



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

RE: 1223-007 -

Site Information:

Customer Info: JACOB Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: FT. WHITE State: FL

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 17 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date
1	T32516117	A01	1/4/24
2	T32516118	A02	1/4/24
3	T32516119	A2A	1/4/24
4	T32516120	A03	1/4/24
5	T32516121	A04	1/4/24
6	T32516122	B01	1/4/24
7	T32516123	B02	1/4/24
8	T32516124	B03	1/4/24
9	T32516125	C01	1/4/24
10	T32516126	C02	1/4/24
11	T32516127	D01	1/4/24
12	T32516128	D02	1/4/24
13	T32516129	D03	1/4/24
14	T32516130	F01	1/4/24
15	T32516131	F02	1/4/24
16	T32516132	F03	1/4/24
17	T32516133	GO1	1/4/24



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:

January 4, 2024

Lee, Julius

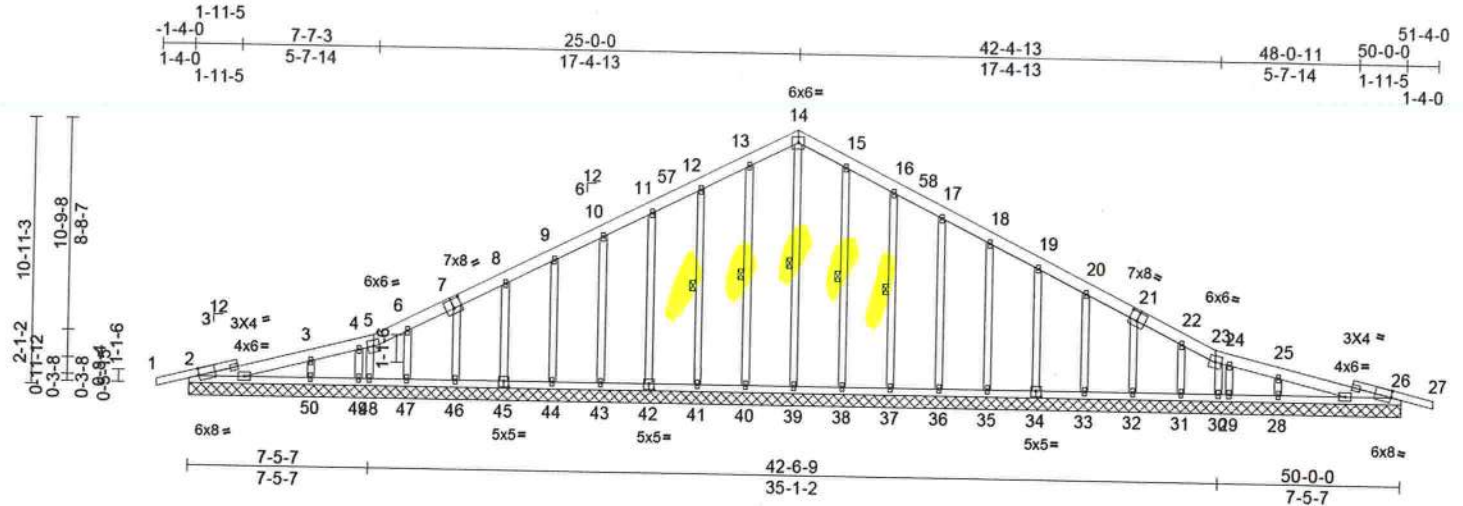
1 of 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	A01	Roof Special Supported Gable	1	1	T32516117

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:13
ID:Y28rO8OJnCdP8INbhtNmkyBhEc-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDd7J4zJC?I

Page: 1



Scale = 1:91

Plate Offsets (X, Y): [2:0-0-4,0-3-6], [7:0-4-0,0-4-8], [21:0-4-0,0-4-8], [26:0-0-4,0-3-6], [34:0-2-8,0-3-0], [42:0-2-8,0-3-0], [45:0-2-8,0-3-0]

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	54	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 368 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 1-2,26-27:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 14-39, 13-40, 12-41, 15-38, 16-37

REACTIONS (size)

2=50-0-0, 26=50-0-0, 28=50-0-0, 29=50-0-0, 30=50-0-0, 31=50-0-0, 32=50-0-0, 33=50-0-0, 34=50-0-0, 35=50-0-0, 36=50-0-0, 37=50-0-0, 38=50-0-0, 39=50-0-0, 40=50-0-0, 41=50-0-0, 42=50-0-0, 43=50-0-0, 44=50-0-0, 45=50-0-0, 46=50-0-0, 47=50-0-0, 48=50-0-0, 49=50-0-0, 50=50-0-0, 51=50-0-0, 54=50-0-0
Max Horiz 2=187 (LC 11), 51=187 (LC 11)
Max Uplift 2=-45 (LC 12), 26=-27 (LC 12), 29=-47 (LC 3), 31=-7 (LC 12), 32=-13 (LC 12), 33=-13 (LC 12), 34=-12 (LC 12), 35=-12 (LC 12), 36=-12 (LC 12), 37=-19 (LC 12), 41=-19 (LC 12), 42=-12 (LC 12), 43=-12 (LC 12), 44=-12 (LC 12), 45=-13 (LC 12), 46=-13 (LC 12), 47=-7 (LC 12), 49=-88 (LC 17), 50=-10 (LC 12), 51=-45 (LC 12), 54=-27 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-148/127, 3-4=-151/110, 4-5=-141/116, 5-6=-153/126, 6-8=-152/118, 8-9=-132/119, 9-10=-125/152, 10-11=-118/186, 11-12=-118/220, 12-13=-139/256, 13-14=-148/274, 23-24=-56/28, 24-25=-81/25, 25-26=-80/40, 26-27=0/19, 14-15=-148/263, 15-16=-139/231, 16-17=-118/194, 17-18=-100/161, 18-19=-82/127, 19-20=-64/94, 20-22=-77/59, 22-23=-72/31
BOT CHORD 2-50=-61/96, 49-50=-34/96, 48-49=-34/96, 47-48=-31/95, 46-47=-31/95, 44-46=-32/98, 43-44=-32/98, 41-43=-32/98, 40-41=-32/98, 39-40=-32/98, 38-39=-32/98, 37-38=-32/98, 36-37=-32/98, 35-36=-32/98, 33-35=-32/98, 32-33=-32/98, 31-32=-28/95, 30-31=-28/95, 29-30=-29/95, 28-29=-29/95, 26-28=-35/95

WEBS

14-39=-136/49, 13-40=-123/69, 12-41=-123/105, 11-42=-120/59, 10-43=-120/50, 9-44=-119/51, 8-45=-127/53, 7-46=-122/53, 6-47=-106/43, 4-49=0/17, 3-50=-318/83, 15-38=-119/66, 16-37=-123/106, 17-36=-120/59, 18-35=-120/50, 19-34=-119/51, 20-33=-128/53, 21-32=-121/53, 22-31=-103/41, 24-29=-3/15, 25-28=-290/73, 5-48=-71/18, 23-30=-74/16

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 3-8-0, Exterior(2N) 3-8-0 to 25-0-0, Corner(3R) 25-0-0 to 30-0-0, Exterior(2N) 30-0-0 to 51-4-0; cantilever left and right exposed, end of roof left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



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

January 4, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	A01	Roof Special Supported Gable	1	1	T32516117

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:13
ID:YZ8rO8OJjnCdP8INbhtNmkyBhEc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDol7J4zJC?I

Page: 2

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 27 lb uplift at joint 26, 19 lb uplift at joint 41, 12 lb uplift at joint 42, 12 lb uplift at joint 43, 12 lb uplift at joint 44, 13 lb uplift at joint 45, 13 lb uplift at joint 46, 7 lb uplift at joint 47, 88 lb uplift at joint 49, 10 lb uplift at joint 50, 19 lb uplift at joint 37, 12 lb uplift at joint 36, 12 lb uplift at joint 35, 12 lb uplift at joint 34, 13 lb uplift at joint 33, 13 lb uplift at joint 32, 7 lb uplift at joint 31, 47 lb uplift at joint 29, 45 lb uplift at joint 2 and 27 lb uplift at joint 26.
- 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.

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 D9B-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®

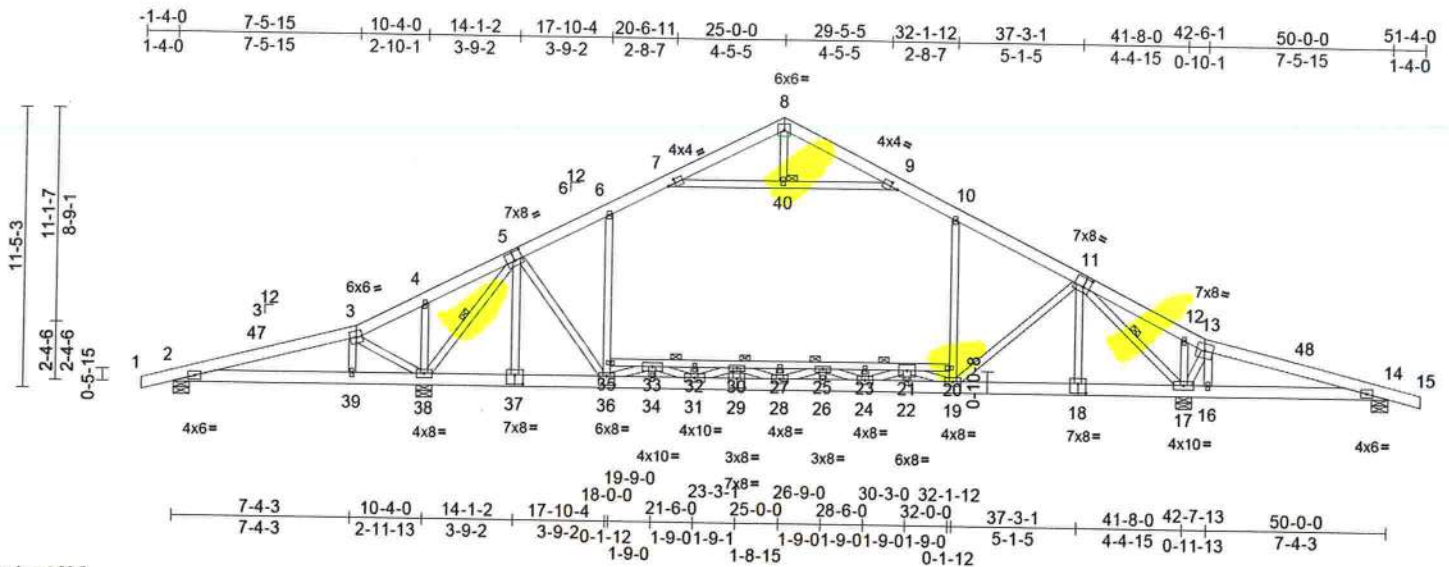
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	A02	Attic	16	1	T32516118

