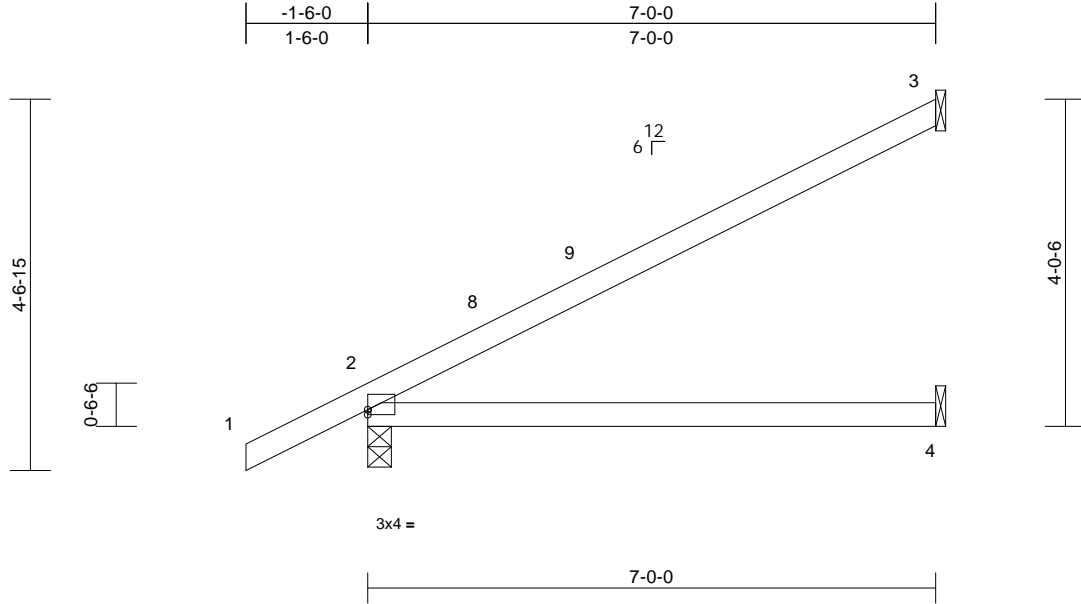
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	J05	Jack-Open	5	1	Job Reference (optional)
					T32125102

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

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Page: 1



Scale = 1:28.4

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

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)	-0.09	4-7	>908	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>387	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 25 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 (lb/size) 2=377/0-3-8, 3=188/ Mechanical, 4=80/ Mechanical
Max Horiz 2=111 (LC 12)
Max Uplift 2=-18 (LC 12), 3=-48 (LC 12)
Max Grav 2=377 (LC 1), 3=188 (LC 1), 4=126 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-8=-314/203, 8-9=-88/29, 3-9=-81/66

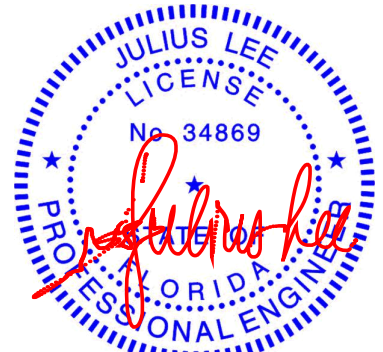
BOT CHORD 2-4=-286/123

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 18 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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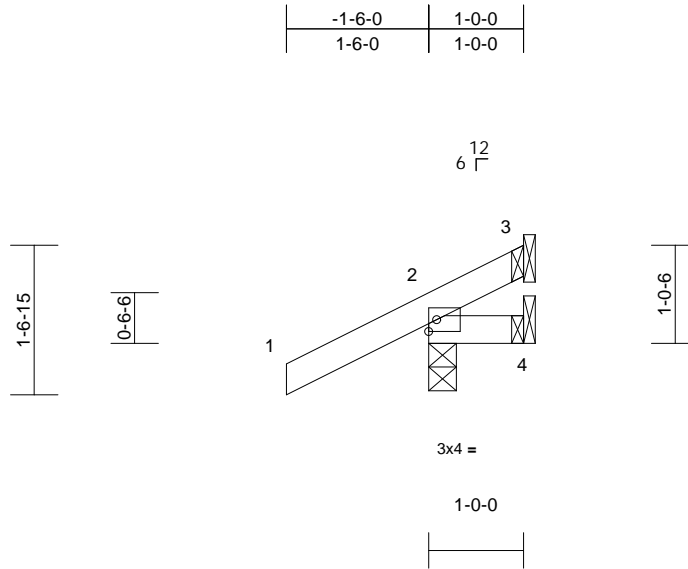
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	J06	Jack-Open	4	1	T32125103

