MiTek®

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

RE: 1123-031 -

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

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

Name: License #:
Address:
City: State:

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

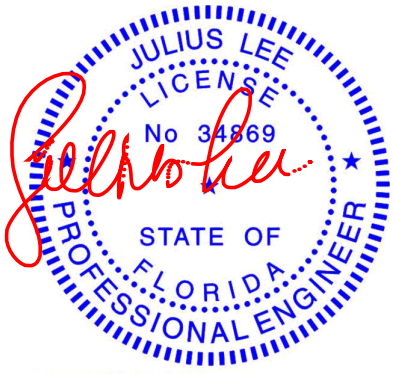
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 32 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T32209721	A01GE	11/28/23	23	T32209743	M03	11/28/23
2	T32209722	A02	11/28/23	24	T32209744	M04	11/28/23
3	T32209723	A03	11/28/23	25	T32209745	MG01	11/28/23
4	T32209724	A04	11/28/23	26	T32209746	PB01	11/28/23
5	T32209725	A05	11/28/23	27	T32209747	PB02	11/28/23
6	T32209726	A06GE	11/28/23	28	T32209748	PB03	11/28/23
7	T32209727	B01GE	11/28/23	29	T32209749	PB04	11/28/23
8	T32209728	B02	11/28/23	30	T32209750	PB05	11/28/23
9	T32209729	B03	11/28/23	31	T32209751	PB06	11/28/23
10	T32209730	C01GE	11/28/23	32	T32209752	PB07	11/28/23
11	T32209731	C02	11/28/23				
12	T32209732	D01GE	11/28/23				
13	T32209733	D02	11/28/23				
14	T32209734	D03	11/28/23				
15	T32209735	D04GIR	11/28/23				
16	T32209736	D05	11/28/23				
17	T32209737	D06	11/28/23				
18	T32209738	D07	11/28/23				
19	T32209739	D08	11/28/23				
20	T32209740	D09GE	11/28/23				
21	T32209741	M01	11/28/23				
22	T32209742	M02	11/28/23				

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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.



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

November 29,2023

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.

Job	Truss	Truss Type	Qty	Ply	
1123-031	A01GE	Piggyback Base Structural Gable	1	1	T32209721
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:12 Page: 1
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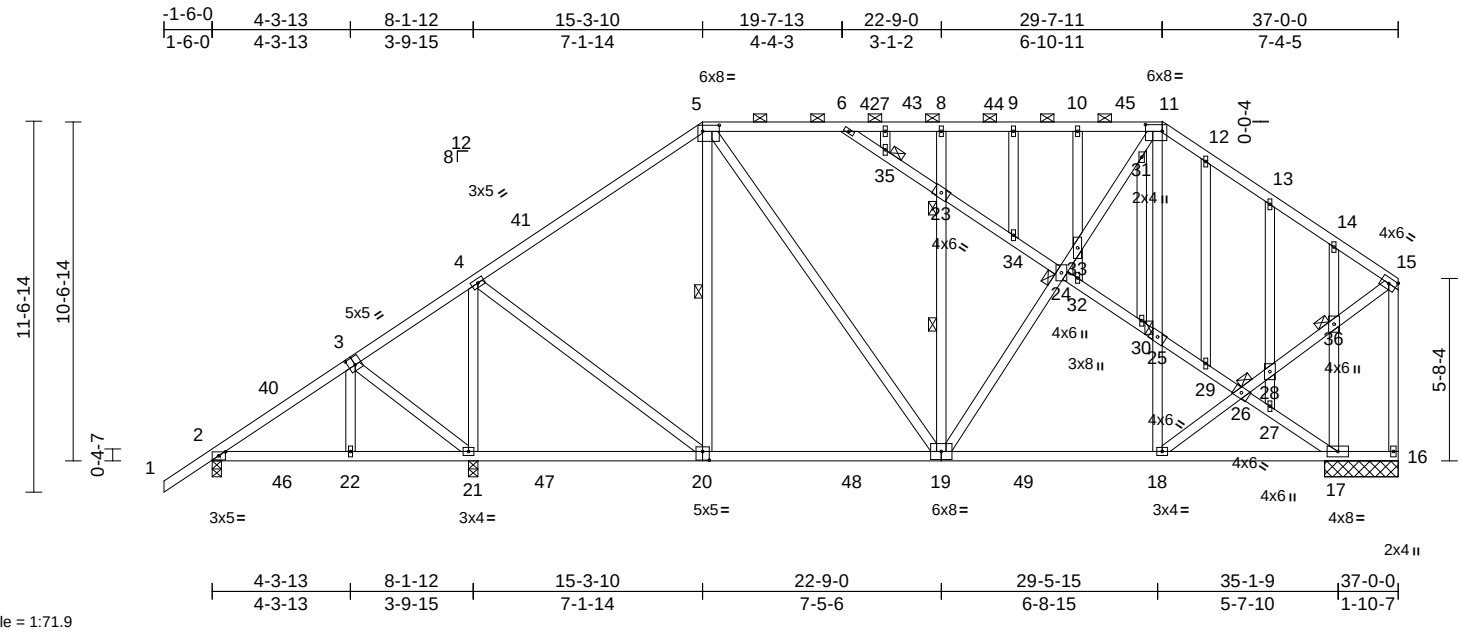


Scale = 1:71.9

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [3:0-2-8,0-3-0], [5:0-6-4,0-2-4], [11:0-6-4,0-2-8], [20:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.10	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.16	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	17	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 328 lb	FT = 20%

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

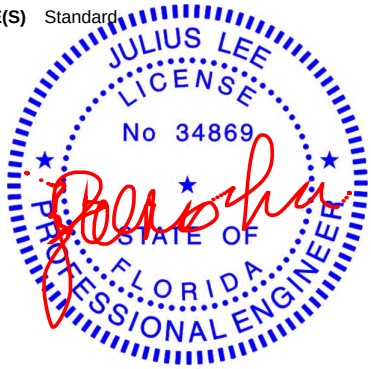
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-4 max.): 5-11.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-20, 19-23
JOINTS 1 Brace at Jt(s): 23, 24, 25, 26, 35, 36

REACTIONS (size) 2=0-3-8, 16=2-3-8, 17=2-3-8, 21=0-3-8
Max Horiz 2=272 (LC 11)
Max Uplift 2=-100 (LC 12), 17=-61 (LC 12), 21=-75 (LC 12)
Max Grav 2=404 (LC 23), 16=635 (LC 17), 17=757 (LC 18), 21=1733 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-340/179, 4-5=-950/105, 5-6=-956/122, 6-7=-682/75, 7-8=-682/75, 8-9=-680/76, 9-10=-680/76, 10-11=-680/76, 11-12=-638/91, 12-13=-664/66, 13-14=-648/26, 14-15=-616/0, 15-16=-644/0
BOT CHORD 2-22=-176/244, 21-22=-173/243, 18-21=-110/867, 17-18=-98/480, 16-17=-84/89
WEBS 5-20=-279/86, 5-19=-18/470, 19-23=-224/53, 8-23=-203/46, 19-24=0/189, 24-33=0/267, 31-33=-17/344, 11-31=-11/288, 18-25=-125/49, 11-25=-55/59, 18-26=0/599, 26-28=0/628, 28-36=0/673, 15-36=0/599, 4-20=0/858, 4-21=-1376/125, 3-21=-256/147, 3-22=-122/141, 6-35=-397/83, 23-35=-395/83, 23-34=-382/80, 24-34=-412/82, 24-32=-459/81, 30-32=-503/87, 25-30=-525/78, 25-29=-485/78, 26-29=-516/94, 26-27=-564/138, 17-27=-579/154, 14-36=-162/80, 13-28=-128/72, 27-28=-28/29, 12-29=-61/30, 30-31=-68/7, 10-33=-183/50, 32-33=-79/22, 9-34=-55/12, 7-35=-8/6, 17-36=-288/83

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-6-7, Interior (1) 20-6-7 to 29-7-11, Exterior(2R) 29-7-11 to 35-0-0, Interior (1) 35-0-0 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2, 75 lb uplift at joint 21 and 61 lb uplift at joint 17.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	A02	Piggyback Base	2	1	T32209722
					Job Reference (optional)

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

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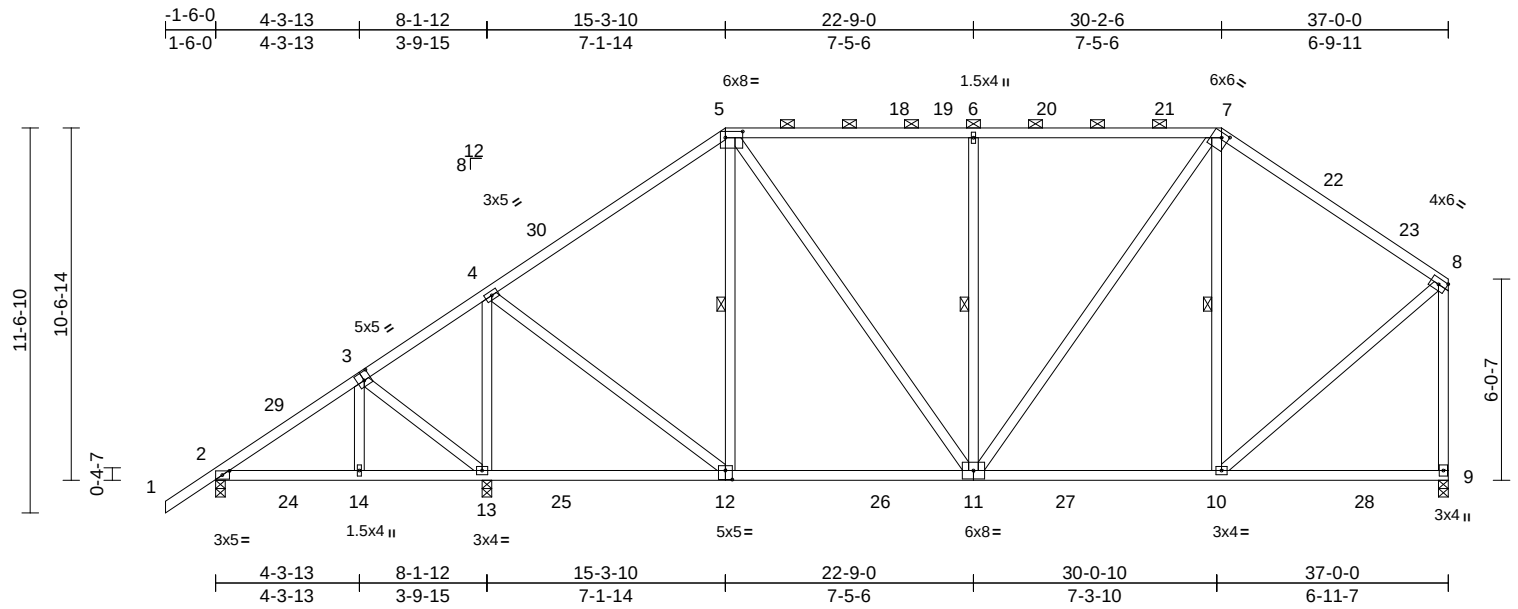


Scale = 1:69.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.16	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 253 lb	FT = 20%

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

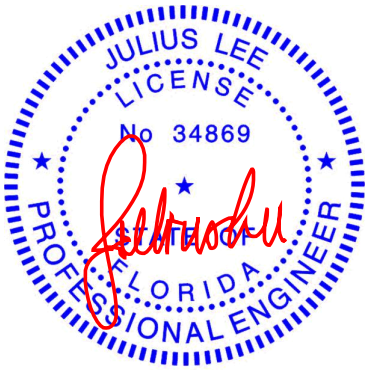
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-9 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-12, 6-11, 7-10

REACTIONS (size) 2=0-3-8, 9=0-3-8, 13=0-3-8
Max Horiz 2=276 (LC 11)
Max Uplift 2=-93 (LC 12), 13=-87 (LC 12)
Max Grav 2=366 (LC 23), 9=1339 (LC 18), 13=1824 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-977/114, 6-7=-977/114, 7-8=-964/106, 8-9=-1212/35, 1-2=0/50, 2-4=-262/203, 4-5=-964/103
BOT CHORD 2-14=-180/193, 13-14=-177/191, 10-13=-146/750, 9-10=-68/87
WEBS 5-12=-335/88, 5-11=-5/473, 6-11=-490/89, 7-11=0/469, 7-10=-338/99, 8-10=0/888, 4-12=0/944, 4-13=-1463/132, 3-13=-261/149, 3-14=-122/141

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-6-7, Interior (1) 20-6-7 to 30-2-6, Exterior(2R) 30-2-6 to 35-5-2, Interior (1) 35-5-2 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 87 lb uplift at joint 13.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	A03	Piggyback Base	5	1	T32209723
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:14 Page: 1
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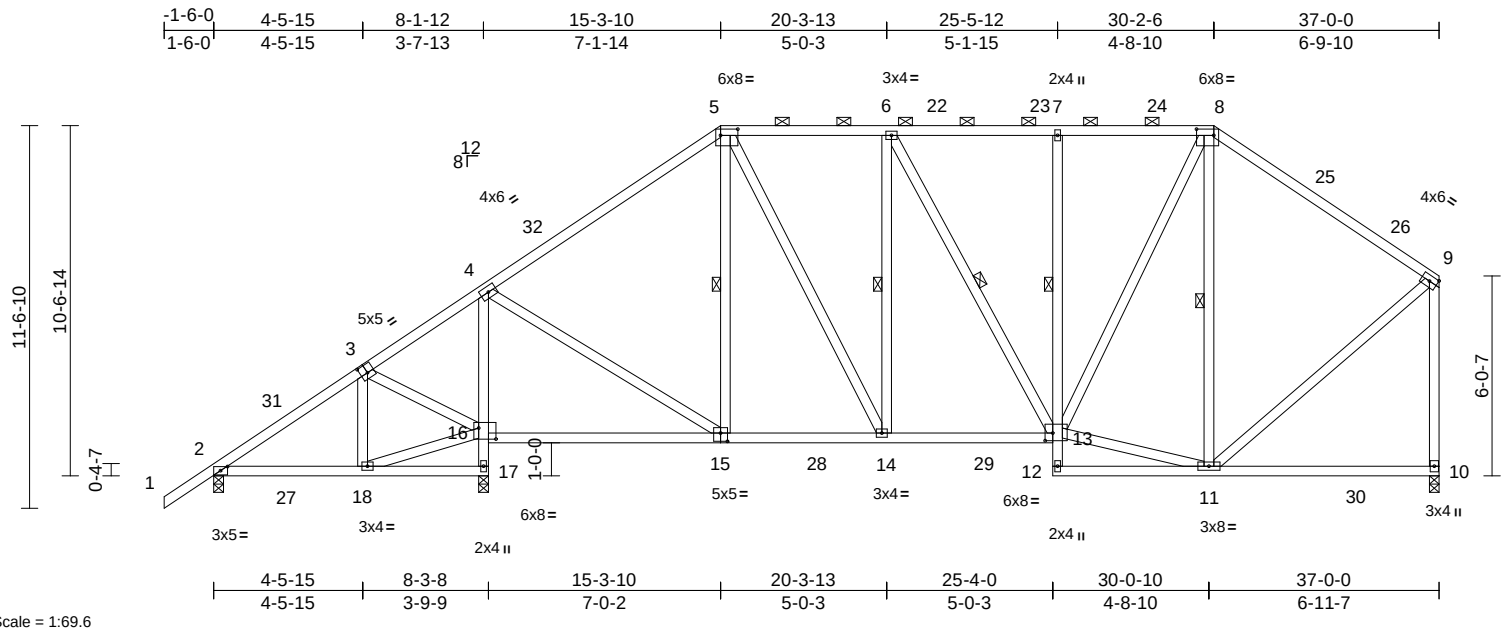


Scale = 1:69.6

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [3:0-2-8,0-3-0], [5:0-6-4,0-2-4], [8:0-6-4,0-2-4], [13:0-2-12,0-2-12], [15:0-2-8,0-3-0], [16:0-6-4,0-4-0]

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	0.70	Vert(LL)	-0.08	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.14	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 284 lb	FT = 20%

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

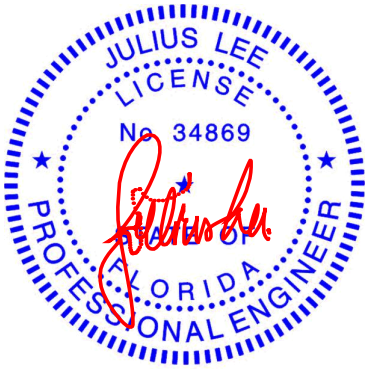
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-3 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-13
WEBS 1 Row at midpt 5-15, 6-14, 6-13, 8-11