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:14
ID: bi9yBaJvf0uofnUS00A7LryBh9Z-RIC?PsB70Hq3NSgPqnL8w3ulTxbGKwRcDol7J4zJC?I

Page: 1



Scale = 1:90.5

Plate Offsets (X, Y): [5:0-4-0,0-4-8], [7:0-3-10,0-2-0], [9:0-3-10,0-2-0], [11:0-3-4,0-4-8], [18:0-4-0,0-4-8], [29:0-4-0,0-4-8], [36:0-4-0,0-4-4], [37:0-4-0,0-4-8]

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	0.68	Vert(LL)	-0.24	25-27	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.43	25-27	>865	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	17	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.16	20-35	>999	360	

Weight: 400 lb FT = 20%

LUMBER		WEBS									
TOP CHORD	2x6 SP No.2										
BOT CHORD	2x6 SP No.2 "Except" 35-20:2x4 SP No.2,										
	29-18,37-29:2x6 SP SS										
WEBS	2x4 SP No.2										
BRACING											
TOP CHORD	Structural wood sheathing directly applied.										
BOT CHORD	Rigid ceiling directly applied.										
WEBS	1 Row at midpt 5-38, 11-17										
JOINTS	1 Brace at Jt(s): 40										
REACTIONS	(size) 2=0-8-0, 14=0-8-0, 17=0-8-0,										
	38=0-8-0										
	Max Horiz 2=-185 (LC 10)										
	Max Uplift 2=-55 (LC 12), 14=-201 (LC 16)										
	Max Grav 2=446 (LC 1), 14=119 (LC 1),										
	17=2775 (LC 19), 38=2525 (LC 18)										

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/19, 2-3=-572/377, 13-14=0/1602, 14-15=0/19, 3-4=-295/701, 4-6=-1939/716, 6-7=-1704/42, 7-8=-481/91, 8-9=-473/93, 9-10=-1669/38, 10-12=-1905/1683, 12-13=0/1659
BOT CHORD	2-39=-322/550, 38-39=-332/542, 36-38=0/971, 34-36=0/2125, 31-34=0/2125, 28-31=0/4145, 26-28=0/4297, 24-26=0/4297, 22-24=0/2613, 19-22=0/2613, 17-19=0/1010, 16-17=-1514/0, 14-16=-1510/0, 33-35=0/174, 32-33=-1965/0, 30-32=-1965/0, 27-30=-2980/0, 25-27=-2980/0, 23-25=-2244/0, 21-23=-2244/0, 20-21=-30/64

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior (1) 3-8-0 to 25-0-0, Exterior(2R) 25-0-0 to 29-9-13, Interior (1) 29-9-13 to 51-4-0 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (10.0 psf) on member(s). 7-40, 9-40, 6-7, 9-10

- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 32-33, 30-32, 27-30, 25-27, 23-25, 21-23, 20-21
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 201 lb uplift at joint 14.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Attic room checked for L/360 deflection.

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:

January 4, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-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/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

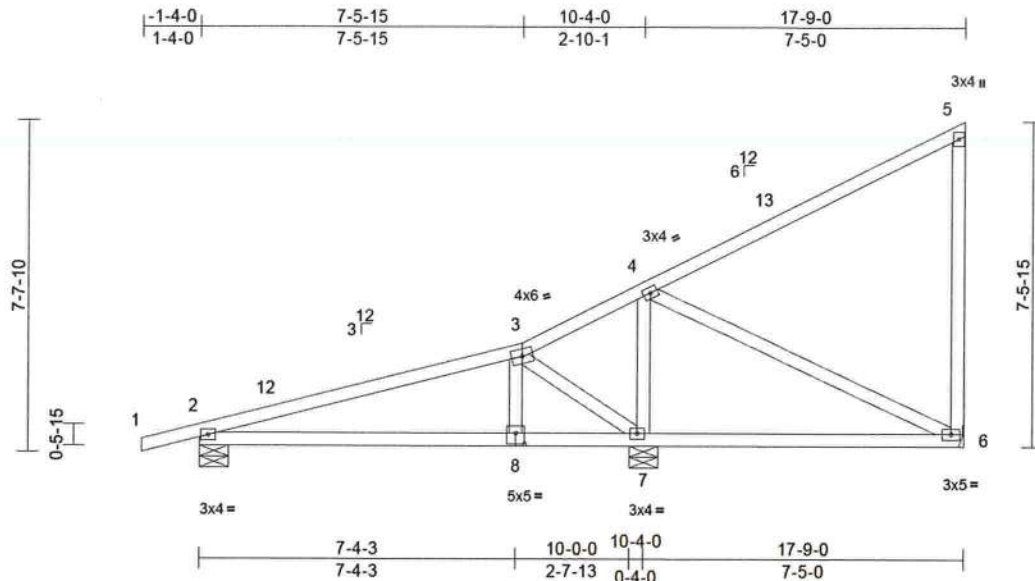
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	A2A	Jack-Closed	3	1	T32516119

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:11
ID: LuSOm7cGO90X0jdV7mT9kLyB2jn-RfC7PsB70Hq3NSgPqnL8w3uITXbGKwRCDot7J4zJC7f

Page: 1



Scale = 1:51.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	6-7	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.16	6-7	>553	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 91 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-8-0, 6= Mechanical, 7=0-8-0
Max Horiz 2=214 (LC 11)
Max Uplift 2=-32 (LC 12), 6=-40 (LC 9)
Max Grav 2=487 (LC 1), 6=279 (LC 17), 7=728 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-555/59, 3-4=-151/94, 4-5=-182/114, 5-6=-190/156
BOT CHORD 2-7=-220/489, 6-7=-186/146
WEBS 3-8=0/207, 3-7=-532/52, 4-7=-326/102, 4-6=-70/120

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) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 17-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, Joint 7 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2 and 40 lb uplift at joint 6.
- 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:

January 4, 2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

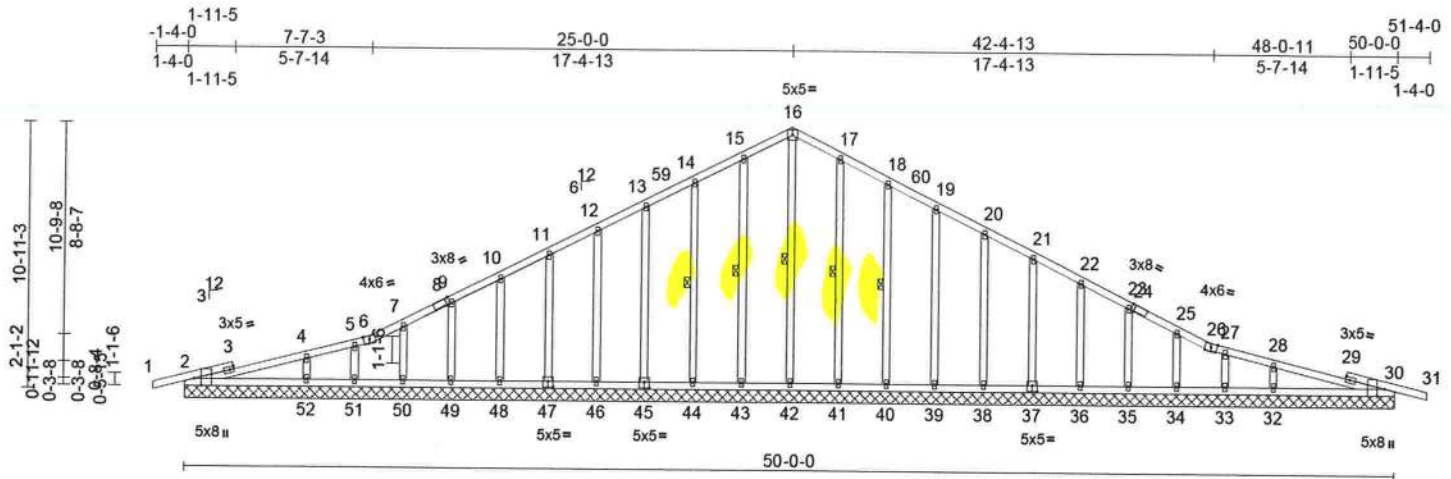
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1223-007	Truss A03	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32516120
-----------------	--------------	--	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:15
ID:CSweeZ2eJgndR7Y9H0VClayBh5M-RFC?PsB70Hq3NSgPqnl8w3uITXbGKwRcDOI7J4zJC7f

Page: 1



Scale = 1:91

Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-1-9,Edge], [24:0-1-9,Edge], [30:0-3-8,Edge], [37:0-2-8,0-3-0], [45:0-2-8,0-3-0], [47:0-2-8,0-3-0]

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	0.18	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	30	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 324 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.
WEBS 1 Row at midpt 16-42, 15-43, 14-44, 17-41, 18-40

REACTIONS (size)