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:28
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Page: 1



Scale = 1:24.3

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	0.14	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-7	>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	FBC2020/TPI2014	Matrix-MP							Weight: 6 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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=198/0-3-8, 3=-8/ Mechanical, 4=-21/ Mechanical
Max Horiz 2=39 (LC 12)
Max Uplift 2=-64 (LC 12), 3=-8 (LC 1), 4=-21 (LC 1)
Max Grav 2=198 (LC 1), 3=8 (LC 12), 4=18 (LC 12)

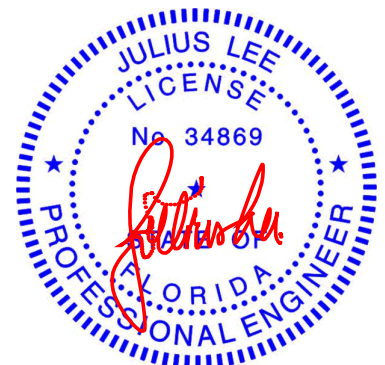
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-115/113
BOT CHORD 2-4=-66/30

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2, 21 lb uplift at joint 4 and 8 lb uplift at joint 3.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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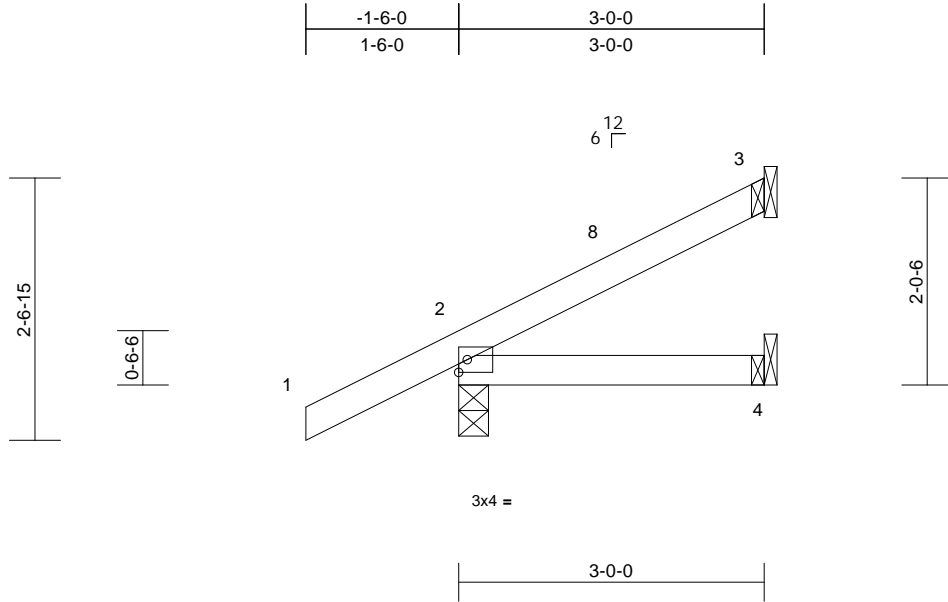
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	J07	Jack-Open	4	1	T32125104

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:28
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Scale = 1:22.6

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)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>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	FBC2020/TPI2014	Matrix-MP							Weight: 12 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 (lb/size) 2=230/0-3-8, 3=68/ Mechanical, 4=27/ Mechanical
Max Horiz 2=63 (LC 12)
Max Uplift 2=-36 (LC 12), 3=-16 (LC 12)
Max Grav 2=230 (LC 1), 3=68 (LC 1), 4=51 (LC 3)

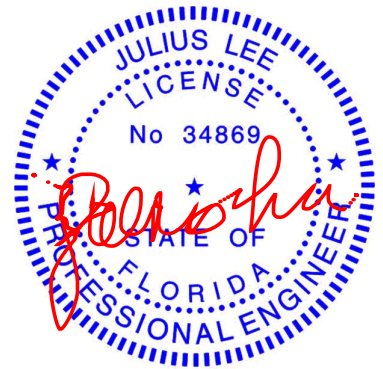
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-8=-162/130, 3-8=-35/27
BOT CHORD 2-4=-61/44