REACTIONS (size) 2=0-3-8, 10=0-3-8, 17=0-3-8
Max Horiz 2=276 (LC 11)
Max Uplift 2=-106 (LC 12), 17=-69 (LC 12)
Max Grav 2=377 (LC 23), 10=1309 (LC 18), 17=1770 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1001/107, 6-7=-986/106, 7-8=-982/106, 8-9=-933/113, 9-10=-1172/41, 1-2=0/50, 2-4=-318/210, 4-5=-1030/100
BOT CHORD 2-18=-173/203, 17-18=-62/0, 16-17=-1741/169, 4-16=-1423/119, 14-16=-145/808, 13-14=-57/1026, 12-13=0/63, 7-13=-310/66, 11-12=-25/25, 10-11=-66/88
WEBS 4-15=0/929, 5-15=-295/70, 5-14=-1/531, 6-14=-329/59, 6-13=-77/18, 11-13=-42/695, 8-13=-12/684, 8-11=-475/100, 9-11=0/840, 3-16=-272/160, 3-18=-113/133, 16-18=-127/256

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-3-13, Interior (1) 20-3-13 to 30-2-6, Exterior(2R) 30-2-6 to 35-5-2, Interior (1) 35-5-2 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2 and 69 lb uplift at joint 17.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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Date:

November 29,2023

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1123-031	A04	Piggyback Base	4	1	T32209724
					Job Reference (optional)

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

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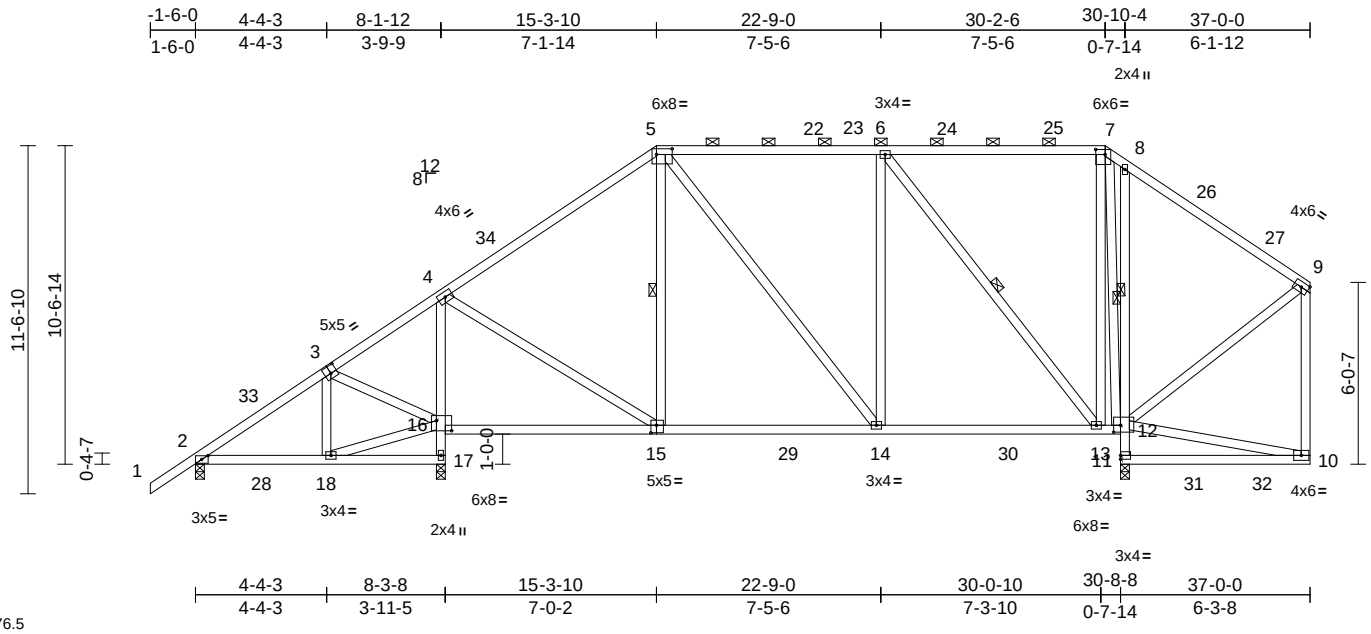

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.10	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.17	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 284 lb	FT = 20%

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

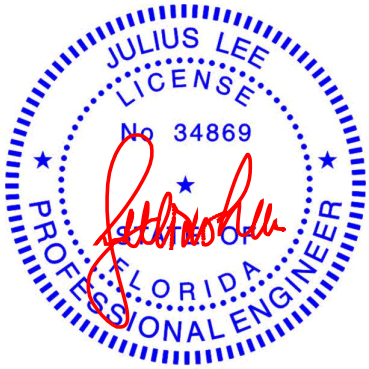
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 8-12
WEBS 1 Row at midpt 5-15, 6-13, 7-12

REACTIONS (size) 2=0-3-8, 11=0-3-8, 17=0-3-8
Max Horiz 2=276 (LC 11)
Max Uplift 2=-114 (LC 12), 11=-3 (LC 12), 17=-59 (LC 12)
Max Grav 2=367 (LC 23), 11=1595 (LC 19), 17=1489 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-554/108, 6-7=-54/104, 7-8=-65/148, 8-9=-110/268, 9-10=-102/110, 1-2=0/50, 2-4=-288/270, 4-5=-729/91
BOT CHORD 2-18=-176/176, 17-18=-50/0, 16-17=-1456/137, 4-16=-1164/88, 14-16=-185/561, 13-14=-28/572, 12-13=-179/260, 11-12=-1489/184, 8-12=-344/145, 10-11=-109/18
WEBS 4-15=0/701, 5-15=-158/70, 10-12=-26/182, 9-12=-223/217, 3-18=-109/149, 6-14=0/368, 5-14=-23/93, 6-13=-941/25, 7-13=0/777, 7-12=-998/9, 16-18=-131/215, 3-16=-291/161

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-6-7, Interior (1) 20-6-7 to 30-2-6, Exterior(2R) 30-2-6 to 35-5-2, Interior (1) 35-5-2 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2, 59 lb uplift at joint 17 and 3 lb uplift at joint 11.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



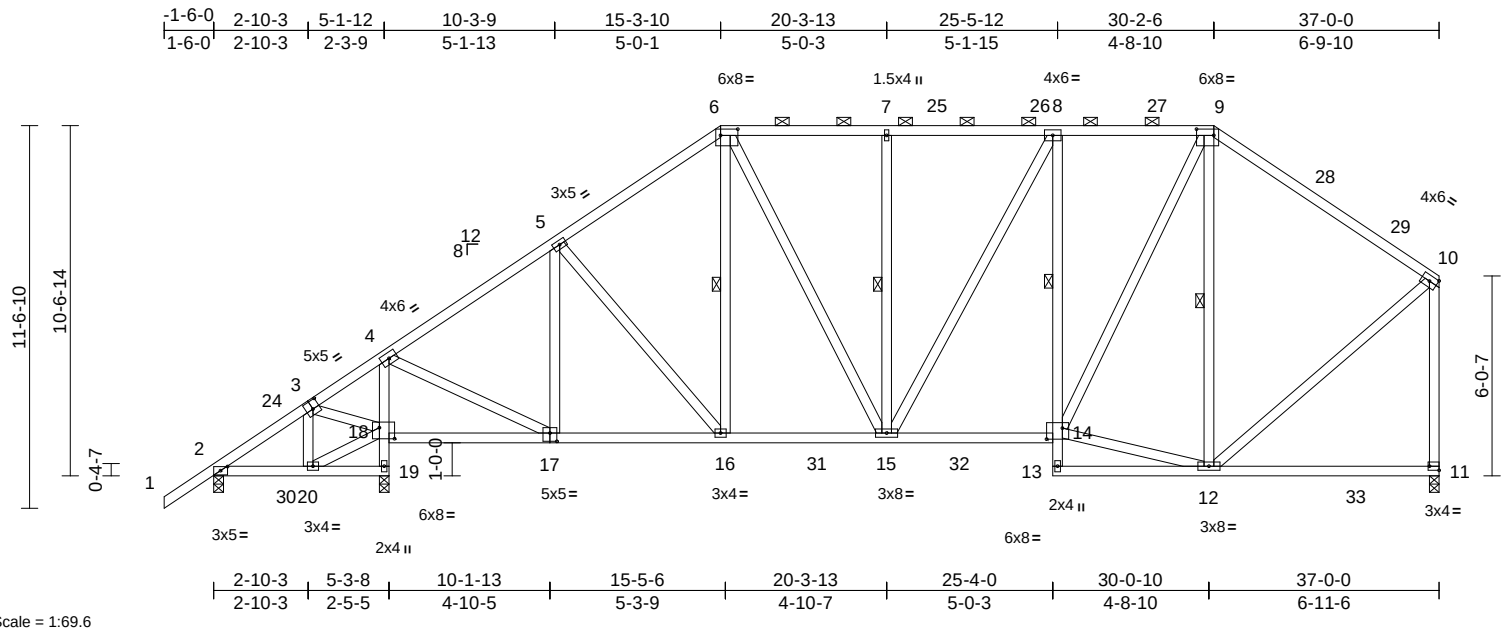
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	A05	Piggyback Base	3	1	T32209725
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:15 Page: 1
ID:1lCxs6EEnNFdKFnQflLLSYyIH_9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:69.6

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [3:0-2-8,0-3-0], [6:0-6-4,0-2-4], [9:0-6-4,0-2-4], [11:Edge,0-1-8], [14:0-5-12,0-4-0], [17:0-2-8,0-3-0], [18:0-5-8,0-4-0]

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	0.81	Vert(LL)	-0.08	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.14	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 290 lb	FT = 20%

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

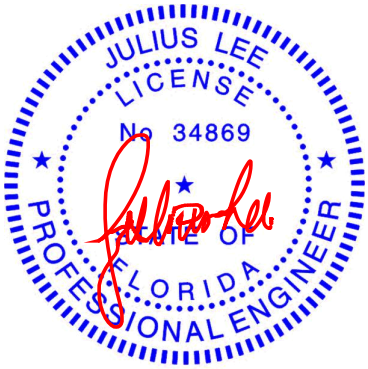
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-11 max.): 6-9.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 8-14
WEBS 1 Row at midpt 6-16, 7-15, 9-12

REACTIONS (size) 2=0-3-8, 11=0-3-8, 19=0-3-8
Max Horiz 2=276 (LC 11)
Max Uplift 2=-81 (LC 12), 19=-43 (LC 12)
Max Grav 2=211 (LC 18), 11=1435 (LC 18), 19=1847 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-160/388, 4-5=-1248/54, 5-6=-1336/100, 6-7=-1216/106, 7-8=-1216/106, 8-9=-1156/104, 9-10=-1033/108, 10-11=-1298/41
BOT CHORD 2-20=-131/66, 19-20=-32/0, 18-19=-1825/126, 4-18=-1665/74, 16-18=-282/1077, 15-16=-80/1118, 14-15=-74/1190, 13-14=0/62, 8-14=-443/55, 12-13=-21/22, 11-12=-66/88
WEBS 4-17=-26/1337, 5-17=-410/81, 5-16=-10/166, 6-16=-20/178, 6-15=-6/415, 7-15=-327/69, 8-15=-7/174, 12-14=-50/793, 9-14=-21/902, 9-12=-584/106, 10-12=-3/962, 3-20=-70/110, 18-20=-129/73, 3-18=-212/105

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-3-13, Interior (1) 20-3-13 to 30-2-6, Exterior(2R) 30-2-6 to 35-5-2, Interior (1) 35-5-2 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 43 lb uplift at joint 19.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

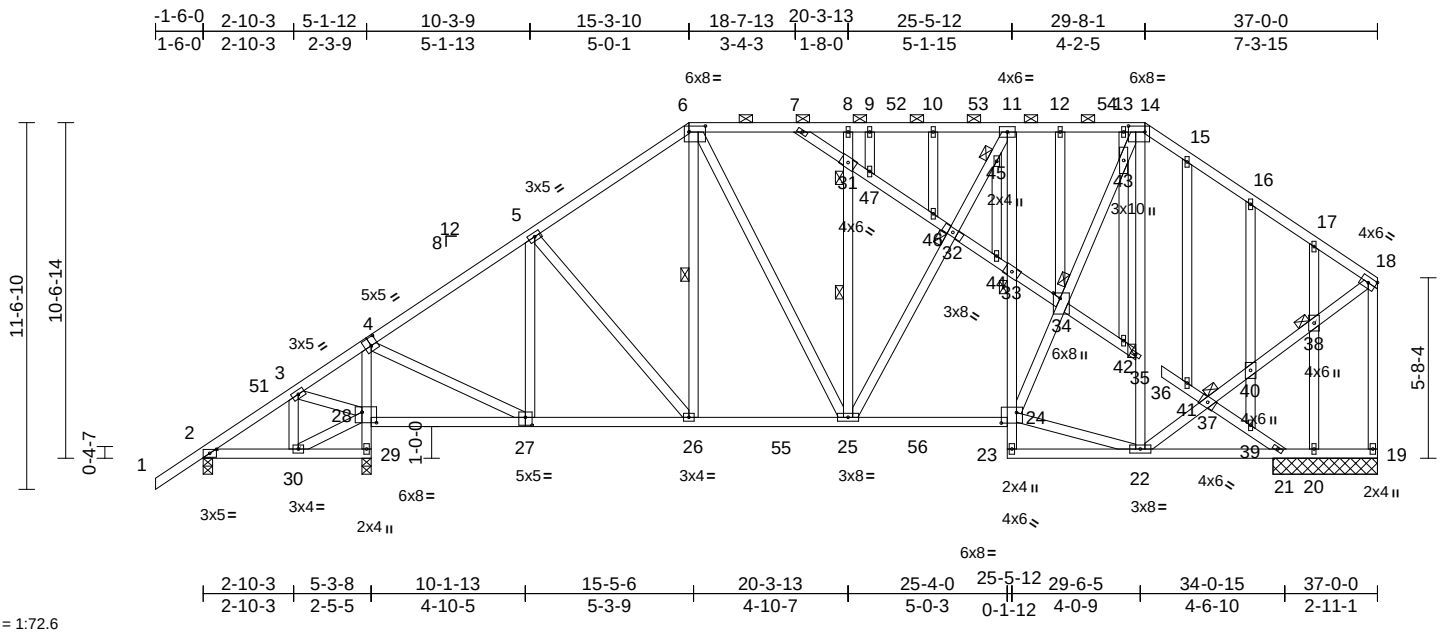
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	A06GE	Piggyback Base Structural Gable	1	1	T32209726
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:16 Page: 1
ID:7S30dpQy4Haz6m6vWDvyePyIGj7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:72.6

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [4:0-2-8,0-3-0], [6:0-6-4,0-2-4], [14:0-6-4,0-2-4], [24:0-5-12,0-4-0], [27:0-2-8,0-3-0], [28:0-5-8,0-4-0], [34:0-2-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.07	24-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.12	24-25	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.04	21	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 373 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-8 max.): 6-14.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-26, 25-31
JOINTS 1 Brace at Jt(s): 31, 32, 33, 34, 35, 37, 38, 45

REACTIONS (size) 2=0-3-8, 19=3-3-8, 20=3-3-8, 21=3-3-8, 29=0-3-8
Max Horiz 2=272 (LC 11)
Max Uplift 2=-41 (LC 12), 20=-77 (LC 12)
Max Grav 2=238 (LC 18), 19=1005 (LC 17), 20=199 (LC 18), 21=277 (LC 18), 29=1855 (LC 17)

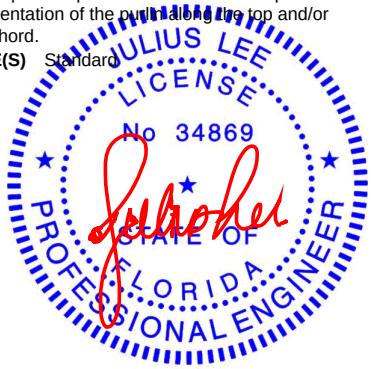
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-189/164, 3-5=-1204/408, 5-6=-1290/99, 6-7=-1161/104, 7-8=-1132/101, 8-9=-1147/104, 9-10=-1147/104, 10-11=-1147/104, 11-12=-1066/99, 12-13=-1065/99, 13-14=-1065/99, 14-15=-857/119, 15-16=-913/108, 16-17=-880/56, 17-18=-853/29, 18-19=-968/0

BOT CHORD 2-30=-100/91, 29-30=-32/0, 28-29=-1821/58, 4-28=-1643/60, 26-28=-255/1045, 25-26=-72/1081, 24-25=-59/1129, 23-24=0/74, 24-33=-413/58, 11-33=-349/51, 22-23=-8/51, 21-22=-73/103, 20-21=-84/89, 19-20=-84/89