2=50-0-0, 30=50-0-0, 32=50-0-0, 33=50-0-0, 34=50-0-0, 35=50-0-0, 36=50-0-0, 37=50-0-0, 38=50-0-0, 39=50-0-0, 40=50-0-0, 41=50-0-0, 42=50-0-0, 43=50-0-0, 44=50-0-0, 45=50-0-0, 46=50-0-0, 47=50-0-0, 48=50-0-0, 49=50-0-0, 50=50-0-0, 51=50-0-0, 52=50-0-0, 53=50-0-0, 56=50-0-0
Max Horiz 2=182 (LC 10), 53=182 (LC 10)
Max Uplift 2=24 (LC 12), 30=24 (LC 12), 33=3 (LC 12), 34=8 (LC 12), 35=13 (LC 12), 36=12 (LC 12), 37=12 (LC 12), 38=12 (LC 12), 39=11 (LC 12), 40=16 (LC 12), 41=2 (LC 12), 43=2 (LC 12), 44=16 (LC 12), 45=11 (LC 12), 46=12 (LC 12), 47=12 (LC 12), 48=12 (LC 12), 49=13 (LC 12), 50=8 (LC 12), 51=5 (LC 8), 53=24 (LC 12), 56=24 (LC 12)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension
1-2=0/19, 2-4=-123/143, 4-5=-128/126, 5-6=-125/129, 6-7=-123/141, 7-9=-126/131, 9-10=-115/119, 10-11=-106/108, 11-12=-97/133, 12-13=-87/166, 13-14=-91/199, 14-15=-110/234, 15-16=-126/262, 16-17=-126/253, 17-18=-110/214, 18-19=-91/179, 19-20=-73/146, 20-21=-54/113, 21-22=-36/79, 22-23=-42/47, 23-25=-50/55, 25-26=-63/67, 26-27=-66/53, 27-28=-77/53, 28-30=-103/73, 30-31=0/19, 31-32=-56/118, 32-33=-56/118, 33-34=-56/118, 34-35=-56/118, 35-36=-56/118, 36-38=-56/118, 38-39=-56/118, 39-40=-56/118, 40-41=-56/118, 41-42=-56/118, 42-43=-56/118, 43-44=-56/118, 44-46=-56/118, 46-48=-56/118, 48-49=-56/118, 49-50=-56/118, 50-51=-56/118, 51-52=-56/118, 52-53=-56/118, 53-54=-56/118, 54-55=-56/118, 55-56=-56/118, 56-57=-56/118, 57-58=-56/118, 58-59=-56/118, 59-60=-56/118, 60-61=-56/118, 61-62=-56/118, 62-63=-56/118, 63-64=-56/118, 64-65=-56/118, 65-66=-56/118, 66-67=-56/118, 67-68=-56/118, 68-69=-56/118, 69-70=-56/118, 70-71=-56/118, 71-72=-56/118, 72-73=-56/118, 73-74=-56/118, 74-75=-56/118, 75-76=-56/118, 76-77=-56/118, 77-78=-56/118, 78-79=-56/118, 79-80=-56/118, 80-81=-56/118, 81-82=-56/118, 82-83=-56/118, 83-84=-56/118, 84-85=-56/118, 85-86=-56/118, 86-87=-56/118, 87-88=-56/118, 88-89=-56/118, 89-90=-56/118, 90-91=-56/118, 91-92=-56/118, 92-93=-56/118, 93-94=-56/118, 94-95=-56/118, 95-96=-56/118, 96-97=-56/118, 97-98=-56/118, 98-99=-56/118, 99-100=-56/118, 100-101=-56/118, 101-102=-56/118, 102-103=-56/118, 103-104=-56/118, 104-105=-56/118, 105-106=-56/118, 106-107=-56/118, 107-108=-56/118, 108-109=-56/118, 109-110=-56/118, 110-111=-56/118, 111-112=-56/118, 112-113=-56/118, 113-114=-56/118, 114-115=-56/118, 115-116=-56/118, 116-117=-56/118, 117-118=-56/118, 118-119=-56/118, 119-120=-56/118, 120-121=-56/118, 121-122=-56/118, 122-123=-56/118, 123-124=-56/118, 124-125=-56/118, 125-126=-56/118, 126-127=-56/118, 127-128=-56/118, 128-129=-56/118, 129-130=-56/118, 130-131=-56/118, 131-132=-56/118, 132-133=-56/118, 133-134=-56/118, 134-135=-56/118, 135-136=-56/118, 136-137=-56/118, 137-138=-56/118, 138-139=-56/118, 139-140=-56/118, 140-141=-56/118, 141-142=-56/118, 142-143=-56/118, 143-144=-56/118, 144-145=-56/118, 145-146=-56/118, 146-147=-56/118, 147-148=-56/118, 148-149=-56/118, 149-150=-56/118, 150-151=-56/118, 151-152=-56/118, 152-153=-56/118, 153-154=-56/118, 154-155=-56/118, 155-156=-56/118, 156-157=-56/118, 157-158=-56/118, 158-159=-56/118, 159-160=-56/118, 160-161=-56/118, 161-162=-56/118, 162-163=-56/118, 163-164=-56/118, 164-165=-56/118, 165-166=-56/118, 166-167=-56/118, 167-168=-56/118, 168-169=-56/118, 169-170=-56/118, 170-171=-56/118, 171-172=-56/118, 172-173=-56/118, 173-174=-56/118, 174-175=-56/118, 175-176=-56/118, 176-177=-56/118, 177-178=-56/118, 178-179=-56/118, 179-180=-56/118, 180-181=-56/118, 181-182=-56/118, 182-183=-56/118, 183-184=-56/118, 184-185=-56/118, 185-186=-56/118, 186-187=-56/118, 187-188=-56/118, 188-189=-56/118, 189-190=-56/118, 190-191=-56/118, 191-192=-56/118, 192-193=-56/118, 193-194=-56/118, 194-195=-56/118, 195-196=-56/118, 196-197=-56/118, 197-198=-56/118, 198-199=-56/118, 199-200=-56/118, 200-201=-56/118, 201-202=-56/118, 202-203=-56/118, 203-204=-56/118, 204-205=-56/118, 205-206=-56/118, 206-207=-56/118, 207-208=-56/118, 208-209=-56/118, 209-210=-56/118, 210-211=-56/118, 211-212=-56/118, 212-213=-56/118, 213-214=-56/118, 214-215=-56/118, 215-216=-56/118, 216-217=-56/118, 217-218=-56/118, 218-219=-56/118, 219-220=-56/118, 220-221=-56/118, 221-222=-56/118, 222-223=-56/118, 223-224=-56/118, 224-225=-56/118, 225-226=-56/118, 226-227=-56/118, 227-228=-56/118, 228-229=-56/118, 229-230=-56/118, 230-231=-56/118, 231-232=-56/118, 232-233=-56/118, 233-234=-56/118, 234-235=-56/118, 235-236=-56/118, 236-237=-56/118, 237-238=-56/118, 238-239=-56/118, 239-240=-56/118, 240-241=-56/118, 241-242=-56/118, 242-243=-56/118, 243-244=-56/118, 244-245=-56/118, 245-246=-56/118, 246-247=-56/118, 247-248=-56/118, 248-249=-56/118, 249-250=-56/118, 250-251=-56/118, 251-252=-56/118, 252-253=-56/118, 253-254=-56/118, 254-255=-56/118, 255-256=-56/118, 256-257=-56/118, 257-258=-56/118, 258-259=-56/118, 259-260=-56/118, 260-261=-56/118, 261-262=-56/118, 262-263=-56/118, 263-264=-56/118, 264-265=-56/118, 265-266=-56/118, 266-267=-56/118, 267-268=-56/118, 268-269=-56/118, 269-270=-56/118, 270-271=-56/118, 271-272=-56/118, 272-273=-56/118, 273-274=-56/118, 274-275=-56/118, 275-276=-56/118, 276-277=-56/118, 277-278=-56/118, 278-279=-56/118, 279-280=-56/118, 280-281=-56/118, 281-282=-56/118, 282-283=-56/118, 283-284=-56/118, 284-285=-56/118, 285-286=-56/118, 286-287=-56/118, 287-288=-56/118, 288-289=-56/118, 289-290=-56/118, 290-291=-56/118, 291-292=-56/118, 292-293=-56/118, 293-294=-56/118, 294-295=-56/118, 295-296=-56/118, 296-297=-56/118, 297-298=-56/118, 298-299=-56/118, 299-300=-56/118, 300-301=-56/118, 301-302=-56/118, 302-303=-56/118, 303-304=-56/118, 304-305=-56/118, 305-306=-56/118, 306-307=-56/118, 307-308=-56/118, 308-309=-56/118, 309-310=-56/118, 310-311=-56/118, 311-312=-56/118, 312-313=-56/118, 313-314=-56/118, 314-315=-56/118, 315-316=-56/118, 316-317=-56/118, 317-318=-56/118, 318-319=-56/118, 319-320=-56/118, 320-321=-56/118, 321-322=-56/118, 322-323=-56/118, 323-324=-56/118, 324-325=-56/118, 325-326=-56/118, 326-327=-56/118, 327-328=-56/118, 328-329=-56/118, 329-330=-56/118, 330-331=-56/118, 331-332=-56/118, 332-333=-56/118, 333-334=-56/118, 334-335=-56/118, 335-336=-56/118, 336-337=-56/118, 337-338=-56/118, 338-339=-56/118, 339-340=-56/118, 340-341=-56/118, 341-342=-56/118, 342-343=-56/118, 343-344=-56/118, 344-345=-56/118, 345-346=-56/118, 346-347=-56/118, 347-348=-56/118, 348-349=-56/118, 349-350=-56/118, 350-351=-56/118, 351-352=-56/118, 352-353=-56/118, 353-354=-56/118, 354-355=-56/118, 355-356=-56/118, 356-357=-56/118, 357-358=-56/118, 358-359=-56/118, 359-360=-56/118, 360-361=-56/118, 361-362=-56/118, 362-363=-56/118, 363-364=-56/118, 364-365=-56/118, 365-366=-56/118, 366-367=-56/118, 367-368=-56/118, 368-369=-56/118, 369-370=-56/118, 370-371=-56/118, 371-372=-56/118, 372-373=-56/118, 373-374=-56/118, 374-375=-56/118, 375-376=-56/118, 376-377=-56/118, 377-378=-56/118, 378-379=-56/118, 379-380=-56/118, 380-381=-56/118, 381-382=-56/118, 382-383=-56/118, 383-384=-56/118, 384-385=-56/118, 385-386=-56/118, 386-387=-56/118, 387-388=-56/118, 388-389=-56/118, 389-390=-56/118, 390-391=-56/118, 391-392=-56/118, 392-393=-56/118, 393-394=-56/118, 394-395=-56/118, 395-396=-56/118, 396-397=-56/118, 397-398=-56/118, 398-399=-56/118, 399-400=-56/118, 400-401=-56/118, 401-402=-56/118, 402-403=-56/118, 403-404=-56/118, 404-405=-56/118, 405-406=-56/118, 406-407=-56/118, 407-408=-56/118, 408-409=-56/118, 409-410=-56/118, 410-411=-56/118, 411-412=-56/118, 412-413=-56/118, 413-414=-56/118, 414-415=-56/118, 415-416=-56/118, 416-417=-56/118, 417-418=-56/118, 418-419=-56/118, 419-420=-56/118, 420-421=-56/118, 421-422=-56/118, 422-423=-56/118, 423-424=-56/118, 424-425=-56/118, 425-426=-56/118, 426-427=-56/118, 427-428=-56/118, 428-429=-56/118, 429-430=-56/118, 430-431=-56/118, 431-432=-56/118, 432-433=-56/118, 433-434=-56/118, 434-435=-56/118, 435-436=-56/118, 436-437=-56/118, 437-438=-56/118, 438-439=-56/118, 439-440=-56/118, 440-441=-56/118, 441-442=-56/118, 442-443=-56/118, 443-444=-56/118, 444-445=-56/118, 445-446=-56/118, 446-447=-56/118, 447-448=-56/118, 448-449=-56/118, 449-450=-56/118, 450-451=-56/118, 451-452=-56/118, 452-453=-56/118, 453-454=-56/118, 454-455=-56/118, 455-456=-56/118, 456-457=-56/118, 457-458=-56/118, 458-459=-56/118, 459-460=-56/118, 460-461=-56/118, 461-462=-56/118, 462-463=-56/118, 463-464=-56/118, 464-465=-56/118, 465-466=-56/118, 466-467=-56/118, 467-468=-56/118, 468-469=-56/118, 469-470=-56/118, 470-471=-56/118, 471-472=-56/118, 472-473=-56/118, 473-474=-56/118, 474-475=-56/118, 475-476=-56/118, 476-477=-56/118, 477-478=-56/118, 478-479=-56/118, 479-480=-56/118, 480-481=-56/118, 481-482=-56/118, 482-483=-56/118, 483-484=-56/118, 484-485=-56/118, 485-486=-56/118, 486-487=-56/118, 487-488=-56/118, 488-489=-56/118, 489-490=-56/118, 490-491=-56/118, 491-492=-56/118, 492-493=-56/118, 493-494=-56/118, 494-495=-56/118, 495-496=-56/118, 496-497=-56/118, 497-498=-56/118, 498-499=-56/118, 499-500=-56/118, 500-501=-56/118, 501-502=-56/118, 502-503=-56/118, 503-504=-56/118, 504-505=-56/118, 505-506=-56/118, 506-507=-56/118, 507-508=-56/118, 508-509=-56/118, 509-510=-56/118, 510-511=-56/118, 511-512=-56/118, 512-513=-56/118, 513-514=-56/118, 514-515=-56/118, 515-516=-56/118, 516-517=-56/118, 517-518=-56/118, 518-519=-56/118, 519-520=-56/118, 520-521=-56/118, 521-522=-56/118, 522-523=-56/118, 523-524=-56/118, 524-525=-56/118, 525-526=-56/118, 526-527=-56/118, 527-528=-56/118, 528-529=-56/118, 529-530=-56/118, 530-531=-56/118, 531-532=-56/118, 532-533=-56/118, 533-534=-56/118, 534-535=-56/118, 535-536=-56/118, 536-537=-56/118, 537-538=-56/118, 538-539=-56/118, 539-540=-56/118, 540-541=-56/118, 541-542=-56/118, 542-543=-56/118, 543-544=-56/118, 544-545=-56/118, 545-546=-56/118, 546-547=-56/118, 547-548=-56/118, 548-549=-56/118, 549-550=-56/118, 550-551=-56/118, 551-552=-56/118, 552-553=-56/118, 553-554=-56/118, 554-555=-56/118, 555-556=-56/118, 556-557=-56/118, 557-558=-56/118, 558-559=-56/118, 559-560=-56/118, 560-561=-56/118, 561-562=-56/118, 562-563=-56/118, 563-564=-56/118, 564-565=-56/118, 565-566=-56/118, 566-567=-56/118, 567-568=-56/118, 568-569=-56/118, 569-570=-56/118, 570-571=-56/118, 571-572=-56/118, 572-573=-56/118, 573-574=-56/118, 574-575=-56/118, 575-576=-56/118, 576-577=-56/118, 577-578=-56/118, 578-579=-56/118, 579-580=-56/118, 580-581=-56/118, 581-582=-56/118, 582-583=-56/118, 583-584=-56/118, 584-585=-56/118, 585-586=-56/118, 586-587=-56/118, 587-588=-56/118, 588-589=-56/118, 589-590=-56/118, 590-591=-56/118, 591-592=-56/118, 592-593=-56/118, 593-594=-56/118, 594-595=-56/118, 595-596=-56/118, 596-597=-56/118, 597-598=-56/118, 598-599=-56/118, 599-600=-56/118, 600-601=-56/118, 601-602=-56/118, 602-603=-56/118, 603-604=-56/118, 604-605=-56/118, 605-606=-56/118, 606-607=-56/118, 607-608=-56/118, 608-609=-56/118, 609-610=-56/118, 610-611=-56/118, 611-612=-56/118, 612-613=-56/118, 613-614=-56/118, 614-615=-56/118, 615-616=-56/118, 616-617=-56/118, 617-618=-56/118, 618-619=-56/118, 619-620=-56/118, 620-621=-56/118, 621-622=-56/118, 622-623=-56/118, 623-624=-56/118, 624-625=-56/118, 625-626=-56/118, 626-627=-56/118, 627-628=-56/118, 628-629=-56/118, 629-630=-56/118, 630-631=-56/118, 631-632=-56/118, 632-633=-56/118, 633-634=-56/118, 634-635=-56/118, 635-636=-56/118, 636-637=-56/118, 637-638=-56/118, 638-639=-56/118, 639-640=-56/118, 640-641=-56/118, 641-64