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 36 lb uplift at joint 2.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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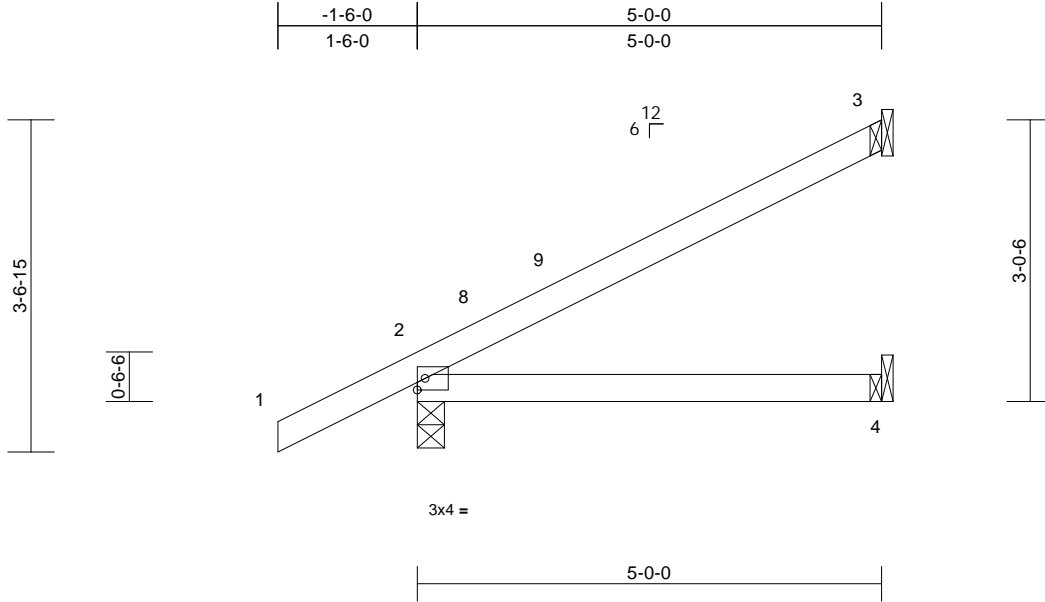
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-006	J08	Jack-Open	4	1	T32125105

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

Run: 8.72 E Sep 21 2023 Print: 8.720 E Sep 21 2023 MiTek Industries, Inc. Thu Nov 16 13:43:29
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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	0.29	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/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 (lb/size) 2=301/0-3-8, 3=129/ Mechanical, 4=55/ Mechanical
Max Horiz 2=87 (LC 12)
Max Uplift 2=-26 (LC 12), 3=-33 (LC 12)
Max Grav 2=301 (LC 1), 3=129 (LC 1), 4=89 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-8=-234/162, 8-9=-71/19, 3-9=-64/45
BOT CHORD 2-4=-190/90

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 26 lb uplift at joint 2.
 - 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.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16, 2023

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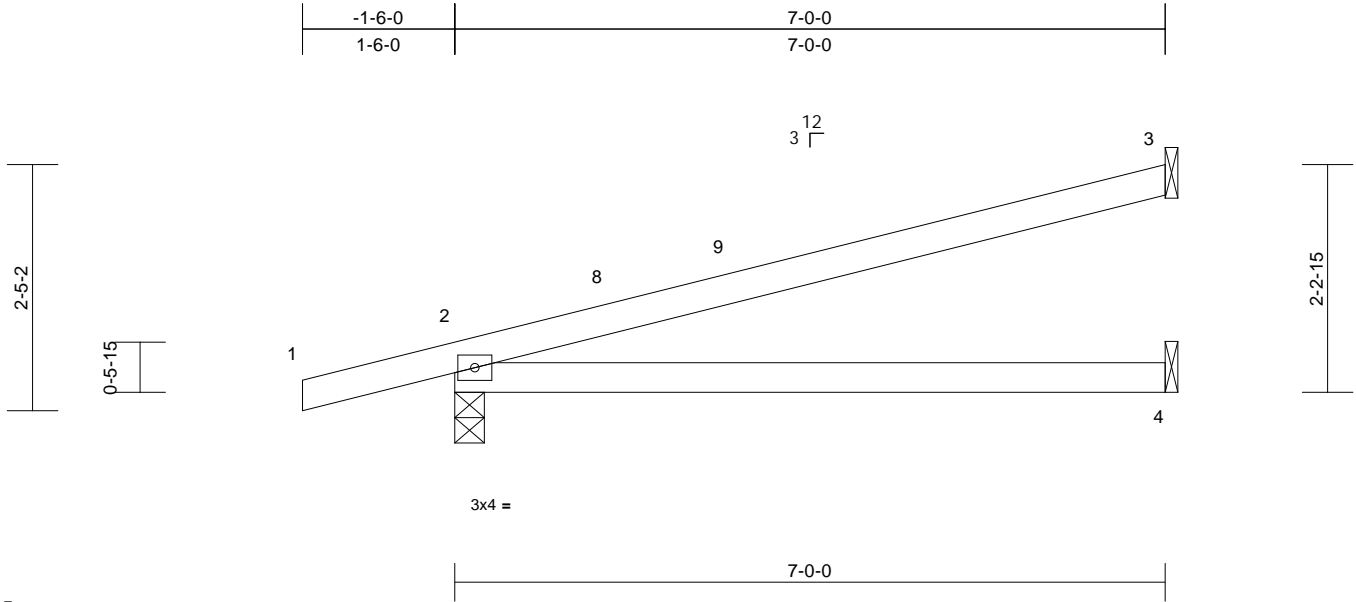
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1023-006	J09	Jack-Open	2	1	Job Reference (optional)
					T32125106