WEBS 4-27=-11/1278, 5-27=-399/75, 5-26=-11/155, 6-26=-12/184, 6-25=-6/380, 25-31=-302/59, 8-31=-305/61, 25-32=-2/183, 32-45=-15/248, 11-45=-9/199, 22-24=-47/719, 24-34=-10/898, 34-43=-35/985, 14-43=-26/745, 22-35=-573/57, 14-35=-410/46, 22-37=0/841, 37-40=0/875, 38-40=0/904, 18-38=0/872, 3-28=-237/22, 3-30=0/129, 7-31=-46/26, 31-47=-28/21, 46-47=-20/16, 32-46=-53/17, 32-44=-38/15, 33-44=-65/18, 33-34=-10/13, 34-42=-2/4, 35-42=-105/8, 36-41=0/0, 37-41=0/0, 37-39=-66/29, 21-39=-113/56, 17-38=-155/78, 20-38=-216/86, 16-40=-160/86, 39-40=-85/48, 15-41=0/0, 13-43=-11/85, 42-43=-192/13, 12-34=-61/27, 44-45=-58/7, 10-46=-97/22, 9-47=-9/47, 28-30=-92/85

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-2-6, Interior (1) 2-2-6 to 15-3-10, Exterior(2R) 15-3-10 to 20-3-13, Interior (1) 20-3-13 to 29-8-1, Exterior(2R) 29-8-1 to 35-0-0, Interior (1) 35-0-0 to 36-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2 and 77 lb uplift at joint 20.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

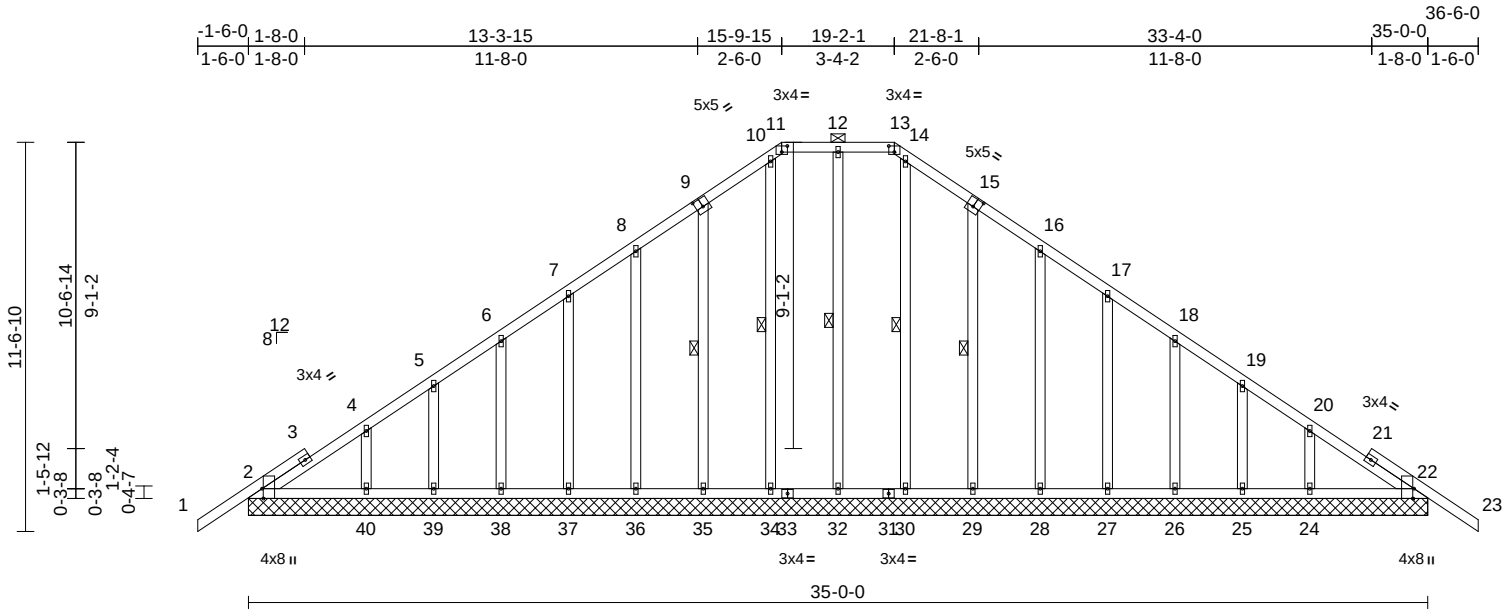
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	B01GE	Piggyback Base Supported Gable	1	1	T32209727
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:17 Page: 1
ID:HsyvFSVDXRYXXKSLiKYghtyIGlc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [9:0-2-8,0-3-0], [11:0-2-0,0-2-3], [13:0-2-0,0-2-3], [15:0-2-8,0-3-0], [22:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	44	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 260 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, except
2-0-0 oc purlins (6-0-0 max.): 11-13.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 12-32, 10-34, 9-35, 14-30, 15-29

REACTIONS (size) 2=35-0-0, 22=35-0-0, 24=35-0-0, 25=35-0-0, 26=35-0-0, 27=35-0-0, 28=35-0-0, 29=35-0-0, 30=35-0-0, 32=35-0-0, 34=35-0-0, 35=35-0-0, 36=35-0-0, 37=35-0-0, 38=35-0-0, 39=35-0-0, 40=35-0-0, 41=35-0-0, 44=35-0-0
Max Horiz 2=-218 (LC 10), 41=-218 (LC 10)
Max Uplift 2=-17 (LC 12), 22=-17 (LC 12), 24=-1 (LC 12), 25=-29 (LC 12), 26=-19 (LC 12), 27=-22 (LC 12), 28=-19 (LC 12), 29=-27 (LC 12), 35=-27 (LC 12), 36=-19 (LC 12), 37=-22 (LC 12), 38=-19 (LC 12), 39=-29 (LC 12), 40=-1 (LC 12), 41=-17 (LC 12), 44=-17 (LC 12)
Max Grav 2=236 (LC 23), 22=236 (LC 24), 24=242 (LC 18), 25=137 (LC 18), 26=170 (LC 18), 27=163 (LC 18), 28=160 (LC 18), 29=167 (LC 18), 30=160 (LC 1), 32=160 (LC 23), 34=169 (LC 17), 35=165 (LC 17), 36=160 (LC 17), 37=164 (LC 17), 38=170 (LC 17), 39=139 (LC 17), 40=241 (LC 23), 41=236 (LC 23), 44=236 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-142/173, 4-5=-144/144, 5-6=-123/130, 6-7=-113/111, 7-8=-100/120, 8-10=-125/216, 10-11=-116/186, 11-12=-109/200, 12-13=-109/200, 13-14=-116/186, 14-16=-125/216, 16-17=-69/120, 17-18=-44/72, 18-19=-52/46, 19-20=-70/55, 20-22=-98/92, 22-23=0/50
BOT CHORD 2-40=-79/151, 39-40=-79/151, 38-39=-79/151, 37-38=-79/151, 36-37=-79/151, 35-36=-79/151, 34-35=-80/151, 32-34=-80/151, 30-32=-80/151, 29-30=-80/151, 28-29=-79/151, 27-28=-79/151, 26-27=-79/151, 25-26=-79/151, 24-25=-79/151, 22-24=-79/151
WEBS 12-32=-120/0, 10-34=-129/0, 9-35=-125/70, 8-36=-119/60, 7-37=-124/63, 6-38=-127/63, 5-39=-111/65, 4-40=-171/66, 14-30=-120/0, 15-29=-127/70, 16-28=-119/60, 17-27=-124/63, 18-26=-127/63, 19-25=-109/65, 20-24=-172/65

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=35ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 2-0-0, Exterior(2N) 2-0-0 to 15-9-15, Corner(3E) 15-9-15 to 19-2-1, Corner(3R) 19-2-1 to 22-8-1, Exterior(2N) 22-8-1 to 36-6-0 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be SP No.2 .

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

November 29,2023

Continued on page 2

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Chesterfield, MO 63017
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12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 17 lb uplift at joint 22, 27 lb uplift at joint 35, 19 lb uplift at joint 36, 22 lb uplift at joint 37, 19 lb uplift at joint 38, 29 lb uplift at joint 39, 1 lb uplift at joint 40, 27 lb uplift at joint 29, 19 lb uplift at joint 28, 22 lb uplift at joint 27, 19 lb uplift at joint 26, 29 lb uplift at joint 25, 1 lb uplift at joint 24, 17 lb uplift at joint 2 and 17 lb uplift at joint 22.

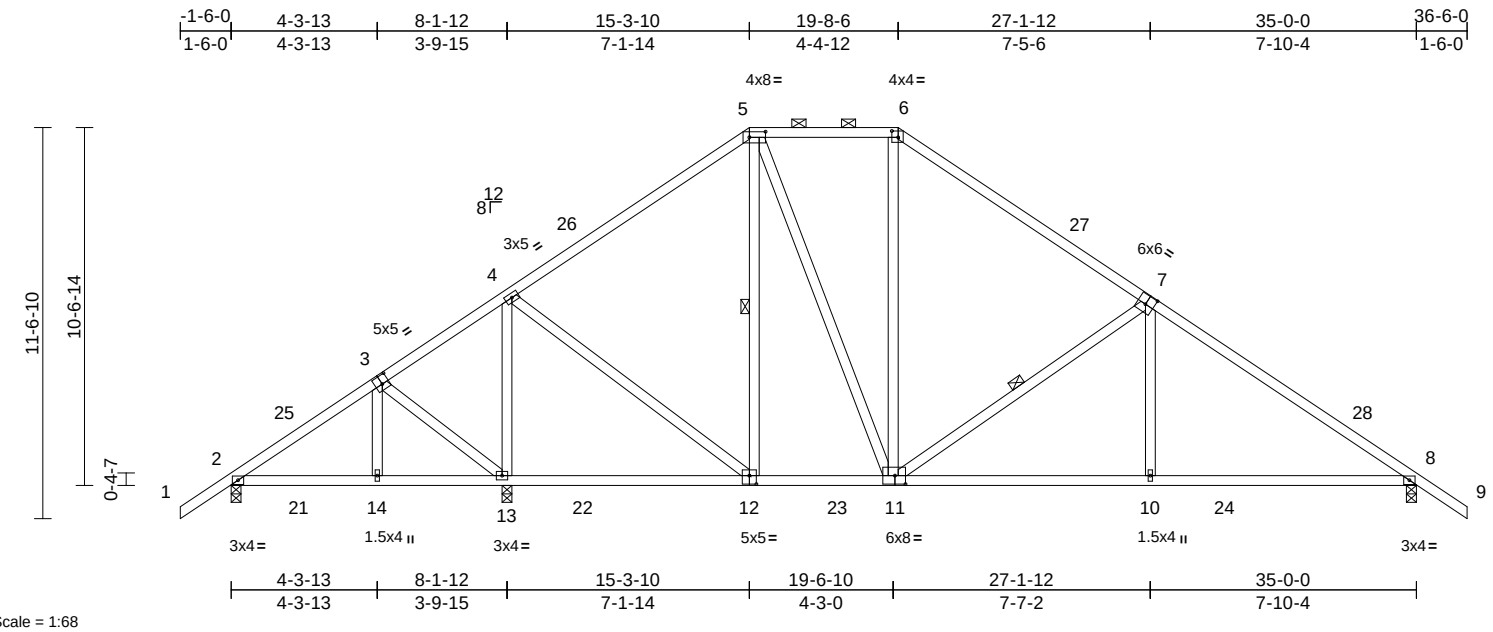
13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1123-031	B02	Piggyback Base	2	1	T32209728
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:17 ID:aelGw02F?zh7tYPI4t23ghyIGz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68

Plate Offsets (X, Y): [3:0-2-8,0-3-0], [5:0-5-12,0-2-0], [6:0-2-4,0-2-4], [7:0-3-0,0-3-4], [11:0-3-12,0-3-0], [12:0-2-8,0-3-0]

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	0.56	Vert(LL)	-0.12	10-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.24	10-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 217 lb	FT = 20%

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

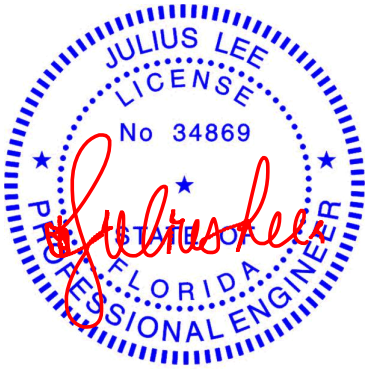
BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-12, 7-11

REACTIONS (size) 2=0-3-8, 8=0-3-8, 13=0-3-8
Max Horiz 2=-218 (LC 10)
Max Uplift 2=-112 (LC 12), 8=-38 (LC 12), 13=-63 (LC 12)
Max Grav 2=332 (LC 23), 8=1290 (LC 18), 13=1785 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-762/121, 1-2=0/50, 2-4=-188/338, 4-5=-811/105, 6-8=-1675/106, 8-9=0/50
BOT CHORD 2-14=-156/104, 13-14=-156/102, 10-13=-237/1314, 8-10=0/1318
WEBS 5-12=-366/33, 5-11=-31/490, 6-11=0/239, 7-11=-791/83, 7-10=0/380, 4-12=0/907, 4-13=-1409/61, 3-13=-251/146, 3-14=-124/133

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=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-0-0, Interior (1) 2-0-0 to 15-3-10, Exterior(2E) 15-3-10 to 19-8-6, Exterior(2R) 19-8-6 to 24-7-12, Interior (1) 24-7-12 to 36-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2, 63 lb uplift at joint 13 and 38 lb uplift at joint 8.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
1123-031	B03	Piggyback Base	2	1	T32209729
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:17
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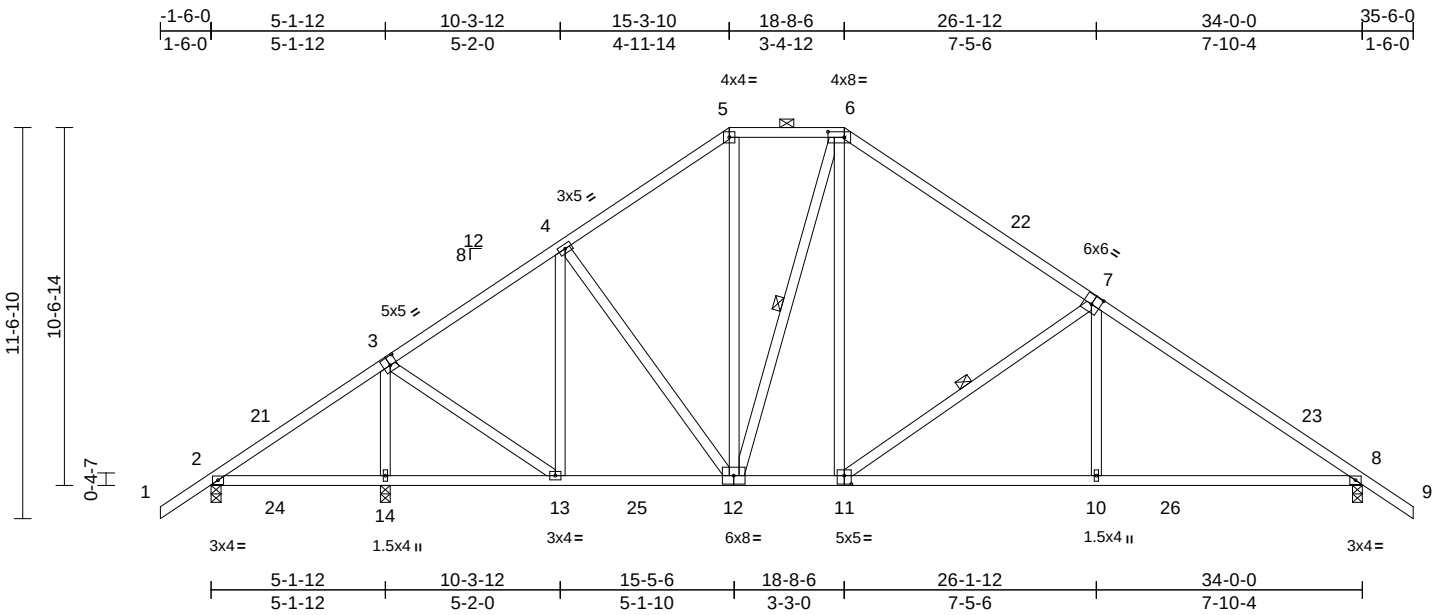
Page: 1



Scale = 1:68

Plate Offsets (X, Y): [3:0-2-8,0-3-0], [6:0-5-12,0-2-0], [7:0-3-0,0-3-4], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.13	10-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.24	10-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 218 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12, 7-11

REACTIONS (size) 2=0-3-8, 8=0-3-8, 14=0-3-8
Max Horiz 2=-217 (LC 10)
Max Uplift 2=-101 (LC 12), 8=-40 (LC 12), 14=-21 (LC 12)
Max Grav 2=192 (LC 23), 8=1371 (LC 18), 14=1766 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-929/439, 4-5=-1017/123, 5-6=-777/125, 6-8=-1820/109, 8-9=0/50
BOT CHORD 2-14=-317/58, 13-14=-290/48, 10-13=0/1434, 8-10=0/1438
WEBS 5-12=-29/361, 6-12=-360/29, 6-11=0/636, 7-11=-787/84, 7-10=0/379, 3-14=-1589/33, 4-12=0/195, 4-13=-450/36, 3-13=0/1103