Job 1223-007	Truss A03	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32516120
-----------------	--------------	--	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:15
ID:CSweeZZeJgndR7Y9H0VClayBh5M-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?l

Page: 2

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 30, 2 lb uplift at joint 43, 16 lb uplift at joint 44, 11 lb uplift at joint 45, 12 lb uplift at joint 46, 12 lb uplift at joint 47, 12 lb uplift at joint 48, 13 lb uplift at joint 49, 8 lb uplift at joint 50, 5 lb uplift at joint 51, 2 lb uplift at joint 41, 16 lb uplift at joint 40, 11 lb uplift at joint 39, 12 lb uplift at joint 38, 12 lb uplift at joint 37, 12 lb uplift at joint 36, 13 lb uplift at joint 35, 8 lb uplift at joint 34, 3 lb uplift at joint 33, 24 lb uplift at joint 2 and 24 lb uplift at joint 30.
- 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 MITTEK 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 OSB-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®

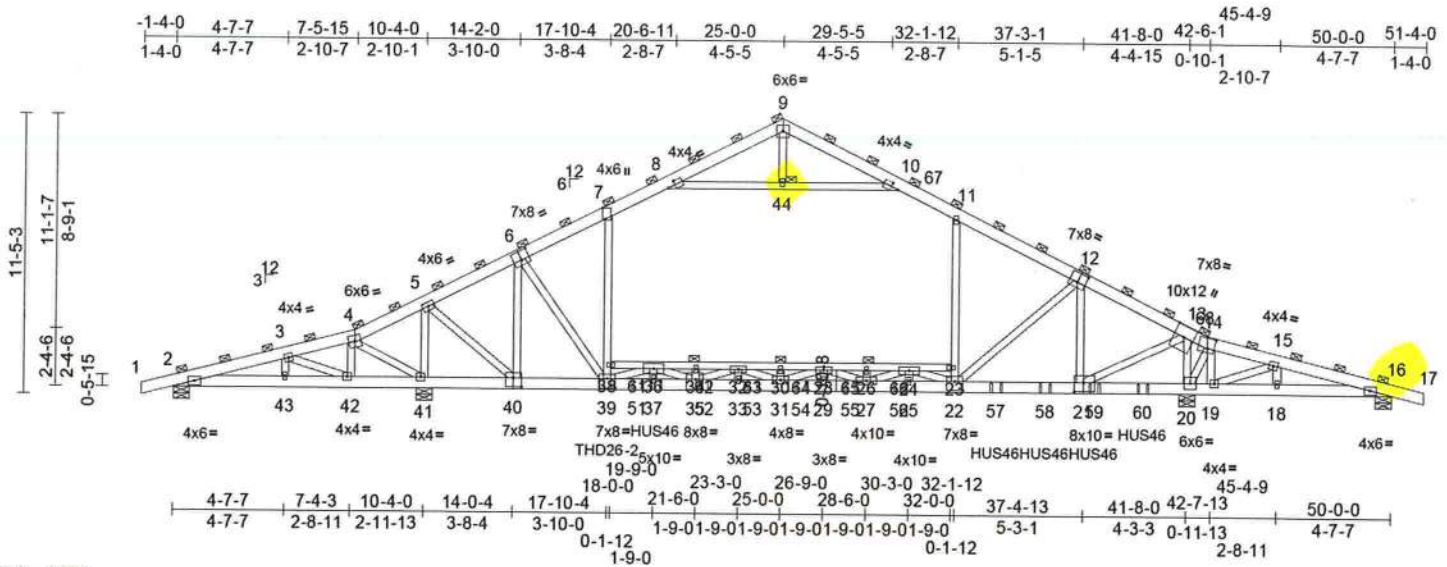
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	A04	Attic Girder	6	2	T32516121

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:16
ID:bi9yBaJvfuofnUS00A7LryBh9Z-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCdci7J4zJC?i

Page: 1



Scale = 1:90.5

Plate Offsets (X, Y): [6:0-4-0,0-4-8], [7:0-5-10,Edge], [8:0-3-10,0-2-0], [10:0-3-10,0-2-0], [12:0-4-0,0-4-8], [14:0-3-4,0-5-0], [21:0-4-8,0-4-8], [22:0-4-0,0-4-8], [35:0-3-8,0-5-0], [39:0-4-0,0-4-12], [40:0-4-0,0-4-8]

Loading	(psf)	Spacing	3-7-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.43	26-28	>874	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.65	26-28	>574	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	20	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	Attic	-0.26	23-38	>671	360	Weight: 812 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP SS "Except" 4-6:2x6 SP No.2
BOT CHORD 2x6 SP No.2 "Except" 38-23:2x4 SP No.2,
35-21,40-35:2x6 SP SS
WEBS 2x4 SP No.2 "Except" 7-39,11-22:2x4 SP
No.1, 13-21:2x4 SP SS

BRACING
TOP CHORD 2-0-0 oc purlins (5-1-10 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 3-10-15 oc
bracing.

JOINTS
1 Brace at Jt(s): 4,
14, 9, 44

REACTIONS (size) 2=0-8-0, 16=0-8-0, 20=0-8-0,
41=0-8-0
Max Horiz 2=-331 (LC 6)
Max Uplift 2=-217 (LC 27), 16=-1736 (LC 12)
Max Grav 2=931 (LC 1), 16=-14 (LC 25),
20=10985 (LC 15), 41=5439 (LC
14)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/35, 2-3=-2033/644, 3-4=-1436/788,
14-15=0/8407, 15-16=0/7247, 16-17=0/35,
4-5=-990/764, 5-7=-5479/0, 7-8=-4610/0,
8-9=-733/174, 9-10=-705/224,
10-11=-4669/0, 11-13=-5907/0, 13-14=0/8222
BOT CHORD 2-43=-482/1718, 42-43=-482/1718,
41-42=-590/1379, 39-41=-470/3298,
37-39=0/5420, 33-37=0/11297,
31-33=0/11297, 29-31=0/11992,
27-29=0/11992, 25-27=0/7619,
22-25=0/7619, 20-22=-7519/3221,
19-20=-8092/0, 18-19=-6967/0,
16-18=-6967/0, 36-38=0/647, 34-36=-4891/0,
32-34=-4891/0, 30-32=-7817/0,
28-30=-7817/0, 26-28=-6169/0,
24-26=-6169/0, 23-24=-130/72

WEBS
3-43=0/262, 3-42=-857/15, 4-42=0/337,
4-41=-828/187, 38-39=0/1788, 7-38=0/1944,
22-23=-130/1111, 11-23=-61/1306,
12-22=0/2100, 12-21=-5197/0, 14-19=-449/7,
15-19=-1255/0, 15-18=0/421, 8-44=-4658/0,
10-44=-4658/0, 9-44=0/386, 36-37=-1388/0,
34-35=-245/0, 32-33=-14/324, 30-31=-272/0,
28-29=0/381, 26-27=-284/0, 24-25=-175/105,
22-24=-3745/0, 24-27=0/2953,
27-28=-1847/0, 28-31=-75/105, 31-32=0/821,
32-35=-2487/0, 35-36=0/4034,
36-39=-2018/2, 5-41=-4557/0, 6-40=-3552/0,
5-40=0/4061, 6-39=0/2300, 13-20=-1121/0,
14-20=0/1477, 13-21=0/11714

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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; TCCL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=50ft; eave=6ft; 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.

- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s): 8-44, 10-44, 7-8, 10-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room: 36-38, 34-36, 32-34, 30-32, 28-30, 26-28, 24-26, 23-24
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 1736 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

January 4, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinstitute.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	Job Reference (optional)
1223-007	A04	Attic Girder	6	2	T32516121

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:16
ID:bi9yBajv0uofnUS00A7LryBh9Z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?l

Page: 2

- 14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 15) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 17-10-8 from the left end to connect truss(es) to back face of bottom chord.
- 16) Use MiTek HUS46 (With 4-16d nails into Girder & 4-16d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 19-1-4 from the left end to 39-10-4 to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down at 32-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 19) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-108, 14-17=-108, 45-48=-36, 23-38=-54, 8-44=-36, 10-44=-36, 4-7=-108, 7-8=-143, 8-9=-108, 9-10=-107, 10-67=-143, 14-68=-107
Concentrated Loads (lb)
Vert: 39=-266 (B), 22=-32 (B), 37=-32 (B), 51=-32 (B), 52=-32 (B), 53=-32 (B), 54=-32 (B), 55=-32 (B), 56=-32 (B), 57=-32 (B), 58=-32 (B), 59=-32 (B), 60=-32 (B)
Trapezoidal Loads (lb/ft)
Vert: 67=-287 (F=-144)-to-11=-296 (F=-152), 11=-260 (F=-152)-to-12=-291 (F=-184), 12=-291 (F=-184)-to-13=-318 (F=-211), 13=-318 (F=-211)-to-68=-321 (F=-213)



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/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 Component Association (www.sbcsccomponents.com)

MiTek®

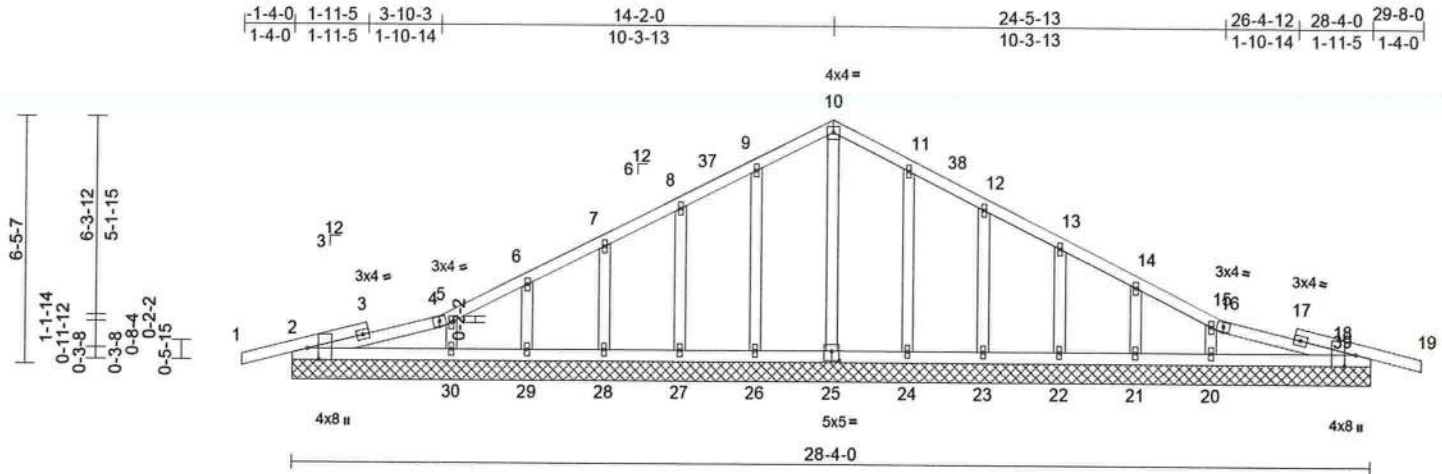
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	B01	Roof Special Supported Gable	1	1	T32516122

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:17
ID: A0FpclECp4A2_K5gM7zZLgyBh3C-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrd0i7J4zJC?i

Page: 1



Scale = 1:57.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [18:0-3-8,Edge], [25:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	18	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 147 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size) 2=28-4-0, 18=28-4-0, 20=28-4-0,
21=28-4-0, 22=28-4-0, 23=28-4-0,
24=28-4-0, 25=28-4-0, 26=28-4-0,
27=28-4-0, 28=28-4-0, 29=28-4-0,
30=28-4-0, 31=28-4-0, 34=28-4-0
Max Horiz 2=95 (LC 10), 31=95 (LC 10)
Max Uplift 2=31 (LC 12), 18=48 (LC 12),
21=16 (LC 12), 22=11 (LC 12),
23=14 (LC 12), 24=9 (LC 12),
26=9 (LC 12), 27=14 (LC 12),
28=10 (LC 12), 29=18 (LC 12),
31=31 (LC 12), 34=48 (LC 12)
Max Grav 2=235 (LC 23), 18=220 (LC 24),
20=300 (LC 24), 21=107 (LC 18),
22=175 (LC 24), 23=155 (LC 1),
24=168 (LC 24), 25=160 (LC 1),
26=168 (LC 23), 27=155 (LC 1),
28=175 (LC 23), 29=107 (LC 17),
30=303 (LC 23), 31=235 (LC 23),
34=220 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum
Tension
1-2=0/19, 2-4=-65/78, 4-5=-61/95,
5-6=-72/72, 6-7=-54/72, 7-8=-48/81,
8-9=-49/115, 9-10=-68/146, 10-11=-68/137,
11-12=-49/104, 12-13=-31/70, 13-14=-23/43,
14-15=-41/40, 15-16=-51/68, 16-18=-55/48,
18-19=0/22

BOT CHORD

2-30=-36/70, 29-30=-36/70, 28-29=-36/70,
27-28=-36/70, 26-27=-36/70, 24-26=-36/70,
23-24=-36/70, 22-23=-36/70, 21-22=-36/70,
20-21=-36/70, 18-20=-36/243
WEBS
10-25=-120/0, 9-26=-128/97, 8-27=-117/57,
7-28=-127/51, 6-29=-94/51, 5-30=-196/50,
11-24=-128/97, 12-23=-117/57,
13-22=-127/51, 14-21=-93/50, 15-20=-195/48

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=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-7-3, Exterior(2N) 1-7-3 to 14-2-0, Corner(3R) 14-2-0 to 17-2-0, Exterior(2N) 17-2-0 to 29-8-0 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 48 lb uplift at joint 18, 9 lb uplift at joint 26, 14 lb uplift at joint 27, 10 lb uplift at joint 28, 18 lb uplift at joint 29, 9 lb uplift at joint 24, 14 lb uplift at joint 23, 11 lb uplift at joint 22, 16 lb uplift at joint 21, 31 lb uplift at joint 2 and 48 lb uplift at joint 18.
- 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:

January 4, 2024

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/TPIH Quality Criteria and D9B-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)

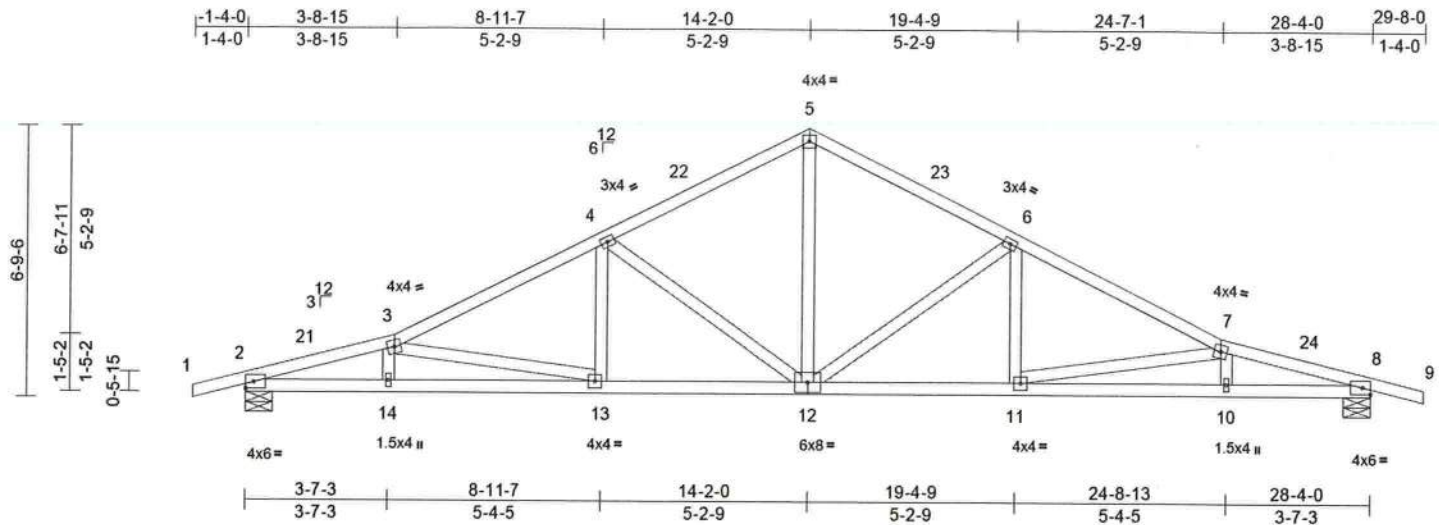
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	B02	Roof Special	13	1	T32516123

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:17
ID:QA22c8Bqfra3QDUps0tZvryBh0g-RfC?Psb70Hq3NSgPqnL8w3uITxbGKwCDol7J4zJC7f

Page: 1



Scale = 1:55.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.18	13-14	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.38	13-14	>904	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.09	8	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 148 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-8-0, 8=0-8-0
Max Horiz 2=98 (LC 11)
Max Uplift 2=-32 (LC 12), 8=-32 (LC 12)
Max Grav 2=1213 (LC 1), 8=1213 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-3167/259, 3-4=-2180/221,
4-5=-1505/214, 5-6=-1505/214,
6-7=-2180/221, 7-8=-3167/259, 8-9=0/19
BOT CHORD 2-14=-223/3029, 13-14=-232/3040,
11-13=-114/1919, 10-11=-231/3040,
8-10=-222/3029

WEBS

7-10=-83/75, 3-14=-83/75, 4-13=0/444,
3-13=-1147/121, 4-12=-790/124,
5-12=-74/999, 6-12=-790/124, 6-11=0/444,
7-11=-1147/121