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

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Page: 1



Scale = 1:22.7

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)	-0.09	4-7	>958	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21	4-7	>400	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/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 (lb/size) 2=377/0-3-8, 3=187/ Mechanical,
4=81/ Mechanical
Max Horiz 2=55 (LC 12)
Max Uplift 2=-34 (LC 12), 3=-33 (LC 12)
Max Grav 2=377 (LC 1), 3=187 (LC 1), 4=124 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

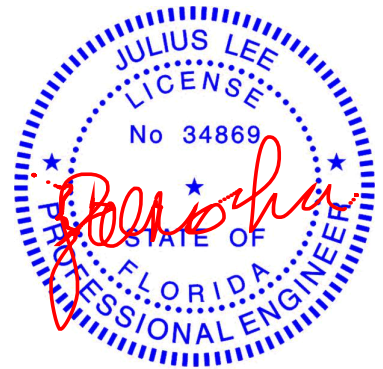
TOP CHORD 1-2=0/22, 2-8=-158/92, 8-9=-47/13,
3-9=-43/36
BOT CHORD 2-4=-81/87

NOTES

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to
1-6-0, Interior (1) 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) Bearings are assumed to be: , Joint 2 SP No.2 crushing
capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 33 lb uplift at joint
3 and 34 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 16,2023

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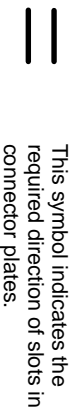
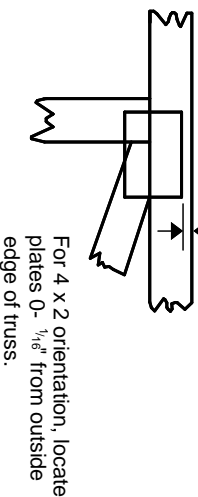
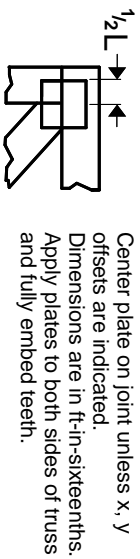
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

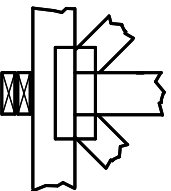
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

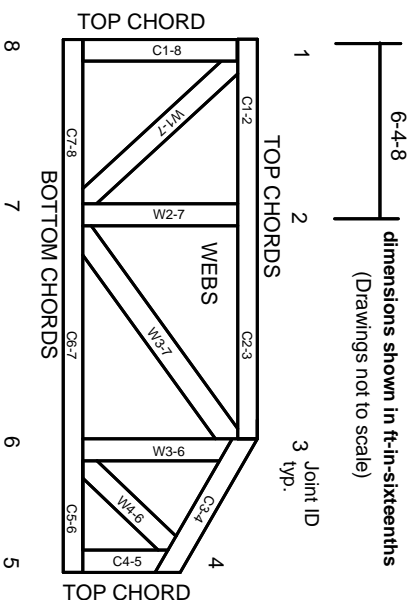


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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/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. 1/2/2023

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.