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=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-10-13, Interior (1) 1-10-13 to 15-3-10, Exterior(2E) 15-3-10 to 18-8-6, Exterior(2R) 18-8-6 to 23-6-1, Interior (1) 23-6-1 to 35-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 2, 21 lb uplift at joint 14 and 40 lb uplift at joint 8.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	C01GE	Piggyback Base Supported Gable	1	1	T32209730 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:18 Page: 1
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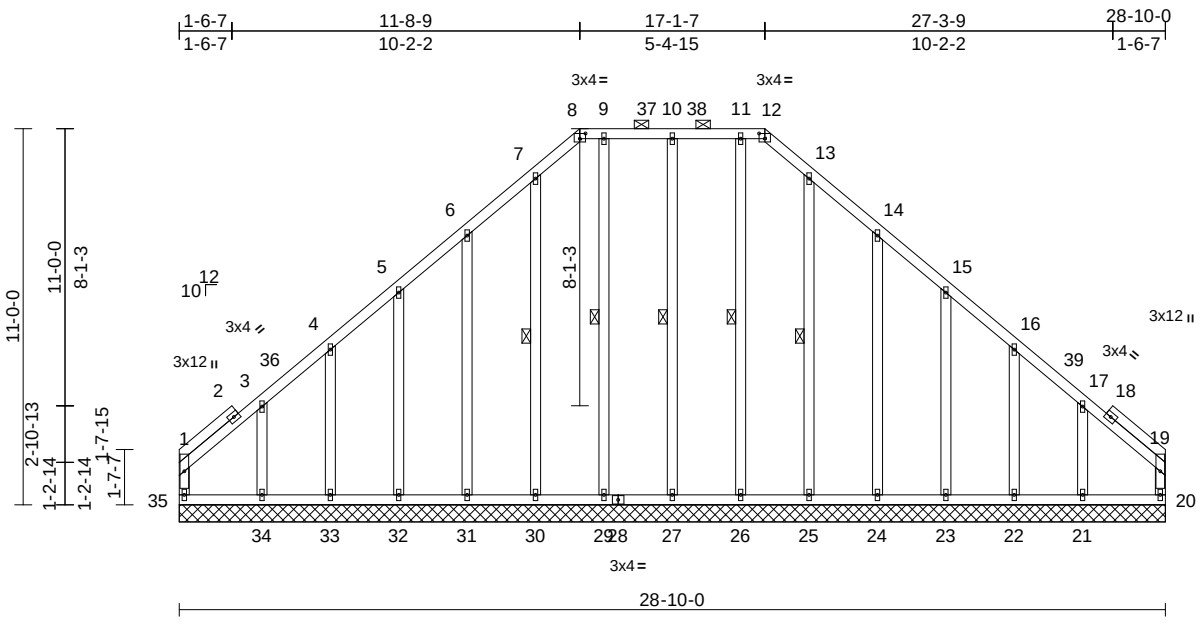


Scale = 1:67.4

Plate Offsets (X, Y): [8:0-2-0,0-1-13], [12:0-2-0,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	-0.01	20	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 242 lb	FT = 20%

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

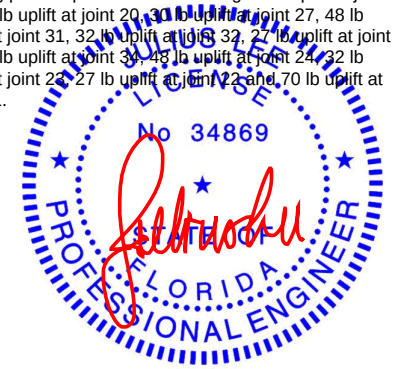
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-27, 9-29, 7-30, 11-26, 13-25

REACTIONS (size) 20=28-10-0, 21=28-10-0, 22=28-10-0, 23=28-10-0, 24=28-10-0, 25=28-10-0, 26=28-10-0, 27=28-10-0, 29=28-10-0, 30=28-10-0, 31=28-10-0, 32=28-10-0, 33=28-10-0, 34=28-10-0, 35=28-10-0
Max Horiz 35=-227 (LC 10)
Max Uplift 20=-59 (LC 11), 21=-70 (LC 12), 22=-27 (LC 12), 23=-32 (LC 12), 24=-48 (LC 12), 27=-30 (LC 12), 31=-48 (LC 12), 32=-32 (LC 12), 33=-27 (LC 12), 34=-72 (LC 9), 35=-89 (LC 10)
Max Grav 20=167 (LC 17), 21=240 (LC 18), 22=159 (LC 1), 23=173 (LC 18), 24=173 (LC 18), 25=158 (LC 18), 26=152 (LC 24), 27=164 (LC 23), 29=152 (LC 23), 30=163 (LC 17), 31=171 (LC 17), 32=174 (LC 17), 33=159 (LC 1), 34=251 (LC 17), 35=191 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-35=-146/78, 1-3=-173/157, 3-4=-134/100, 4-5=-123/110, 5-6=-118/173, 6-7=-163/248, 7-8=-168/260, 8-9=-144/237, 9-10=-144/237, 10-11=-144/237, 11-12=-144/237, 12-13=-168/260, 13-14=-163/248, 14-15=-118/173, 15-16=-101/109, 16-17=-112/71, 17-19=-141/124, 19-20=-128/53
BOT CHORD 34-35=-104/101, 33-34=-104/101, 32-33=-104/101, 31-32=-104/101, 30-31=-104/101, 29-30=-104/101, 27-29=-104/101, 26-27=-104/101, 25-26=-104/101, 24-25=-104/101, 23-24=-104/101, 22-23=-104/101, 21-22=-104/101, 20-21=-104/101
WEBS 10-27=-124/73, 9-29=-112/23, 7-30=-123/7, 6-31=-132/96, 5-32=-131/75, 4-33=-126/76, 3-34=-175/113, 11-26=-112/23, 13-25=-117/3, 14-24=-134/96, 15-23=-131/75, 16-22=-127/76, 17-21=-169/111

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=29ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 11-8-9, Corner(3R) 11-8-9 to 14-5-0, Exterior(2N) 14-5-0 to 17-1-7, Corner(3R) 17-1-7 to 20-5-0, Exterior(2N) 20-5-0 to 28-8-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) All bearings are assumed to be SP No.2 .
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 35, 59 lb uplift at joint 20, 30 lb uplift at joint 27, 48 lb uplift at joint 31, 32 lb uplift at joint 32, 27 lb uplift at joint 33, 72 lb uplift at joint 34, 48 lb uplift at joint 24, 32 lb uplift at joint 23, 27 lb uplift at joint 22 and 70 lb uplift at joint 21.



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

November 29,2023

Continued on page 2

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

14) 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.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1123-031	C02	Piggyback Base	3	1	T32209731
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:18 Page: 1
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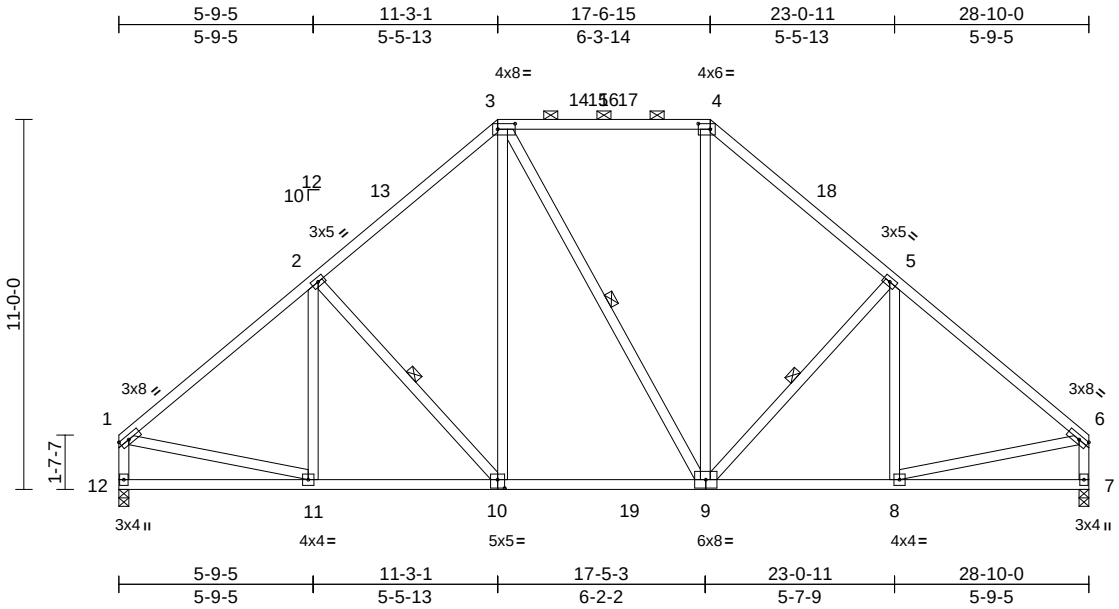


Scale = 1:68.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.13	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 206 lb	FT = 20%

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

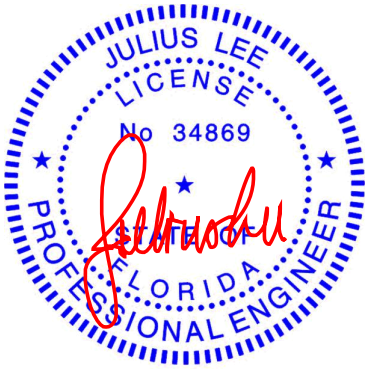
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 3-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-10, 3-9, 5-9

REACTIONS (size) 7=0-3-8, 12=0-3-8
Max Horiz 12=-229 (LC 10)
Max Uplift 7=-133 (LC 12), 12=-133 (LC 12)
Max Grav 7=1378 (LC 18), 12=1383 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1479/223, 2-3=-1309/313, 3-4=-961/300, 4-5=-1296/311, 5-6=-1474/223, 1-12=-1284/195, 6-7=-1280/195
BOT CHORD 11-12=-168/302, 8-11=-111/1176, 7-8=-47/134
WEBS 2-11=-85/84, 2-10=-332/168, 3-10=-55/500, 3-9=-104/109, 4-9=-53/453, 5-9=-335/168, 5-8=-84/84, 1-11=-50/951, 6-8=-51/950

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=29ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-3-1, Exterior (2R) 11-3-1 to 14-3-1, Interior (1) 14-3-1 to 17-6-15, Exterior(2R) 17-6-15 to 20-6-15, Interior (1) 20-6-15 to 28-8-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 12 and 133 lb uplift at joint 7.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
1123-031	D01GE	Attic Supported Gable	1	1	T32209732 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:19

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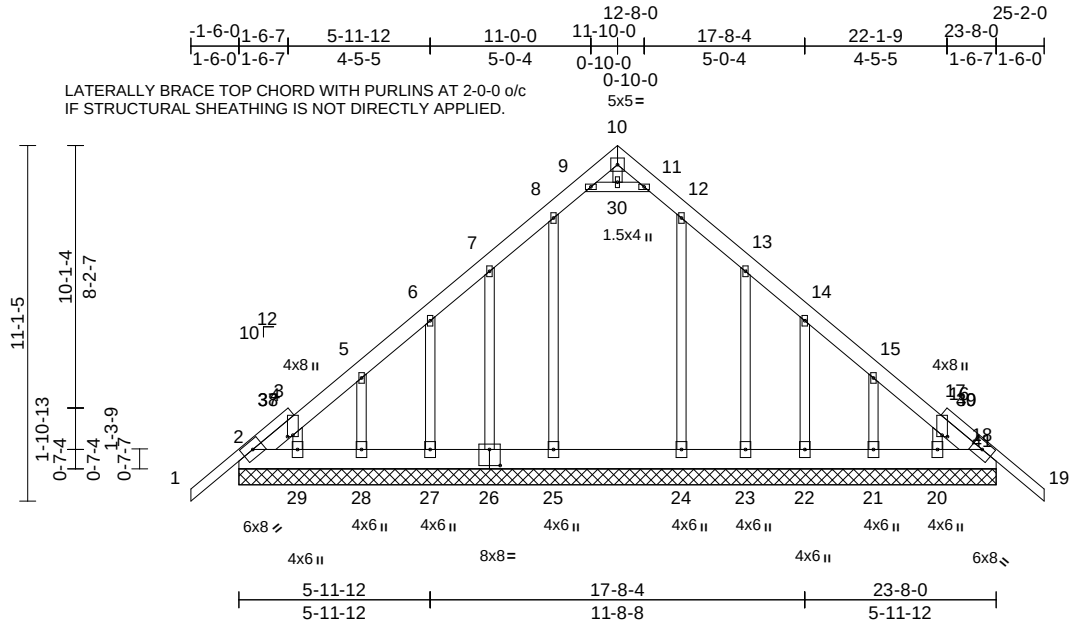


Scale = 1:72

Plate Offsets (X, Y): [3:0-0-9,0-2-0], [17:0-0-9,0-2-0], [26:0-4-0,0-6-0]

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 219 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-10,10-18:2x6 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 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=23-8-0, 18=23-8-0, 20=23-8-0, 21=23-8-0, 22=23-8-0, 23=23-8-0, 24=23-8-0, 25=23-8-0, 26=23-8-0, 27=23-8-0, 28=23-8-0, 29=23-8-0

Max Horiz 2=-212 (LC 10)

Max Uplift 2=-8 (LC 8), 18=-10 (LC 9), 21=-36 (LC 12), 22=-32 (LC 12), 23=-48 (LC 12), 26=-48 (LC 12), 27=-32 (LC 12), 28=-35 (LC 12)

Max Grav 2=238 (LC 1), 18=229 (LC 1), 20=175 (LC 19), 21=218 (LC 19), 22=207 (LC 19), 23=154 (LC 19), 24=296 (LC 19), 25=313 (LC 18), 26=152 (LC 18), 27=207 (LC 18), 28=216 (LC 18), 29=176 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-3=-141/100, 3-5=-144/178, 5-6=-164/81, 6-7=-143/54, 7-8=-131/102, 8-9=-120/102, 9-10=-89/1, 10-11=-89/1, 11-12=-120/102, 12-13=-109/102, 13-14=-121/34, 14-15=-141/51, 15-17=-132/152, 17-18=-142/75, 18-19=0/65

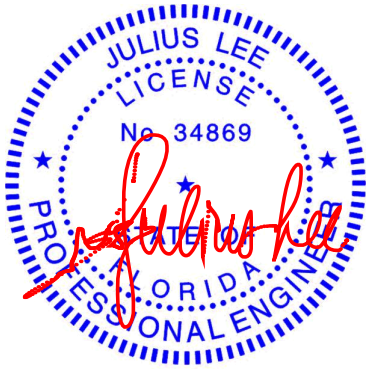
BOT CHORD 2-29=-82/211, 28-29=-79/211, 27-28=-79/211, 25-27=-79/211, 24-25=-79/211, 23-24=-79/211, 22-23=-79/211, 21-22=-79/211, 20-21=-79/211, 18-20=-79/211

WEBS 14-22=-127/82, 6-27=-127/82, 9-30=-79/151, 11-30=-79/151, 10-30=-13/6, 8-25=-150/3, 7-26=-121/86, 5-28=-143/79, 3-29=-124/28, 12-24=-137/0, 13-23=-123/86, 15-21=-144/80, 17-20=-120/30

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=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-10-0, Corner(3R) 11-10-0 to 14-10-0, Exterior(2N) 14-10-0 to 25-2-0 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
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, with BCDL = 10.0psf.
10) All bearings are assumed to be SP 2400F 2.0E .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 10 lb uplift at joint 18, 32 lb uplift at joint 22, 32 lb uplift at joint 27, 48 lb uplift at joint 26, 35 lb uplift at joint 28, 48 lb uplift at joint 23 and 36 lb uplift at joint 21.
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.
13) 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:

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	D02	Attic	1	1	T32209733
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:19