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-4-0 to
1-8-0, Interior (1) 1-8-0 to 14-2-0, Exterior(2R) 14-2-0 to
17-2-0, Interior (1) 17-2-0 to 29-8-0 zone; cantilever left
and right exposed; end vertical left and right exposed; C-
C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) All bearings are assumed to be SP No.1.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 32 lb uplift at joint
2 and 32 lb uplift at joint 8.
- 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:

January 4, 2024

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/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinstitute.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

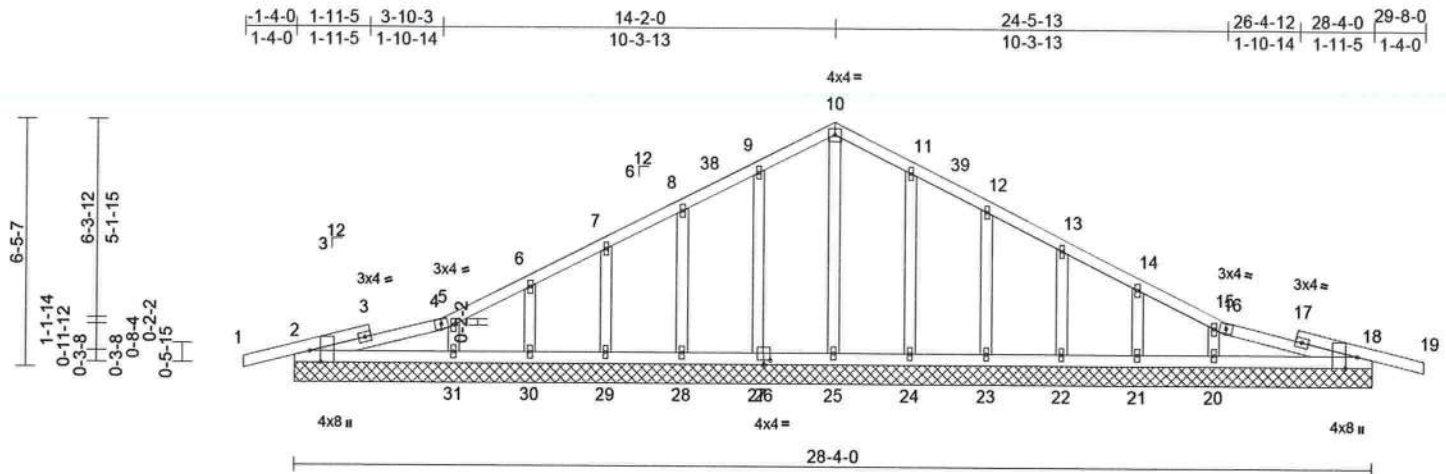
Job 1223-007	Truss B03	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32516124
-----------------	--------------	--	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:18

Page: 1

ID: z3bNg27stR0ZzW6hHbaG7zyBh7d-RfC?Psb70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC7f



Scale = 1:57.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [18:0-3-8,Edge], [26:0-2-0,0-1-4]

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	0.12	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	18	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 147 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size) 2=28-4-0, 18=28-4-0, 20=28-4-0,
21=28-4-0, 22=28-4-0, 23=28-4-0,
24=28-4-0, 25=28-4-0, 27=28-4-0,
28=28-4-0, 29=28-4-0, 30=28-4-0,
31=28-4-0, 32=28-4-0, 35=28-4-0
Max Horiz 2=95 (LC 10), 32=95 (LC 10)
Max Uplift 2=32 (LC 12), 18=32 (LC 12),
21=18 (LC 12), 22=10 (LC 12),
23=14 (LC 12), 24=9 (LC 12),
27=9 (LC 12), 28=14 (LC 12),
29=10 (LC 12), 30=18 (LC 12),
32=32 (LC 12), 35=32 (LC 12)
Max Grav 2=235 (LC 23), 18=235 (LC 24),
20=304 (LC 24), 21=106 (LC 18),
22=175 (LC 24), 23=155 (LC 1),
24=168 (LC 24), 25=153 (LC 1),
27=168 (LC 23), 28=155 (LC 1),
29=175 (LC 23), 30=107 (LC 17),
31=304 (LC 23), 32=235 (LC 23),
35=235 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-4=-64/75, 4-5=-59/90,
5-6=-77/70, 6-7=-59/66, 7-8=-54/82,
8-9=-53/117, 9-10=-71/148, 10-11=-71/138,
11-12=-53/106, 12-13=-35/71, 13-14=-28/38,
14-15=-46/33, 15-16=-49/62, 16-18=-54/42,
18-19=0/19

BOT CHORD

2-31=-33/69, 30-31=-33/69, 29-30=-33/69,
28-29=-33/69, 27-28=-33/69, 25-27=-33/69,
24-25=-33/69, 23-24=-33/69, 22-23=-33/69,
21-22=-33/69, 20-21=-33/69, 18-20=-33/69
10-25=-114/2, 9-27=-128/97, 8-28=-117/57,
7-29=-127/51, 6-30=-94/51, 5-31=-197/50,
11-24=-128/97, 12-23=-117/57,
13-22=-127/50, 14-21=-93/50, 15-20=-197/47

WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-7-3, Exterior(2N) 1-7-3 to 14-2-0, Corner(3R) 14-2-0 to 17-2-0, Exterior(2N) 17-2-0 to 29-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2, 32 lb uplift at joint 18, 9 lb uplift at joint 27, 14 lb uplift at joint 28, 10 lb uplift at joint 29, 18 lb uplift at joint 30, 9 lb uplift at joint 24, 14 lb uplift at joint 23, 10 lb uplift at joint 22, 18 lb uplift at joint 21, 32 lb uplift at joint 2 and 32 lb uplift at joint 18.
- 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



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

January 4, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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/TPI 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

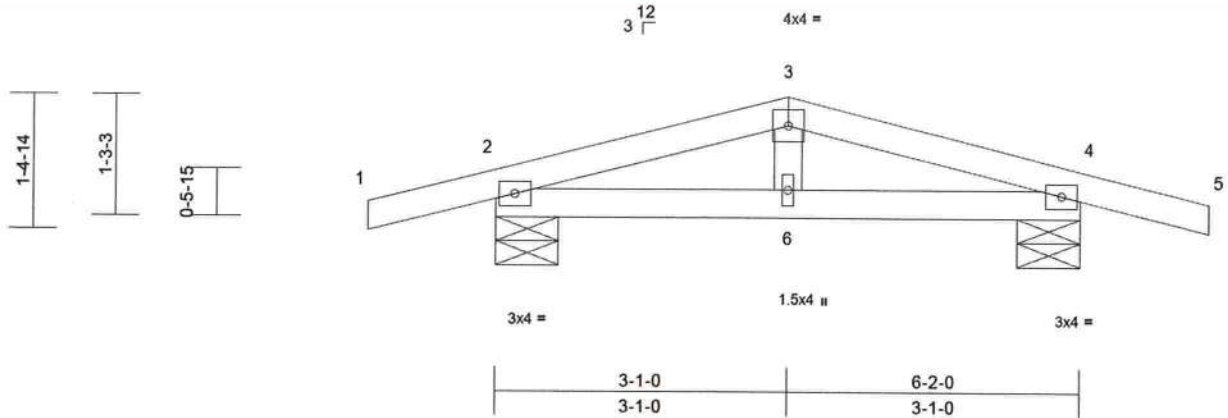
Job 1223-007	Truss C01	Truss Type Common	Qty 4	Ply 1	Job Reference (optional) T32516125
-----------------	--------------	----------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:18
ID:J10Gjm3_izfr3l_f48ARq0yBh?Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDci7J4zJC?l

Page: 1

-1-4-0	3-1-0	6-2-0	7-6-0
1-4-0	3-1-0	3-1-0	1-4-0



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.01	6-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	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
WEBS 2x4 SP No.2

BRACING

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

REACTIONS (size) 2=0-8-0, 4=0-8-0
Max Horiz 2=13 (LC 8)
Max Uplift 2=-33 (LC 12), 4=-33 (LC 12)
Max Grav 2=327 (LC 1), 4=327 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-368/180, 3-4=-368/180, 4-5=0/19
BOT CHORD 2-6=-123/334, 4-6=-123/334
WEBS 3-6=0/99

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) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-1-0, Exterior(2R) 3-1-0 to 6-2-0, Interior (1) 6-2-0 to 7-6-0 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2 and 33 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 4, 2024

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/TPH 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

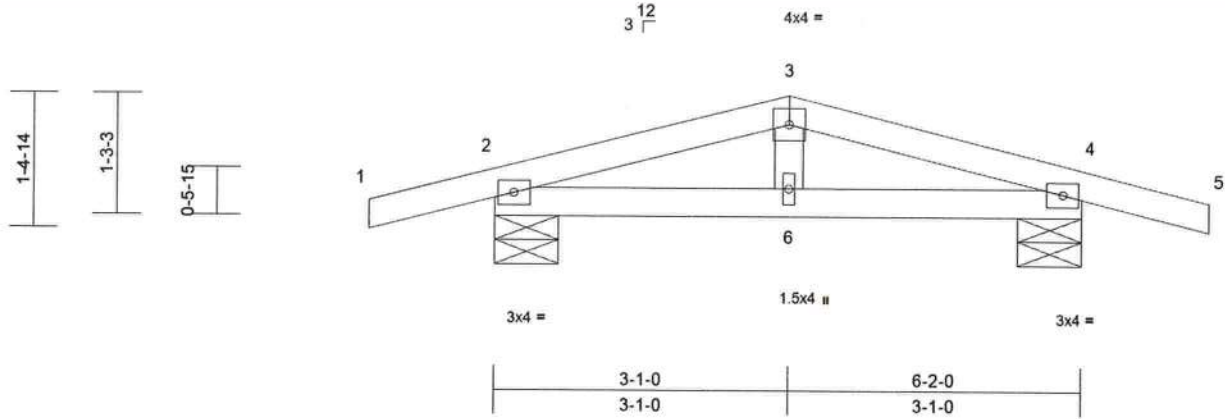
Job 1223-007	Truss C02	Truss Type Common	Qty 1	Ply 1	Job Reference (optional) T32516126
-----------------	--------------	----------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:18
ID:8BIYzp8IHpP?nDSOQPHr4HyBh?S-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDdi7J4zJC?I

Page: 1

-1-4-0	3-1-0	6-2-0	7-6-0
1-4-0	3-1-0	3-1-0	1-4-0



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.01	6-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	6	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	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
WEBS 2x4 SP No.2

BRACING

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

REACTIONS

(size) 2=0-8-0, 4=0-8-0
Max Horiz 2=13 (LC 8)
Max Uplift 2=-33 (LC 12), 4=-33 (LC 12)
Max Grav 2=327 (LC 1), 4=327 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-368/180, 3-4=-368/180, 4-5=0/19
BOT CHORD 2-6=-123/334, 4-6=-123/334
WEBS 3-6=0/99

