



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

RE: 1224-061 - Revis

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 52 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.

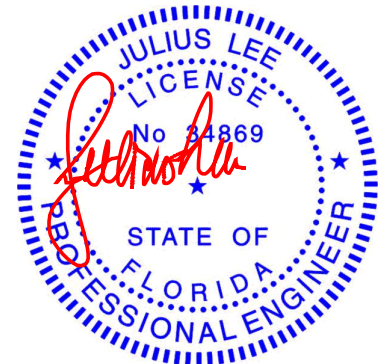
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35960426	A01	1/6/25	23	T35960448	D02	1/6/25
2	T35960427	A02	1/6/25	24	T35960449	D03	1/6/25
3	T35960428	A03	1/6/25	25	T35960450	D04	1/6/25
4	T35960429	B01	1/6/25	26	T35960451	D05	1/6/25
5	T35960430	B02	1/6/25	27	T35960452	G01	1/6/25
6	T35960431	B03	1/6/25	28	T35960453	G02	1/6/25
7	T35960432	C01	1/6/25	29	T35960454	G03	1/6/25
8	T35960433	C02	1/6/25	30	T35960455	H01	1/6/25
9	T35960434	C03	1/6/25	31	T35960456	H02	1/6/25
10	T35960435	C04	1/6/25	32	T35960457	H03	1/6/25
11	T35960436	C05	1/6/25	33	T35960458	H04	1/6/25
12	T35960437	C06	1/6/25	34	T35960459	H05	1/6/25
13	T35960438	C07	1/6/25	35	T35960460	J01	1/6/25
14	T35960439	C08	1/6/25	36	T35960461	J02	1/6/25
15	T35960440	C09	1/6/25	37	T35960462	J03	1/6/25
16	T35960441	C10	1/6/25	38	T35960463	J04	1/6/25
17	T35960442	C11	1/6/25	39	T35960464	J05	1/6/25
18	T35960443	C12	1/6/25	40	T35960465	J06	1/6/25
19	T35960444	C13	1/6/25	41	T35960466	J07	1/6/25
20	T35960445	CJ01	1/6/25	42	T35960467	J08	1/6/25
21	T35960446	CJ02	1/6/25	43	T35960468	J09	1/6/25
22	T35960447	D01	1/6/25	44	T35960469	PB01	1/6/25

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

Truss Design Engineer's Name: Lee, Julius

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

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



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

January 6, 2025



RE: 1224-061 - Revis

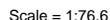
MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

No.	Seal#	Truss Name	Date
45	T35960470	PB02	1/6/25
46	T35960471	PB03	1/6/25
47	T35960472	T01	1/6/25
48	T35960473	T02	1/6/25
49	T35960474	T03	1/6/25
50	T35960475	T04	1/6/25
51	T35960476	T05	1/6/25
52	T35960477	T06	1/6/25

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:32 Page: 1
ID:tpQR9Y6vfJtdMxaANN ALdy59vQ-RfC?PsB70Hg3NSqPanL8w3ulTXbGKWrcDoI7J4zJC?f



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)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.20	15-16	>999	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 295 lb	FT = 20%

A circular blue seal for a Professional Engineer in the State of Florida. The outer ring contains the text "JULIUS LEE" at the top, "LICENSE" below it, "No 34869" in the center, and "PROFESSIONAL ENGINEER" at the bottom. Two stars are positioned on the left and right sides. The words "STATE OF FLORIDA" are written in a smaller arc across the middle. A red signature, "Julius Lee", is written over the seal.