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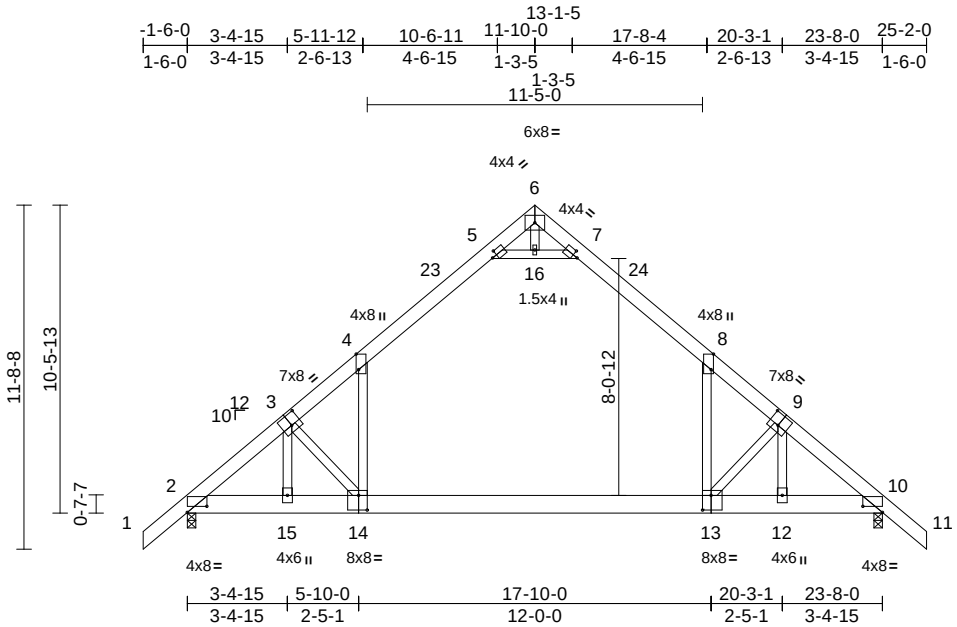


Scale = 1:78.4

Plate Offsets (X, Y): [2:0-8-0,0-2-8], [3:0-4-0,0-4-8], [4:0-6-5,Edge], [5:0-2-1,0-2-0], [7:0-2-1,0-2-0], [8:0-6-5,Edge], [9:0-4-0,0-4-8], [10:0-8-0,0-2-8], [13:0-3-8,0-6-0], [14:0-3-8,0-6-0]

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	0.86	Vert(LL)	-0.44	13-14	>642	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.72	13-14	>393	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.21	13-14	>673	360	Weight: 192 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP SS *Except* 1-3,9-11:2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

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

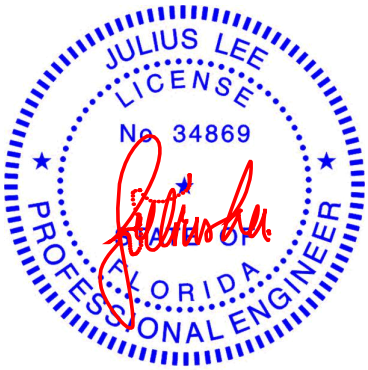
REACTIONS (size) 2=0-3-8, 10=0-3-8
Max Horiz 2=-221 (LC 10)
Max Grav 2=1477 (LC 18), 10=1477 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-4=-2092/0, 4-5=-1179/22, 5-6=0/880, 6-7=0/880, 7-8=-1179/22, 8-10=-2092/0, 10-11=0/58
BOT CHORD 2-15=0/1645, 12-15=0/1644, 10-12=0/1502
WEBS 8-13=0/1326, 4-14=0/1326, 5-16=-2376/2, 7-16=-2376/2, 6-16=0/248, 3-14=-584/90, 3-15=-489/51, 9-13=-586/90, 9-12=-489/51

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 25-2-0 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
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) Ceiling dead load (10.0 psf) on member(s). 5-16, 7-16, 4-5, 7-8
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
8) All bearings are assumed to be SP 2400F 2.0E .
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) 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:

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	D03	Attic	3	1	T32209734
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:20 Page: 1
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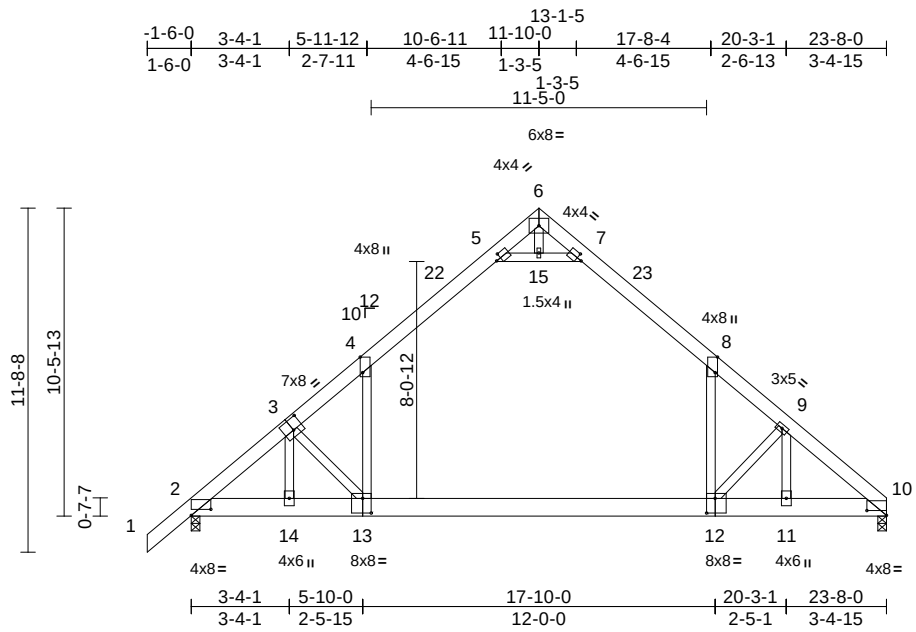


Scale = 1:78.4

Plate Offsets (X, Y): [2:0-8-0,0-2-8], [3:0-4-0,0-4-8], [4:0-6-5,Edge], [5:0-2-1,0-2-0], [7:0-2-1,0-2-0], [8:0-6-5,Edge], [10:0-8-0,0-2-0], [12:0-3-8,0-6-0], [13:0-3-8,0-6-0]

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	0.90	Vert(LL)	-0.44	12-13	>642	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.74	12-13	>386	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.21	12-13	>672	360	Weight: 187 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP SS *Except* 1-3:2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

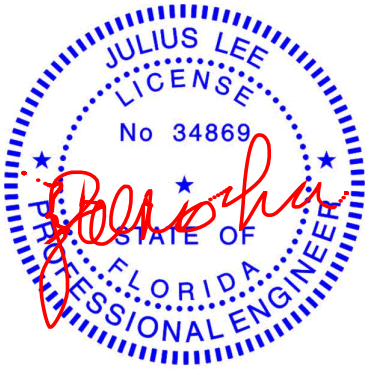
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 10=0-3-8
Max Horiz 2=212 (LC 11)
Max Grav 2=1470 (LC 18), 10=1383 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-4=-2074/0, 4-5=-1128/33, 5-6=0/914, 6-7=0/918, 7-8=-1125/33, 8-9=-2094/0, 9-10=-1931/0
BOT CHORD 2-14=0/1633, 11-14=0/1633, 10-11=0/1522
WEBS 8-12=0/1406, 4-13=0/1365, 5-15=-2397/0, 7-15=-2397/0, 6-15=0/231, 3-13=-599/59, 3-14=-487/48, 9-12=-667/71, 9-11=-476/85

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 23-8-0 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).8-12, 4-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
8) All bearings are assumed to be SP 2400F 2.0E .
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) 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:

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	D04GIR	Attic	2	4	T32209735 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:20 Page: 1
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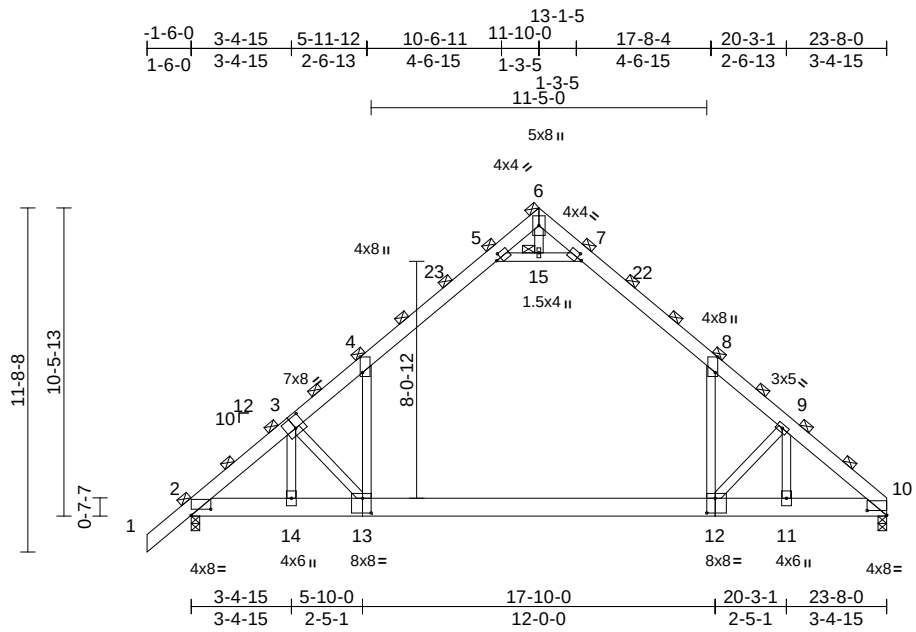


Scale = 1:78.4

Plate Offsets (X, Y): [2:0-8-0,0-2-8], [3:0-4-0,0-4-8], [4:0-6-5,Edge], [5:0-2-1,0-2-0], [7:0-2-1,0-2-0], [8:0-6-5,Edge], [10:0-8-0,0-2-0], [12:0-3-8,0-6-0], [13:0-3-8,0-6-0]

Loading	(psf)	Spacing	6-9-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.39	12-13	>731	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.64	12-13	>447	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.19	12-13	>777	360	Weight: 749 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP SS *Except* 1-3:2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

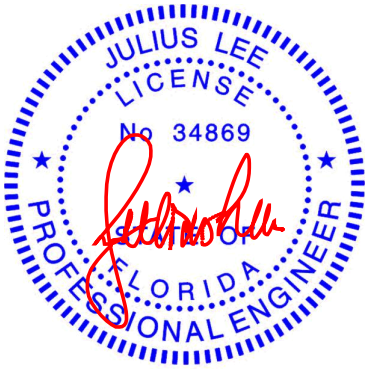
BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 15

REACTIONS (size) 2=0-3-8, 10=0-3-8
Max Horiz 2=717 (LC 11)
Max Grav 2=4990 (LC 18), 10=4695 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=0/2800, 7-8=-3972/83, 8-9=-7083/0, 9-10=-6570/0, 1-2=0/194, 2-4=-7053/0, 4-5=-3981/78, 5-6=0/2790
BOT CHORD 2-14=0/5505, 11-14=0/5505, 10-11=0/5152
WEBS 8-12=0/4504, 4-13=0/4441, 5-15=-7786/55, 7-15=-7786/55, 6-15=0/814, 3-13=-1975/294, 3-14=-1604/208, 9-12=-2184/337, 9-11=-1546/322

NOTES
1) 4-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: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 23-8-0 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
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Ceiling dead load (10.0 psf) on member(s). 7-8, 5-15, 7-15, 4-5
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
10) All bearings are assumed to be SP 2400F 2.0E .
11) 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:

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	D05	Common	5	1	T32209736
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:20
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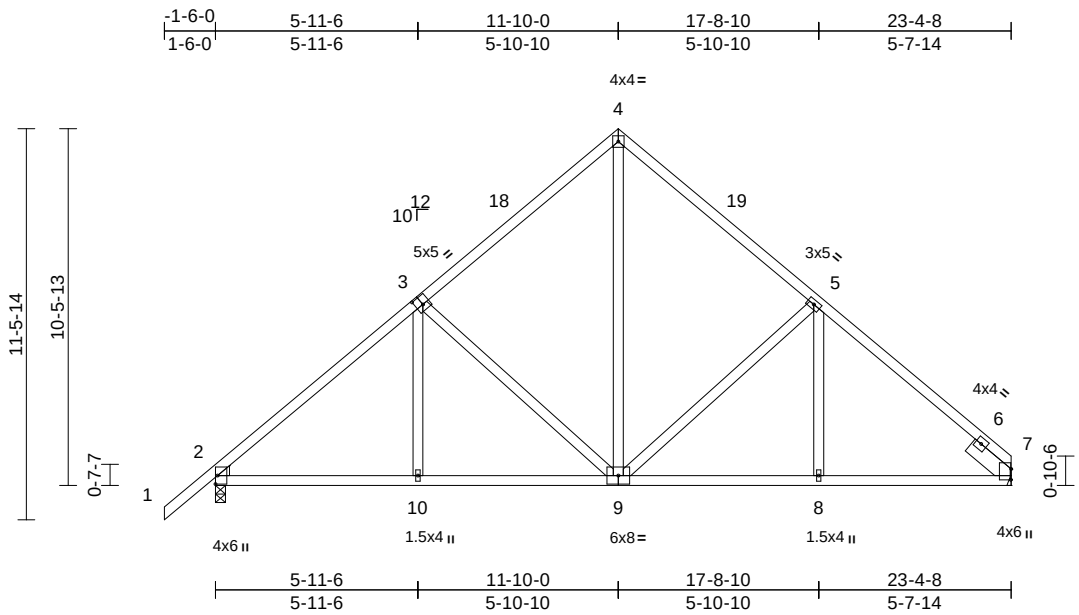


Scale = 1:67.7

Plate Offsets (X, Y): [3:0-2-8,0-3-0], [7:0-3-13,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 140 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2
SLIDER	Right 2x6 SP No.2 -- 1-6-0

BRACING

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

REACTIONS (size) 2=0-3-8, 7= Mechanical
Max Horiz 2=210 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1028 (LC 1), 7=932 (LC 1)

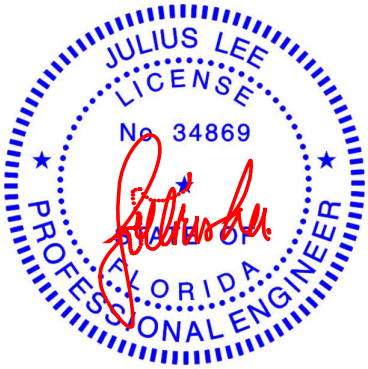
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/58, 2-4=-1171/135, 4-5=-836/137, 5-7=-1124/70
BOT CHORD	2-10=-54/853, 8-10=0/852, 7-8=-47/792
WEBS	3-10=0/227, 3-9=-393/105, 4-9=-60/580, 5-9=-360/107, 5-8=0/206

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 23-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

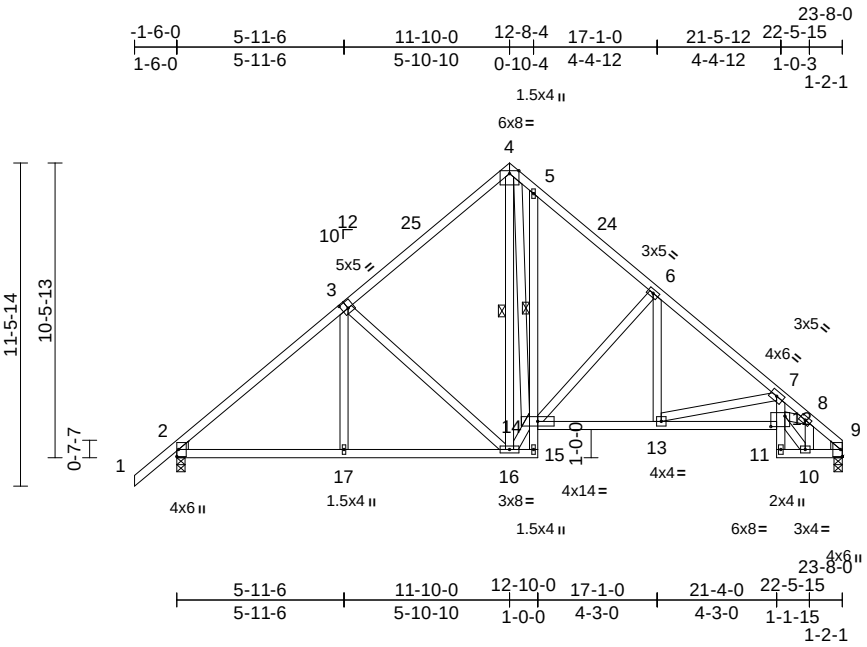
November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	D06	Roof Special	3	1	T32209737 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:21 Page: 1
ID:1qRXCDfZwfpGeLihfXC9jyyIHD5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:81.9

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

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	0.29	Vert(LL)	-0.07	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.14	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 178 lb	FT = 20%

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

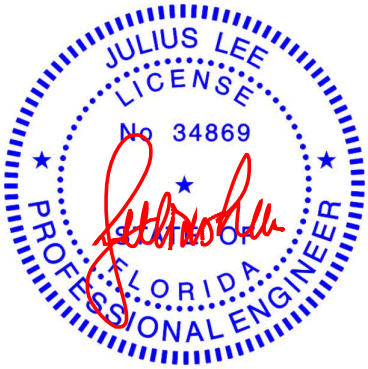
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-14
WEBS 1 Row at midpt 4-16