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) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-1-0, Exterior(2R) 3-1-0 to 6-2-0, Interior (1) 6-2-0 to 7-6-0 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2 and 33 lb uplift at joint 4.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

January 4, 2024

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

MiTek®

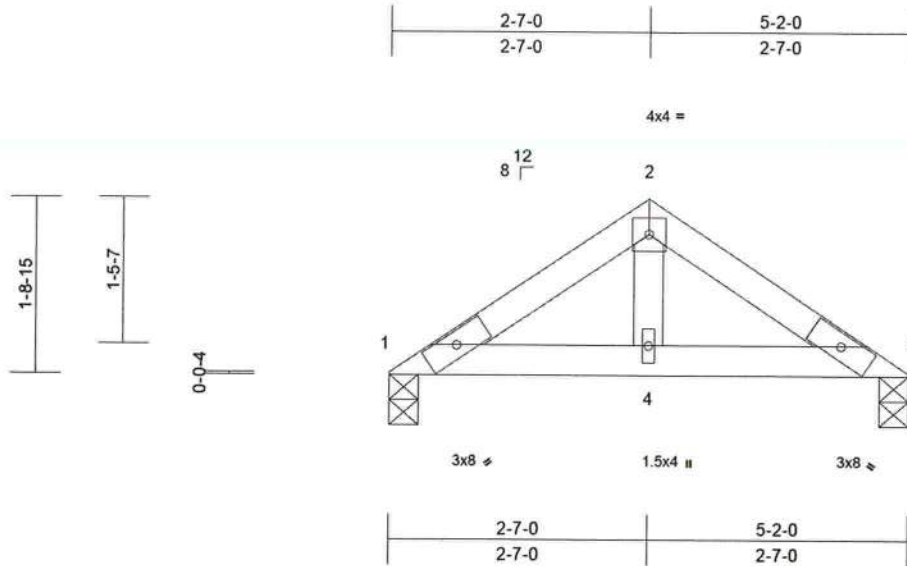
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1223-007	Truss D01	Truss Type Common	Qty 1	Ply 1	Job Reference (optional) T32516127
-----------------	--------------	----------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:18
ID:5IV?aYZvqE0vpiLApk7OqVyB0hR-RIC?PsB70Hq3NSgPqnl8w3uITXbGKWrcDai7J4zJC?I

Page: 1



Scale = 1:21.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 17 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 (size) 1=0-3-8, 3=0-3-8
Max Horiz 1=29 (LC 11)
Max Grav 1=195 (LC 1), 3=195 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-268/89, 2-3=-268/89
BOT CHORD 1-4=-55/206, 3-4=-55/206
WEBS 2-4=-31/135

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) 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 .

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:

January 4, 2024

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.tpinstitute.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

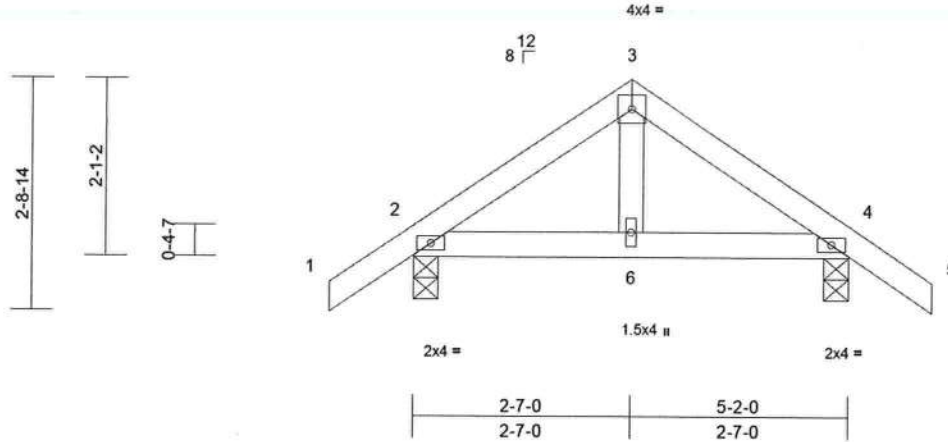
Job 1223-007	Truss D02	Truss Type Common	Qty 14	Ply 1	Job Reference (optional) T32516128
-----------------	--------------	----------------------	-----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:19
ID:95sqb2L7JPdb1nOWCEHxZUyB0hk-RfC?Psb70Hq3NSgPqnL8w3uITXbGKWrcDci7J4zJC?i

Page: 1

-1-0-0	2-7-0	5-2-0	6-2-0
1-0-0	2-7-0	2-7-0	1-0-0



Scale = 1:26.1

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	0.06	Vert(LL)	0.00	6-12	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	6-12	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 23 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS (size)

2=0-3-8, 4=0-3-8
Max Horiz 2=44 (LC 11)
Max Uplift 2=-25 (LC 12), 4=-25 (LC 12)
Max Grav 2=267 (LC 1), 4=267 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/33, 2-3=-213/61, 3-4=-213/61,
4-5=0/33

BOT CHORD 2-6=0/148, 4-6=0/148

WEBS 3-6=0/114

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) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-7-0, Exterior(2R) 2-7-0 to 5-7-0, Interior (1) 5-7-0 to 6-2-0 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 4, 2024

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 BCSP Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

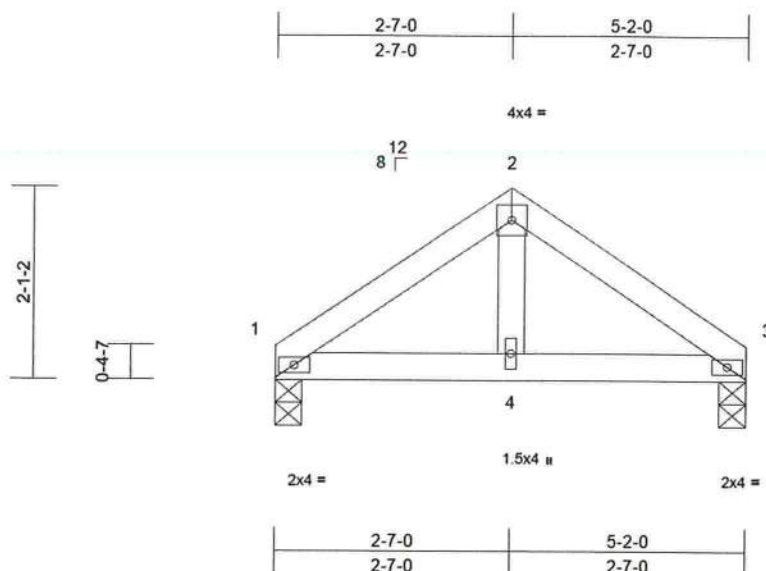
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	D03	Common	3	1	T32516129

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:19
ID:KyUYK?GEJZsSJsxNr_AXKdyB0hq-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKWrcDol7J4zJC?f

Page: 1



Scale = 1:24.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	0.00	4-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	4-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 20 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

(size) 1=0-3-8, 3=0-3-8
Max Horiz 1=-32 (LC 10)
Max Grav 1=207 (LC 1), 3=207 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-229/85, 2-3=-229/85
BOT CHORD 1-4=-24/165, 3-4=-24/165
WEBS 2-4=-15/121

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) 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.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:

January 4, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BC91 Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

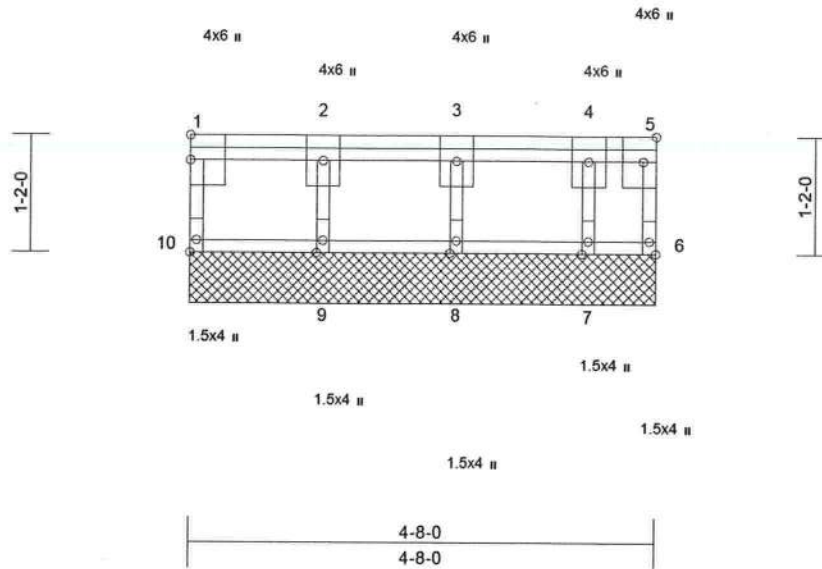
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1223-007	Truss F01	Truss Type Floor Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32516130
-----------------	--------------	-------------------------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Thu Jan 04 08:27:30
ID:8sgFZAGTdIhQr34svmHyB2hG-CygpB41YpI5cLm2XJKZZ2piHTtv511HrUlnyc8zyosy

Page: 1



Scale = 1:22.1

Plate Offsets (X, Y): [5:0-3-0,Edge], [6:Edge,0-0-12], [10:Edge,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-R							
										Weight: 27 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or
4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS

All bearings 4-8-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 6, 7, 8, 9, 10

FORCES

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

NOTES

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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:

January 4, 2024

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

MiTek®

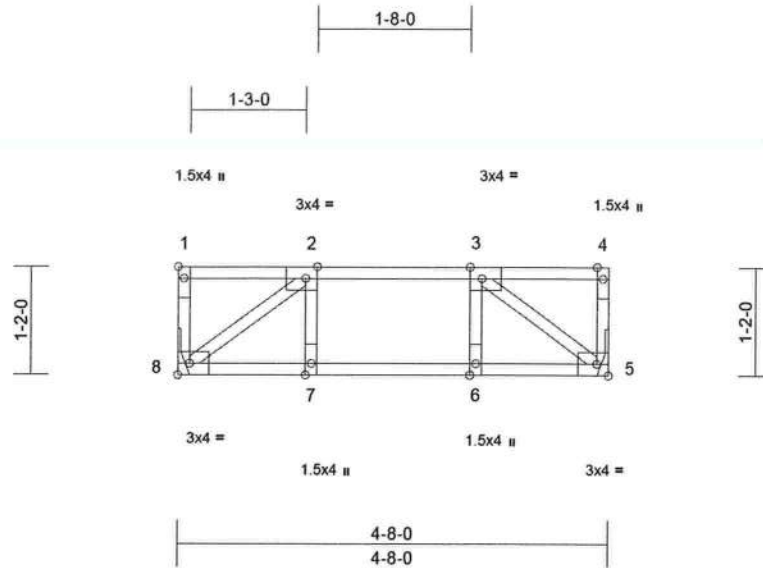
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1223-007	F02	Floor	36	1	T32516131