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

January 6, 2025



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

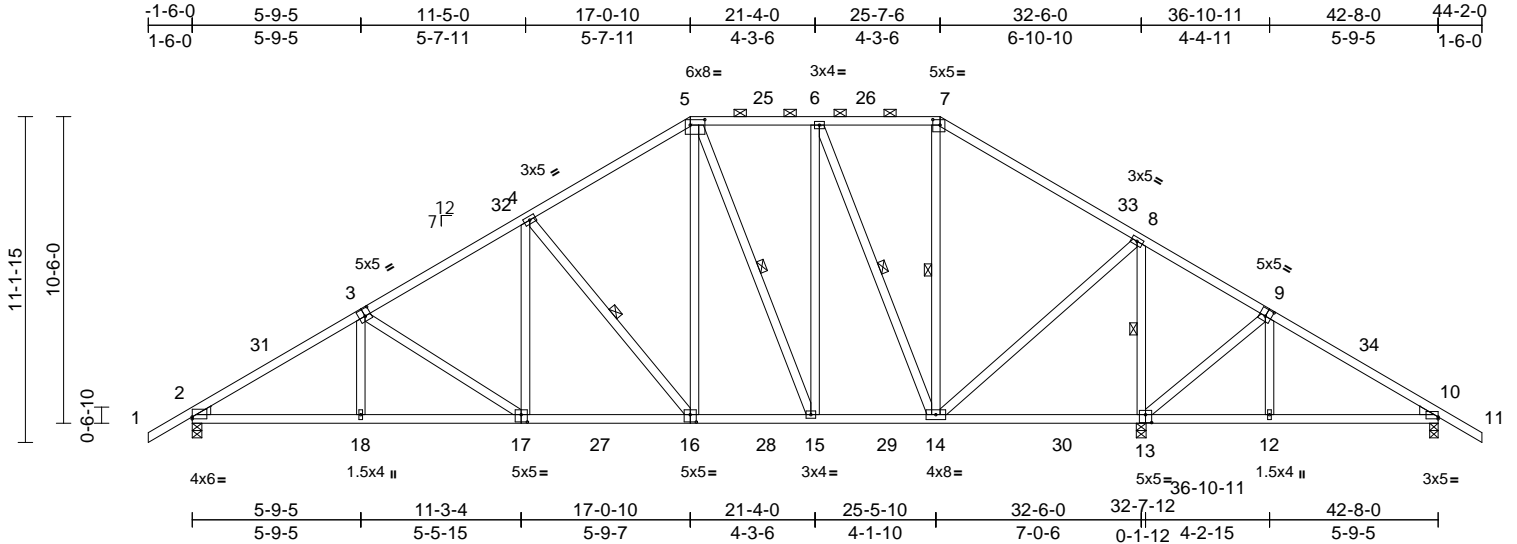
Job	Truss	Truss Type	Qty	Ply	Revis	T35960427
1224-061	A02	Piggyback Base	5	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:33

Page: 1

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Scale = 1:78.9

Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-2-8,0-3-0], [5:0-6-0,0-2-4], [7:0-3-0,0-2-4], [9:0-2-8,0-3-0], [10:Edge,0-0-13], [13:0-2-8,0-3-0], [16:0-2-8,0-3-0], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.11	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.20	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/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
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-16, 6-14, 7-14, 8-13, 5-15

REACTIONS

(size) 2=0-4-0, 10=0-3-7, 13=0-4-0
Max Horiz 2=-201 (LC 10)
Max Uplift 2=-38 (LC 12), 10=-47 (LC 12)
Max Grav 2=1521 (LC 17), 10=353 (LC 24), 13=2245 (LC 18)

FORCES

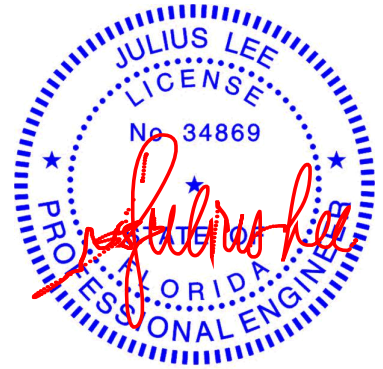
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-946/178, 6-7=-682/170, 1-2=0/45, 2-4=-2280/134, 4-5=-1361/175, 7-8=-863/156, 8-10=-178/495, 10-11=0/45
BOT CHORD 2-18=-77/2029, 15-18=0/2026, 14-15=0/1017, 12-14=-310/100, 10-12=-154/83
WEBS 4-16=-745/96, 5-16=-10/800, 6-14=-819/35, 7-14=-46/174, 8-14=0/1340, 8-13=-1739/101, 9-13=-444/45, 9-12=0/196, 6-15=0/558, 5-15=-446/12, 3-18=0/197, 4-17=0/486, 3-17=-427/53

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 2-9-3,
Zone1 2-9-3 to 17-0-10, Zone2 17-0-10 to 23-1-1, Zone1
23-1-1 to 25-7-6, Zone2 25-7-6 to 31-7-12, Zone1
31-7-12 to 44-2-0 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
2 and 47 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard