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=212 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1040 (LC 1), 9=944 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-769/162, 5-6=-956/127, 6-7=-1323/71, 7-8=-2646/54, 8-9=-1084/35, 1-2=0/58, 2-4=-1187/136
BOT CHORD 2-17=-52/865, 16-17=0/864, 15-16=-8/84, 14-15=-135/0, 5-14=-63/109, 13-14=0/981, 12-13=-35/2181, 11-12=0/110, 7-12=0/1032, 10-11=-9/166, 9-10=-7/749
WEBS 6-14=-482/78, 7-13=-1233/82, 3-17=0/226, 3-16=-388/106, 4-16=-168/39, 14-16=0/771, 4-14=-4/842, 6-13=0/341, 8-10=-928/8, 8-12=-8/1278, 10-12=0/940

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 23-8-0 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.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	D07	Roof Special	1	1	T32209738 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:21 Page: 1
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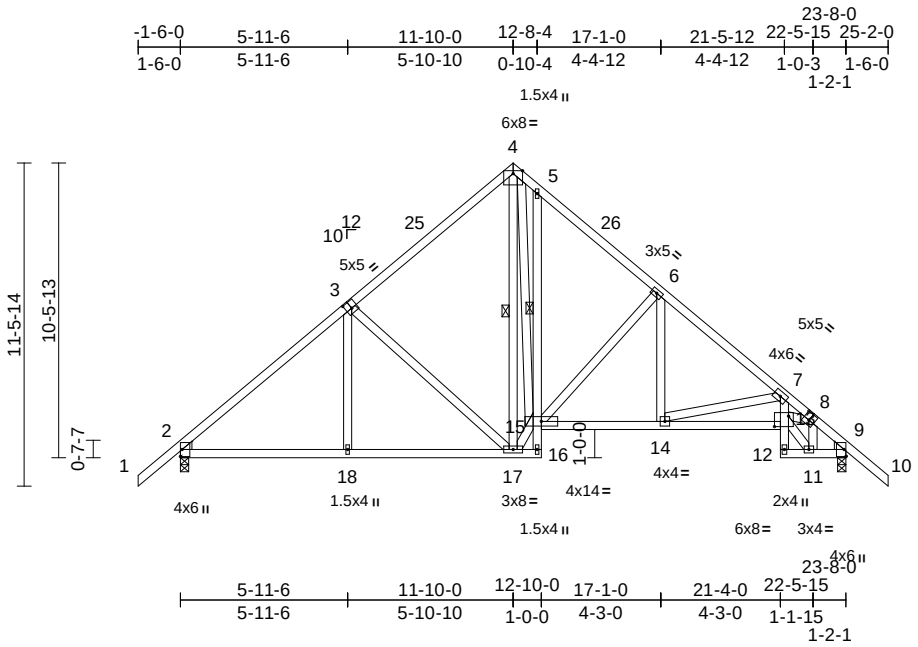


Scale = 1:81.9

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

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	0.29	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.14	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 181 lb	FT = 20%

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

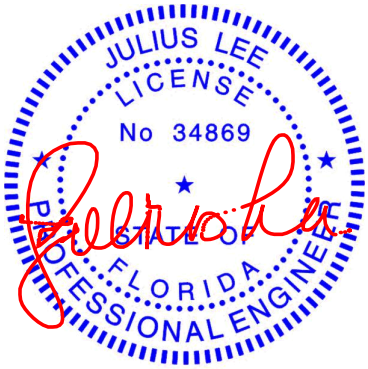
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-15
WEBS 1 Row at midpt 4-17

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=221 (LC 11)
Max Uplift 2=-37 (LC 12), 9=-37 (LC 12)
Max Grav 2=1037 (LC 1), 9=1037 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-4=-1183/135, 4-5=-764/160, 5-6=-950/115, 6-7=-1309/48, 7-9=-2563/9, 9-10=0/58
BOT CHORD 2-18=-33/875, 17-18=0/874, 16-17=-3/83, 15-16=-135/0, 5-15=-65/109, 14-15=0/970, 13-14=0/2116, 12-13=0/115, 7-13=0/962, 11-12=-2/160, 9-11=0/692
WEBS 6-15=-471/71, 7-14=-1177/27, 3-18=0/227, 3-17=-388/107, 4-17=-178/59, 15-17=0/784, 4-15=0/835, 6-14=0/338, 8-11=-949/0, 8-13=0/1240, 11-13=0/919

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 25-2-0 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
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.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 lb uplift at joint 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	D08	Common	1	1	T32209739
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:22
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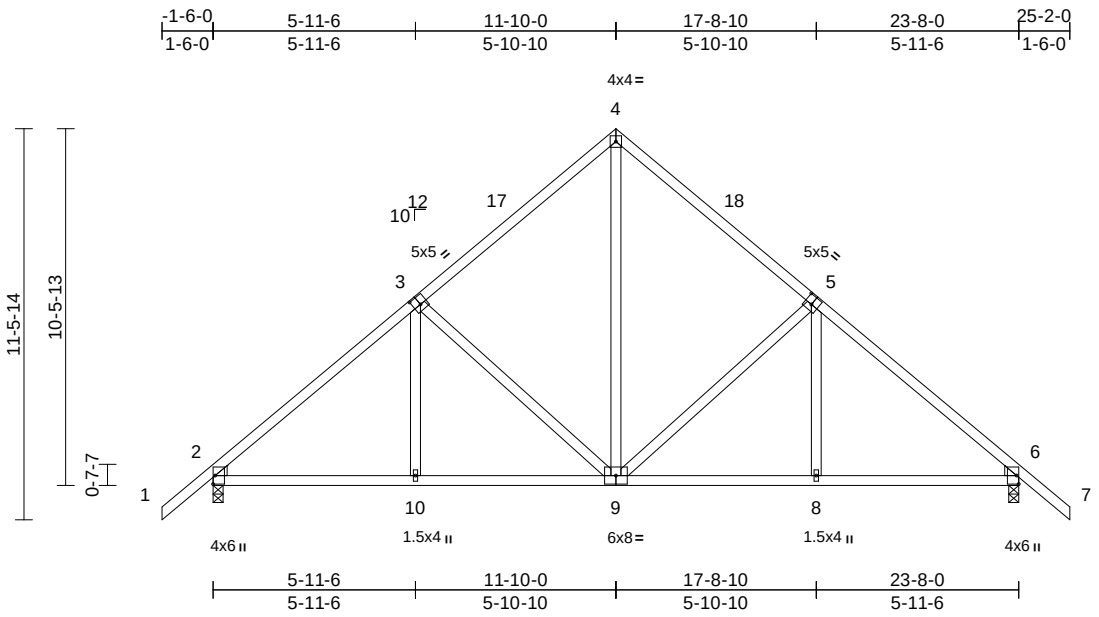


Scale = 1:67.7

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

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	0.30	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.08	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 140 lb	FT = 20%

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

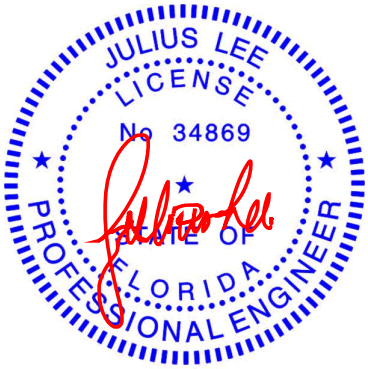
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-221 (LC 10)
Max Uplift 2=-37 (LC 12), 6=-37 (LC 12)
Max Grav 2=1037 (LC 1), 6=1037 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-4=-1185/135, 4-6=-1185/135, 6-7=0/58
BOT CHORD 2-10=-32/876, 8-10=0/875, 6-8=0/830
WEBS 3-10=0/228, 3-9=-394/105, 4-9=-58/605, 5-9=-395/105, 5-8=0/228

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior (1) 14-10-0 to 25-2-0 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
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.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 lb uplift at joint 6.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	D09GE	Common Supported Gable	1	1	T32209740 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:22

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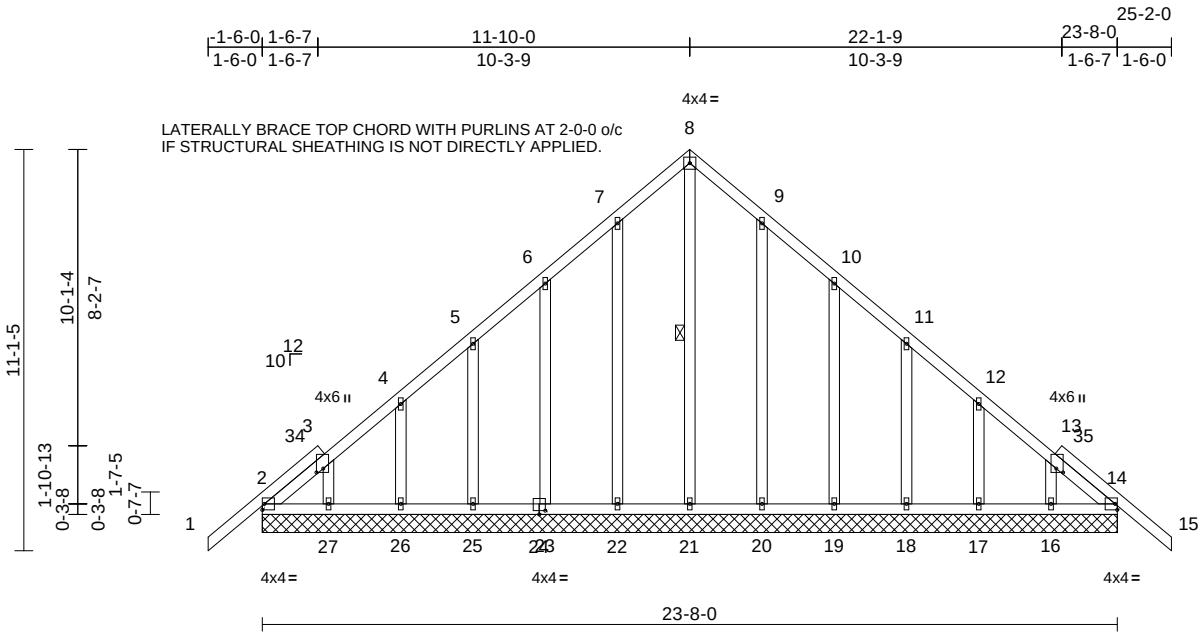


Scale = 1:63.8

Plate Offsets (X, Y): [3:0-1-5,0-2-4], [13:0-1-5,0-2-4], [24:0-2-0,0-1-4]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	31	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 175 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 8-21

REACTIONS (size) 2=23-8-0, 14=23-8-0, 16=23-8-0, 17=23-8-0, 18=23-8-0, 19=23-8-0, 20=23-8-0, 21=23-8-0, 22=23-8-0, 23=23-8-0, 25=23-8-0, 26=23-8-0, 27=23-8-0, 28=23-8-0, 31=23-8-0
Max Horiz 2=-214 (LC 10), 28=-214 (LC 10)
Max Uplift 2=-20 (LC 8), 16=-17 (LC 8), 17=-30 (LC 12), 18=-32 (LC 12), 19=-38 (LC 12), 20=-24 (LC 12), 22=-24 (LC 12), 23=-38 (LC 12), 25=-32 (LC 12), 26=-30 (LC 12), 27=-21 (LC 9), 28=-20 (LC 8)
Max Grav 2=218 (LC 18), 14=205 (LC 1), 16=138 (LC 18), 17=172 (LC 18), 18=168 (LC 18), 19=170 (LC 18), 20=172 (LC 18), 21=167 (LC 12), 22=175 (LC 17), 23=169 (LC 17), 25=168 (LC 17), 26=168 (LC 1), 27=144 (LC 17), 28=218 (LC 18), 31=205 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-3=-153/161, 3-4=-137/134, 4-5=-130/117, 5-6=-116/92, 6-7=-103/127, 7-8=-119/186, 8-9=-119/186, 9-10=-85/127, 10-11=-66/58, 11-12=-80/50, 12-13=-93/70, 13-14=-149/100, 14-15=0/58

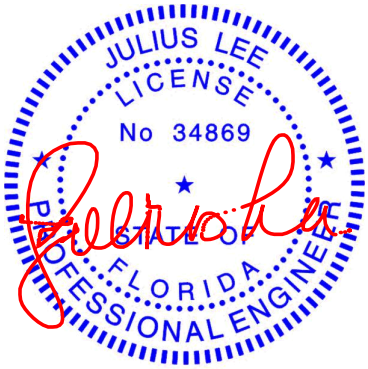
BOT CHORD 2-27=-103/192, 26-27=-84/192, 25-26=-84/192, 23-25=-84/192, 22-23=-84/192, 21-22=-84/192, 20-21=-84/192, 19-20=-84/192, 18-19=-84/192, 17-18=-84/192, 16-17=-84/192, 14-16=-84/192

WEBS 8-21=-182/67, 7-22=-135/68, 6-23=-128/85, 5-25=-129/78, 4-26=-125/74, 3-27=-116/72, 9-20=-132/68, 10-19=-130/85, 11-18=-129/78, 12-17=-129/74, 13-16=-111/73

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=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-10-0, Corner(3R) 11-10-0 to 14-10-0, Exterior(2N) 14-10-0 to 25-2-0 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
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 20 lb uplift at joint 2, 24 lb uplift at joint 22, 38 lb uplift at joint 23, 32 lb uplift at joint 25, 30 lb uplift at joint 26, 21 lb uplift at joint 27, 24 lb uplift at joint 20, 38 lb uplift at joint 19, 32 lb uplift at joint 18, 30 lb uplift at joint 17, 17 lb uplift at joint 16 and 20 lb uplift at joint 2.
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:

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	M01	Monopitch	1	1	T32209741
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:22
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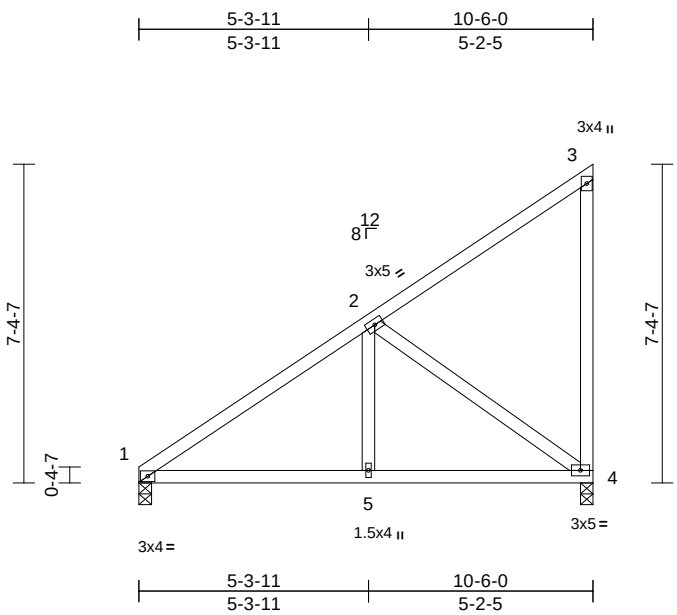
Page: 1



Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.04	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 58 lb	FT = 20%

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

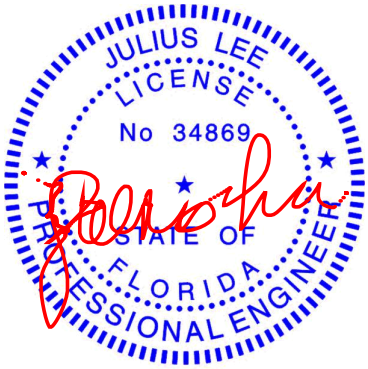
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-8, 4=0-3-8
Max Horiz 1=209 (LC 11)
Max Uplift 4=-37 (LC 9)
Max Grav 1=414 (LC 1), 4=430 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-486/82, 2-3=-163/131, 3-4=-140/116
BOT CHORD 1-5=-200/406, 4-5=-200/406
WEBS 2-5=0/239, 2-4=-444/157

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) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4.
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



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Date:

November 29,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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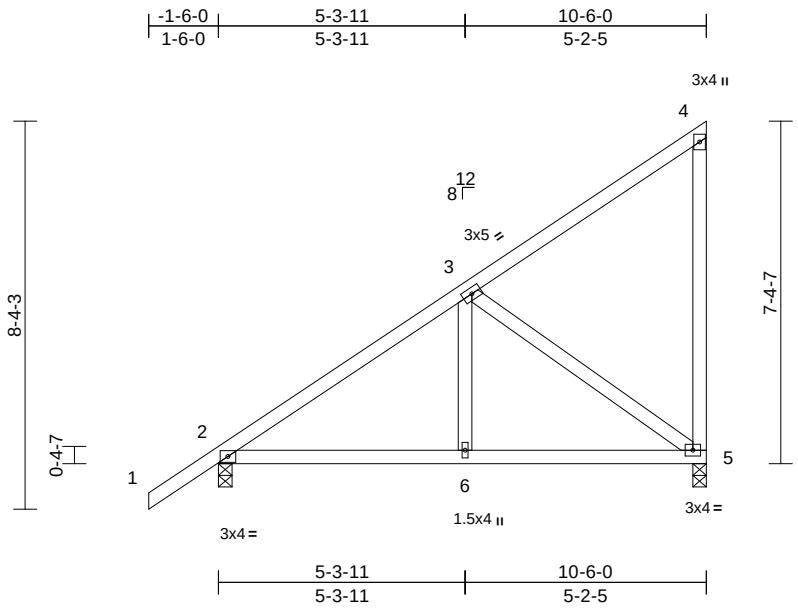
Job	Truss	Truss Type	Qty	Ply	
1123-031	M02	Monopitch	1	1	T32209742 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:23 Page: 1
ID:KGTuysacFhFd8sx5Yn2lFmyIHBw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:49.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%