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:19
ID: X0cY4ulAoXPzrPy0GZ9khfyB2jc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDol7J4zJC?f

Page: 1



Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S								
											Weight: 24 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, 8= Mechanical
Max Grav 5=250 (LC 1), 8=250 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-57/5, 4-5=-57/5, 1-2=0/0, 2-3=-254/0, 3-4=0/0

BOT CHORD 7-8=0/254, 6-7=0/254, 5-6=0/254

WEBS 3-5=-319/0, 2-8=-319/0, 2-7=-2/36, 3-6=-2/36

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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:

January 4, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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®

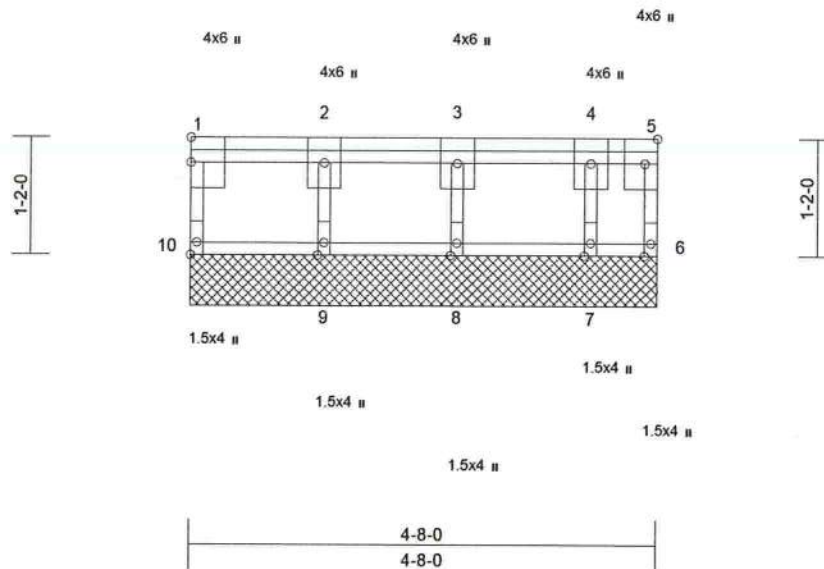
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1223-007	Truss F03	Truss Type Floor Supported Gable	Qty 2	Ply 1	Job Reference (optional) T32516132
-----------------	--------------	-------------------------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:19
ID:DtB1aFApLuYRo70kPgeQlxyB2XR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f

Page: 1



Scale = 1:22.1

Plate Offsets (X, Y): [5:0-3-0,Edge], [10:Edge,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-R							
										Weight: 27 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or
4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 6=4-8-0, 7=4-8-0, 8=4-8-0, 9=4-8-0,
10=4-8-0
Max Grav 6=20 (LC 1), 7=115 (LC 1), 8=151
(LC 1), 9=155 (LC 1), 10=58 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-10=-53/0, 5-6=-17/0, 1-2=-3/0, 2-3=-3/0,
3-4=-3/0, 4-5=-3/0
BOT CHORD 9-10=0/3, 8-9=0/3, 7-8=0/3, 6-7=0/3
WEBS 2-9=-142/0, 3-8=-137/0, 4-7=-106/0

NOTES

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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:

January 4, 2024

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/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 Component Association (www.sbcsccomponents.com)

MiTek®

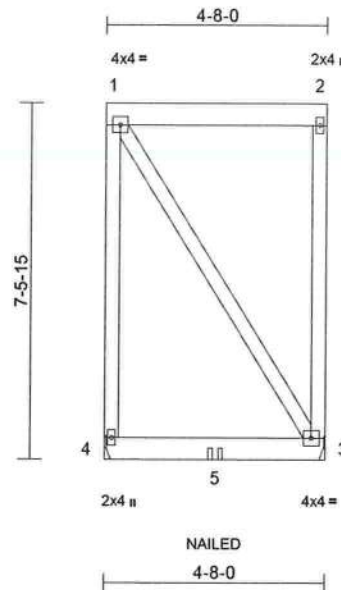
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1223-007	Truss GO1	Truss Type Flat Girder	Qty 3	Ply 2	Job Reference (optional) T32516133
-----------------	--------------	---------------------------	----------	----------	---------------------------------------

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Wed Jan 03 11:10:20
ID: ydH5lcOXVDZ4CnRXxNWURQyB2b1-RfC7PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:46.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02	3-4	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
Weight: 106 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-197 (LC 4)
Max Uplift 3=-189 (LC 5), 4=-189 (LC 4)
Max Grav 3=403 (LC 13), 4=403 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-229/189, 1-2=-77/69, 2-3=-131/31
BOT CHORD 3-4=-175/153
WEBS 1-3=-187/187

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.
- 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 4 and 189 lb uplift at joint 3.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-254 (B)



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

January 4, 2024

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

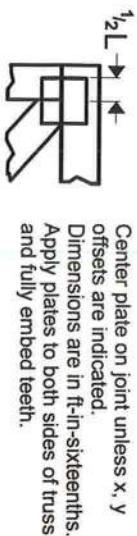
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.tpinstitute.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

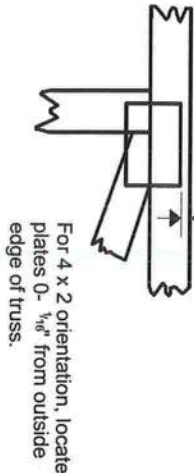
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0-1/16"



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

PLATE SIZE

4 X 4

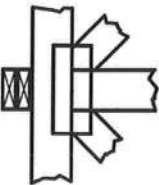
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



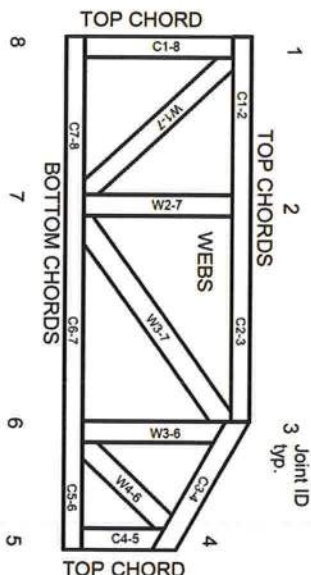
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

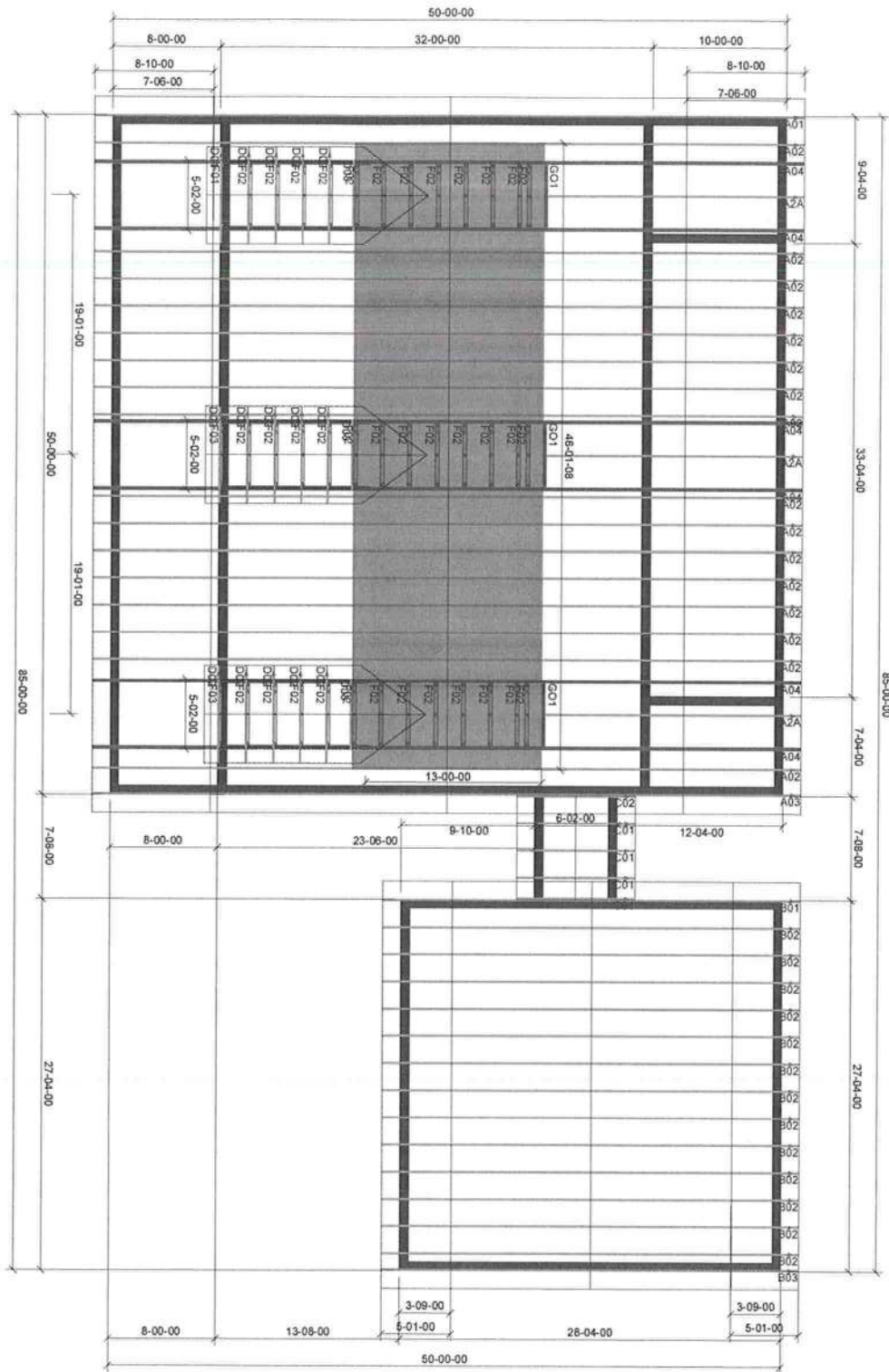
MiTek®

MiTek Engineering Reference Sheet: MII-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 for l 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 waste at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



ROOF PITCH: 3/12
 PORCHES.
 6/12 MAIN HOUSE
 CLG PITCH: FLAT
 O.H.: 16" PLUMB CUT
 WIND: 130 MPH
 EXP: "B"
 LOADING: 40 PSF
 WALLS: 8" CMU
 ATTIC SIZE: 12' WIDE
 X 7' HEIGHT.
 DATE: 12-6-2023

Jacob 1223-007

FT White

Client: IND-RES
 Date: 12/8/2023
 Quote Date: 12/06/23
 Seal Date: / /
 Designer: Lynn Bell
 Job Number: 1223-007

Mayo Truss

 Company Inc.
 Ph. (386) 294-3988
 Fax (386) 294-3981
 mayotruss@windstream.net