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

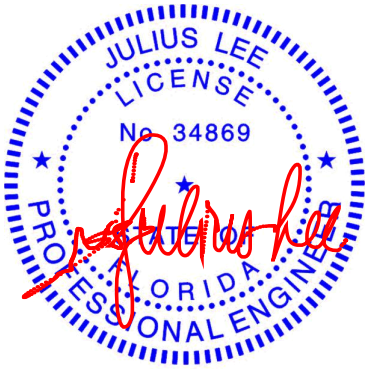
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=222 (LC 11)
Max Uplift 2=-31 (LC 12), 5=-36 (LC 9)
Max Grav 2=511 (LC 1), 5=424 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-490/70, 3-4=-163/131, 4-5=-140/117
BOT CHORD 2-6=-192/407, 5-6=-192/407
WEBS 3-6=0/236, 3-5=-427/148

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 10-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 36 lb uplift at joint 5.
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



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November 29,2023

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Job	Truss	Truss Type	Qty	Ply	
1123-031	M03	Monopitch	1	1	T32209743
					Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:23 Page: 1
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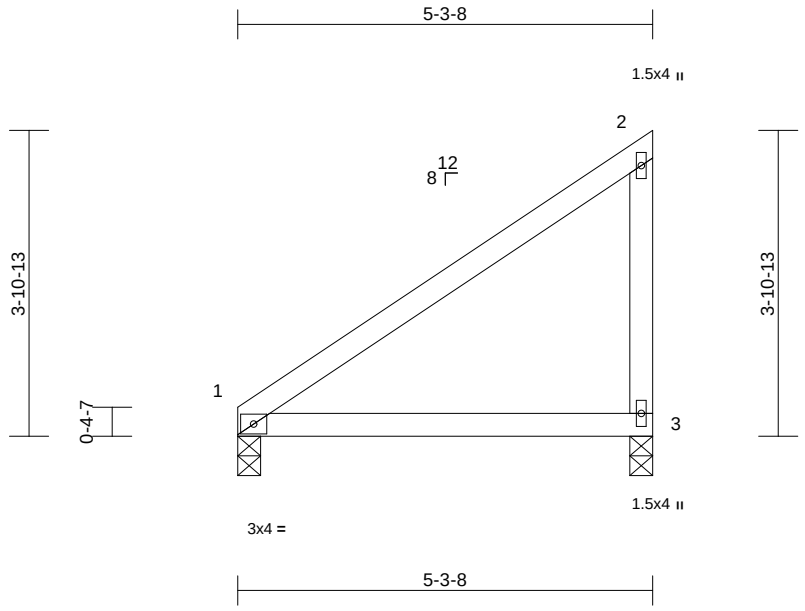


Scale = 1:29.4

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	0.34	Vert(LL)	0.05	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.07	3-6	>860	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

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

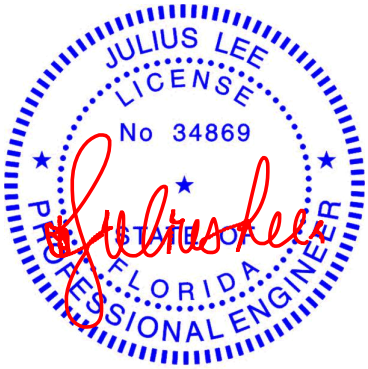
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-8, 3=0-3-8
Max Horiz 1=105 (LC 11)
Max Uplift 1=-19 (LC 12), 3=-43 (LC 9)
Max Grav 1=209 (LC 18), 3=232 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-142/117, 2-3=-184/170
BOT CHORD 1-3=-111/111

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; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 43 lb uplift at joint 3.
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



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Date:

November 29,2023

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Job	Truss	Truss Type	Qty	Ply	
1123-031	M04	Monopitch	1	1	T32209744 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:23 Page: 1
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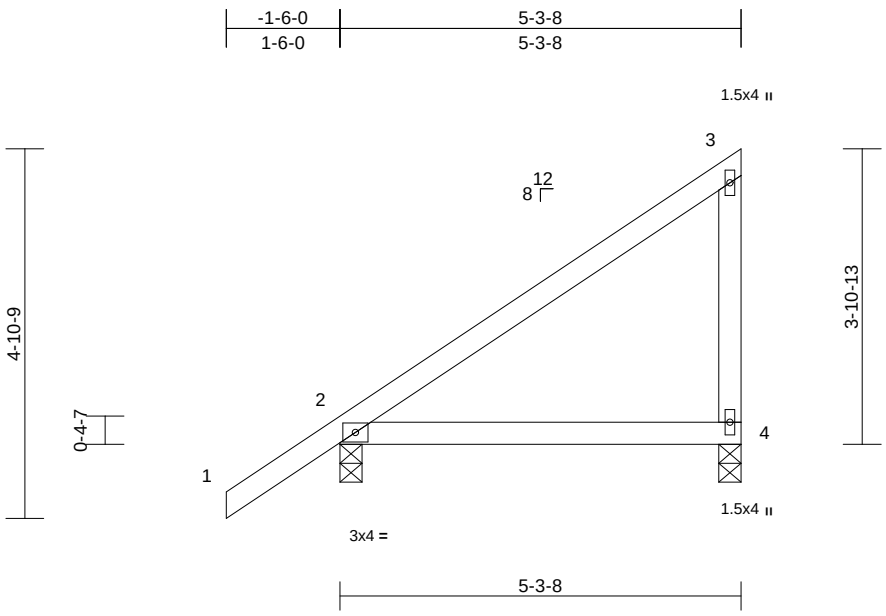


Scale = 1:30.4

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	0.34	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.07	4-7	>870	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 25 lb	FT = 20%

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

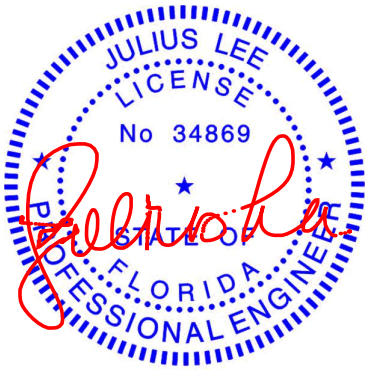
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=118 (LC 11)
Max Uplift 2=-65 (LC 12), 4=-42 (LC 9)
Max Grav 2=309 (LC 1), 4=220 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-175/118, 3-4=-185/164
BOT CHORD 2-4=-68/126

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; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 65 lb uplift at joint 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Date:

November 29,2023

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Job	Truss	Truss Type	Qty	Ply	
1123-031	MG01	Monopitch Girder	1	2	T32209745 Job Reference (optional)

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

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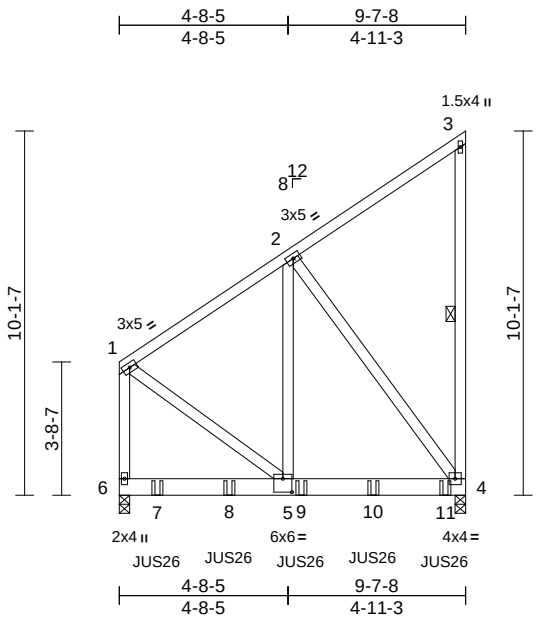


Scale = 1:64

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

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	0.21	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 173 lb	FT = 20%

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

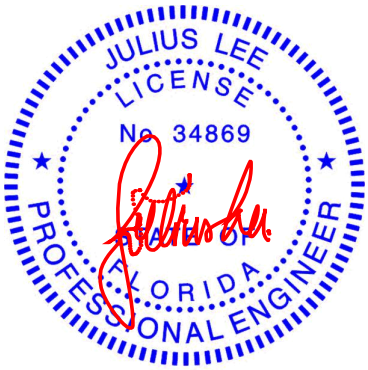
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-4

REACTIONS (size) 4=0-3-8, 6=0-3-8
Max Horiz 6=283 (LC 5)
Max Grav 4=2781 (LC 1), 6=2532 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1405/0, 2-3=-179/94, 3-4=-128/53, 1-6=-1656/0
BOT CHORD 5-6=-248/184, 4-5=0/1115
WEBS 2-5=0/1898, 2-4=-1849/0, 1-5=0/1330

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) 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
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) 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) All bearings are assumed to be SP No.2 .
8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-913 (F), 8=-912 (F), 9=-912 (F), 10=-912 (F), 11=-918 (F)



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November 29,2023

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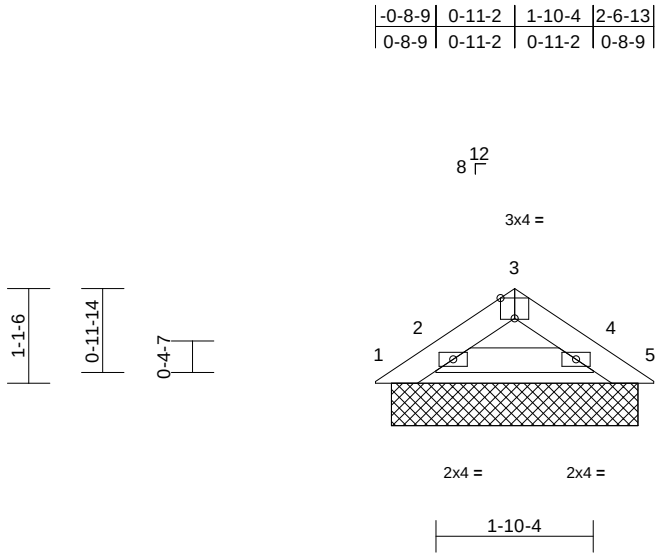
Job	Truss	Truss Type	Qty	Ply	
1123-031	PB01	Piggyback	1	1	T32209746 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:24 Page: 1
ID:HbQTheIYXCPx_jf4CGlhVIyIGlt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:27.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 9 lb	FT = 20%

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

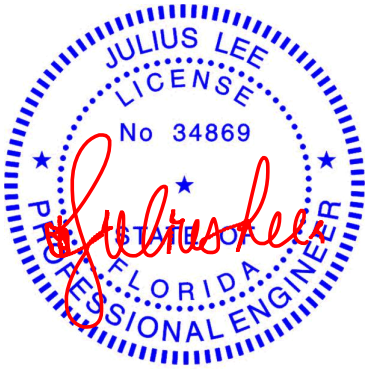
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=2-10-14, 2=2-10-14, 5=2-10-14, 6=2-10-14
Max Horiz 1=-17 (LC 10)
Max Uplift 1=-26 (LC 17)
Max Grav 1=-1 (LC 9), 2=172 (LC 1), 5=87 (LC 1), 6=172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-11/44, 2-3=-66/31, 3-4=-68/27, 4-5=-46/23
BOT CHORD 2-4=-7/57

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=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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB02	Piggyback	2	1	T32209747 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:24 Page: 1
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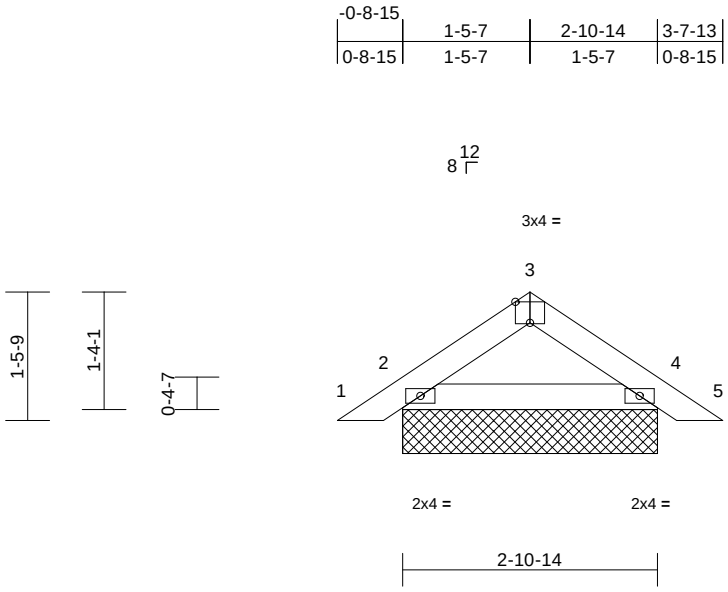


Scale = 1:26.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 12 lb	FT = 20%

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

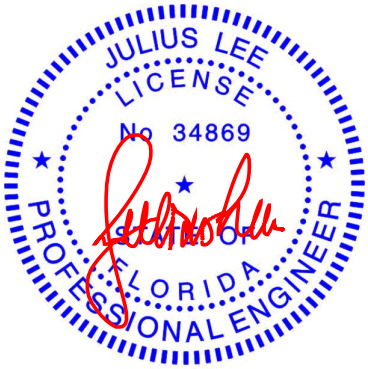
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=2-10-14, 4=2-10-14, 6=2-10-14, 10=2-10-14
Max Horiz 2=-24 (LC 10), 6=-24 (LC 10)
Max Uplift 2=-11 (LC 12), 4=-7 (LC 12), 6=-11 (LC 12), 10=-7 (LC 12)
Max Grav 2=146 (LC 1), 4=153 (LC 1), 6=146 (LC 1), 10=153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-85/39, 3-4=-86/38, 4-5=0/16
BOT CHORD 2-4=0/67

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=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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 7 lb uplift at joint 4, 11 lb uplift at joint 2 and 7 lb uplift at joint 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB03	Piggyback	2	1	T32209748 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:24 Page: 1
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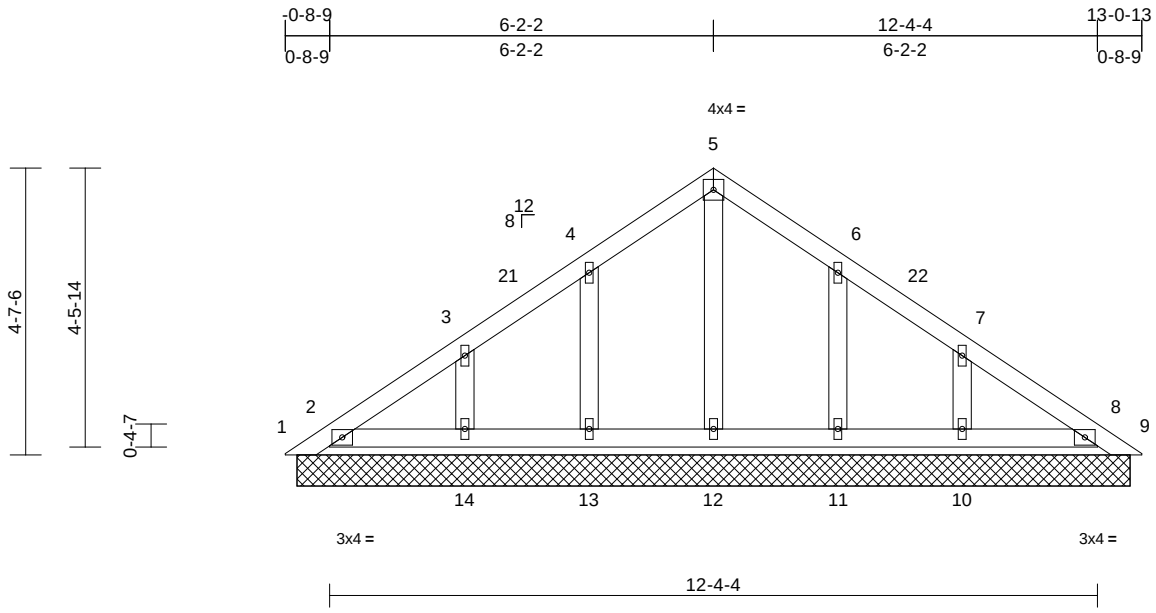


Scale = 1:37.1

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 60 lb	FT = 20%

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

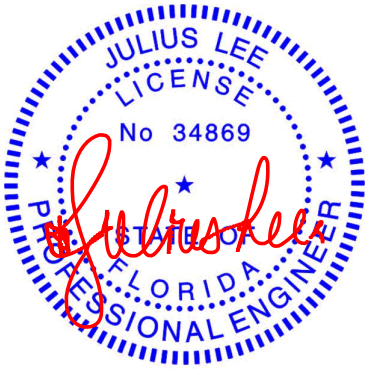
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=13-4-14, 2=13-4-14, 8=13-4-14, 9=13-4-14, 10=13-4-14, 11=13-4-14, 12=13-4-14, 13=13-4-14, 14=13-4-14, 15=13-4-14, 18=13-4-14
Max Horiz 1=-82 (LC 10)
Max Uplift 1=-73 (LC 10), 9=-31 (LC 18), 10=-25 (LC 12), 11=-20 (LC 12), 13=-20 (LC 12), 14=-24 (LC 12)
Max Grav 1=39 (LC 11), 2=186 (LC 17), 8=165 (LC 1), 9=6 (LC 12), 10=175 (LC 18), 11=163 (LC 24), 12=132 (LC 1), 13=163 (LC 17), 14=176 (LC 17), 15=186 (LC 17), 18=165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-88/120, 2-3=-71/57, 3-4=-75/40, 4-5=-71/87, 5-6=-71/85, 6-7=-55/34, 7-8=-50/28, 8-9=-6/39
BOT CHORD 2-14=-27/59, 13-14=-27/59, 12-13=-27/59, 11-12=-27/59, 10-11=-27/59, 8-10=-27/59
WEBS 5-12=-90/0, 4-13=-126/74, 3-14=-125/70, 6-11=-126/74, 7-10=-125/71

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-10 to 3-9-10, Interior (1) 3-9-10 to 7-5-6, Exterior(2R) 7-5-6 to 10-5-6, Interior (1) 10-5-6 to 14-1-1 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 20 lb uplift at joint 13, 24 lb uplift at joint 14, 20 lb uplift at joint 11, 25 lb uplift at joint 10, 73 lb uplift at joint 1 and 31 lb uplift at joint 9.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



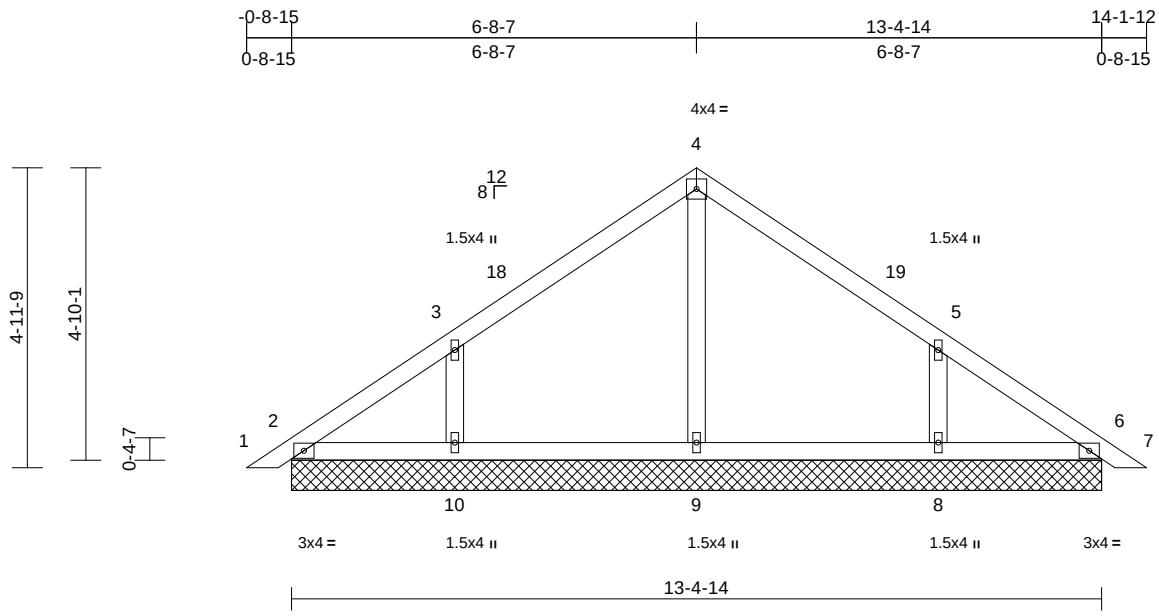
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 29,2023

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB04	Piggyback	14	1	T32209749 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:25 ID:jHABWmji1a0kKqp3nOijobyIH7s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	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	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 58 lb	FT = 20%

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

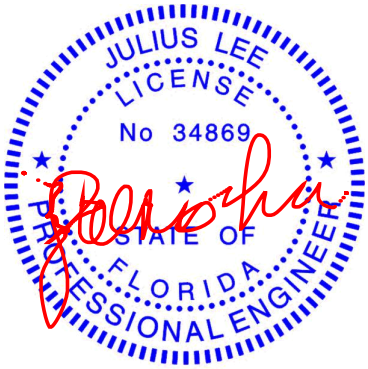
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=13-4-14, 6=13-4-14, 8=13-4-14, 9=13-4-14, 10=13-4-14, 11=13-4-14, 15=13-4-14
Max Horiz 2=-88 (LC 10), 11=-88 (LC 10)
Max Uplift 2=-1 (LC 12), 6=-1 (LC 12), 8=-41 (LC 12), 10=-41 (LC 12), 11=-1 (LC 12), 15=-1 (LC 12)
Max Grav 2=130 (LC 1), 6=130 (LC 1), 8=310 (LC 24), 9=267 (LC 1), 10=311 (LC 17), 11=130 (LC 1), 15=130 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-91/64, 3-4=-116/85, 4-5=-113/85, 5-6=-67/33, 6-7=0/16
BOT CHORD 2-10=-18/54, 9-10=-18/54, 8-9=-18/54, 6-8=-18/54
WEBS 4-9=-185/2, 3-10=-235/124, 5-8=-235/124

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-2 to 3-5-6, Interior (1) 3-5-6 to 7-5-6, Exterior(2R) 7-5-6 to 10-5-6, Interior (1) 10-5-6 to 14-7-9 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 1 lb uplift at joint 6, 41 lb uplift at joint 10, 41 lb uplift at joint 8, 1 lb uplift at joint 2 and 1 lb uplift at joint 6.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB05	Piggyback	2	1	T32209750 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:25 Page: 1
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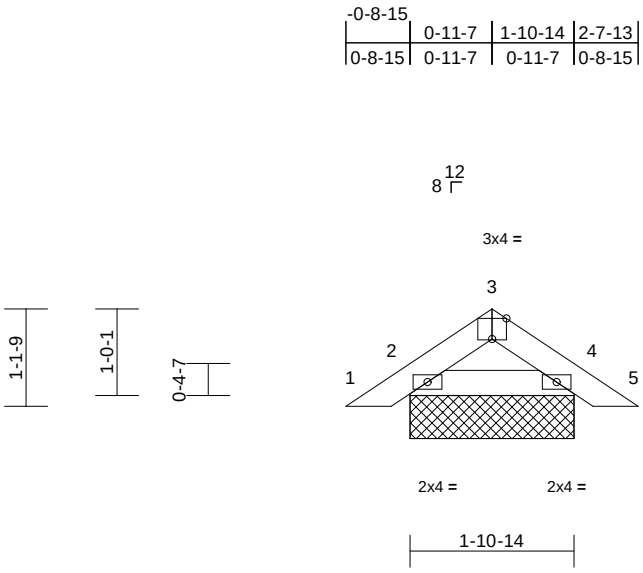


Scale = 1:26.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

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

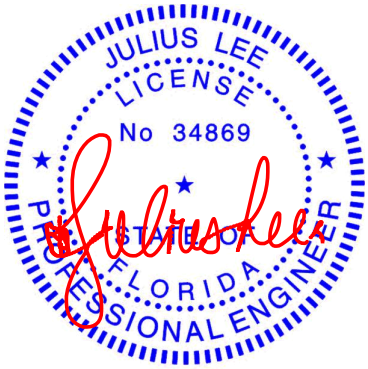
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=1-10-14, 4=1-10-14, 6=1-10-14, 10=1-10-14
Max Horiz 2=-18 (LC 10), 6=-18 (LC 10)
Max Uplift 2=-11 (LC 12), 4=-8 (LC 12), 6=-11 (LC 12), 10=-8 (LC 12)
Max Grav 2=106 (LC 1), 4=112 (LC 1), 6=106 (LC 1), 10=112 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-48/23, 3-4=-48/20, 4-5=0/16
BOT CHORD 2-4=-2/41

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=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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 8 lb uplift at joint 4, 11 lb uplift at joint 2 and 8 lb uplift at joint 4.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB06	Piggyback	1	1	T32209751 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:25 Page: 1
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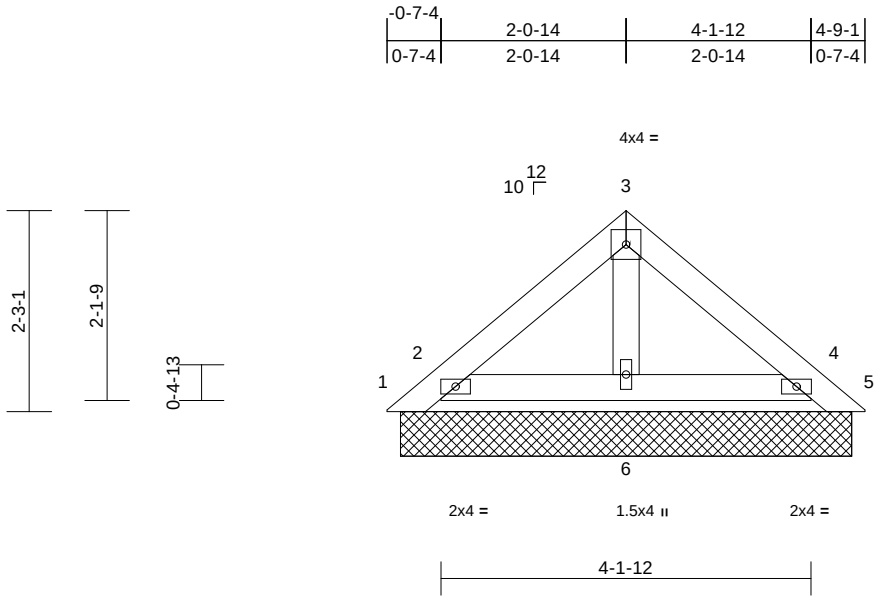


Scale = 1:25.8

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 19 lb	FT = 20%

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

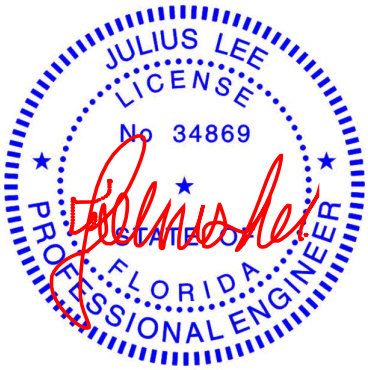
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=5-0-11, 2=5-0-11, 4=5-0-11, 5=5-0-11, 6=5-0-11, 7=5-0-11, 10=5-0-11
Max Horiz 1=41 (LC 11)
Max Uplift 1=-79 (LC 17), 2=-18 (LC 12), 4=-24 (LC 12), 5=-55 (LC 18), 7=-18 (LC 12), 10=-24 (LC 12)
Max Grav 1=25 (LC 9), 2=216 (LC 17), 4=189 (LC 18), 5=16 (LC 12), 6=121 (LC 1), 7=216 (LC 17), 10=189 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-50/93, 2-3=-65/48, 3-4=-64/51, 4-5=-31/55
BOT CHORD 2-6=-18/40, 4-6=-18/40
WEBS 3-6=-57/5

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=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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 24 lb uplift at joint 4, 79 lb uplift at joint 1, 55 lb uplift at joint 5, 18 lb uplift at joint 2 and 24 lb uplift at joint 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

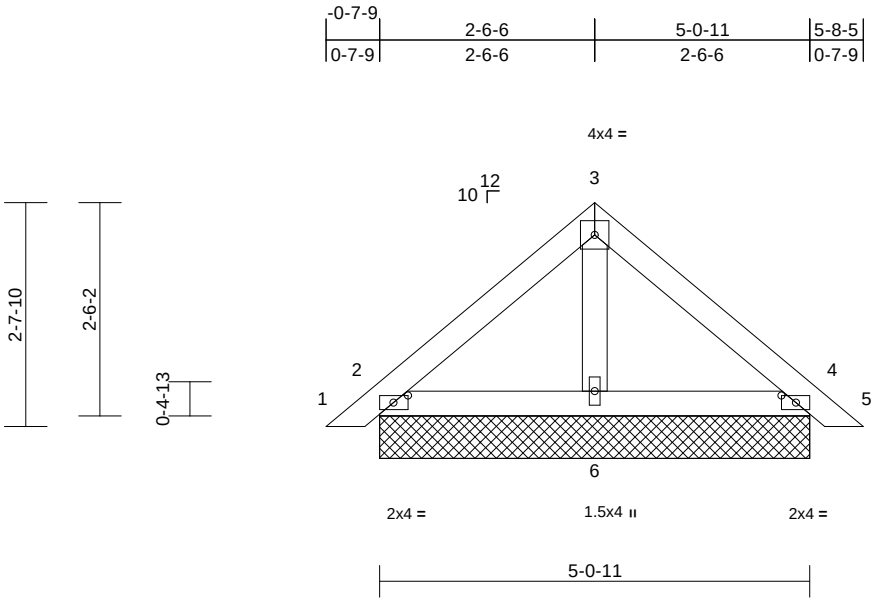
November 29,2023

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

Job	Truss	Truss Type	Qty	Ply	
1123-031	PB07	Piggyback	3	1	T32209752 Job Reference (optional)

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Tue Nov 28 11:22:25 ID:jOMJSDgNue1KPvV?lyRxzRyIGvj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:27.1

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

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

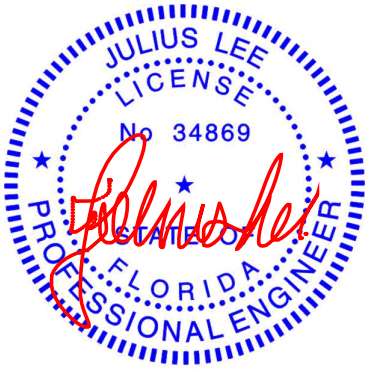
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=5-0-11, 4=5-0-11, 6=5-0-11, 7=5-0-11, 11=5-0-11
Max Horiz 2=-49 (LC 10), 7=-49 (LC 10)
Max Uplift 2=-21 (LC 12), 4=-21 (LC 12), 7=-21 (LC 12), 11=-21 (LC 12)
Max Grav 2=145 (LC 1), 4=145 (LC 1), 6=164 (LC 1), 7=145 (LC 1), 11=145 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-91/66, 3-4=-91/71, 4-5=0/15
BOT CHORD 2-6=-10/44, 4-6=-8/44
WEBS 3-6=-64/0

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=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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 21 lb uplift at joint 4, 21 lb uplift at joint 2 and 21 lb uplift at joint 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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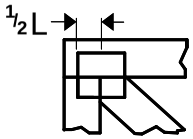
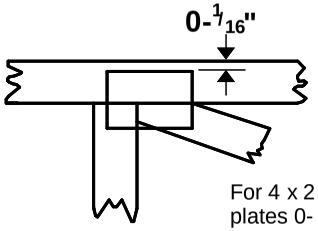
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

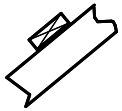
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

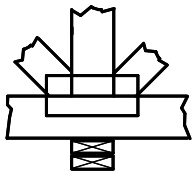
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

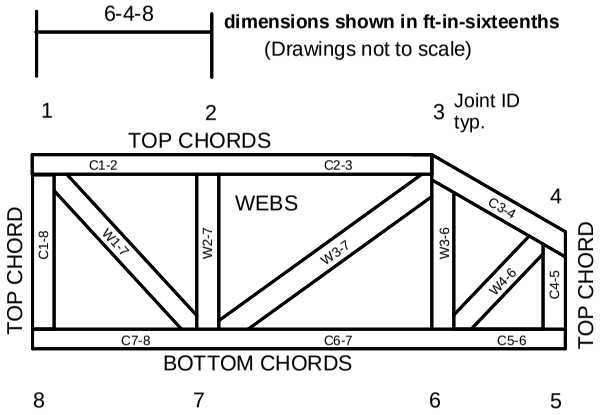


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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