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

January 6,2025

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

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

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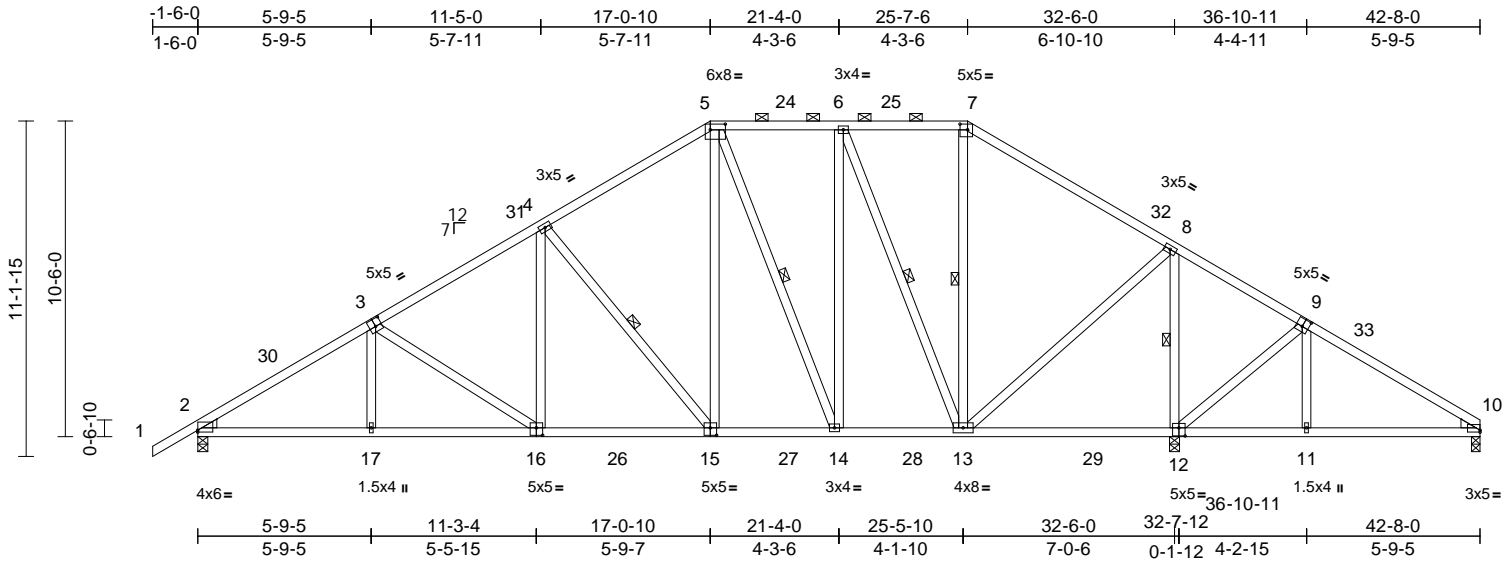
Job	Truss	Truss Type	Qty	Ply	Revis	T35960428
1224-061	A03	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:33

Page: 1

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Scale = 1:76.7

Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-2-8,0-3-0], [5:0-6-0,0-2-4], [7:0-3-0,0-2-4], [9:0-2-8,0-3-0], [10:Edge,0-0-13], [12:0-2-8,0-3-0], [15:0-2-8,0-3-0], [16:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.21	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 288 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.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-11-14 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-15, 6-13, 7-13, 8-12, 5-14

REACTIONS

(size) 2=0-4-0, 10=0-3-7, 12=0-4-0
Max Horiz 2=197 (LC 11)
Max Uplift 2=-38 (LC 12), 10=-5 (LC 12)
Max Grav 2=1524 (LC 17), 10=271 (LC 24), 12=2236 (LC 18)

FORCES

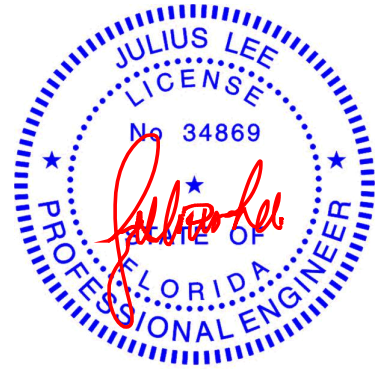
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-953/169, 6-7=-692/159, 1-2=0/45, 2-4=-2287/121, 4-5=-1368/164, 7-8=-874/149, 8-10=-216/472
BOT CHORD 2-17=-93/2026, 14-17=-12/2023, 13-14=0/1016, 11-13=-303/116, 10-11=-143/118
WEBS 4-15=-745/90, 5-15=-5/800, 6-13=-815/28, 7-13=-41/176, 8-13=0/1328, 8-12=-1723/90, 9-12=-459/63, 9-11=0/199, 6-14=0/554, 5-14=-442/9, 3-17=0/197, 4-16=0/485, 3-16=-427/51

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 2-9-3,
Zone1 2-9-3 to 17-0-10, Zone2 17-0-10 to 23-1-1, Zone1
23-1-1 to 25-7-6, Zone2 25-7-6 to 31-7-12, Zone1
31-7-12 to 42-8-0 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) 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 38 lb uplift at joint
2 and 5 lb uplift at joint 10.
- 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:

January 6,2025

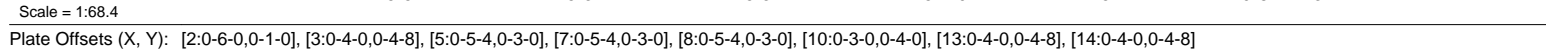
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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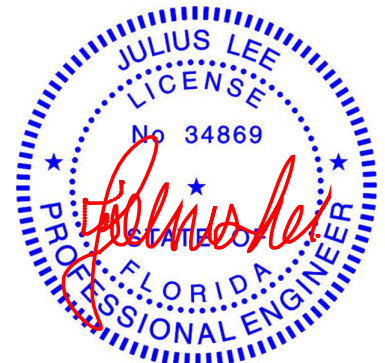
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ID:NNYx8SdMxK2jGRPntqo5XOy5A?d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f



LUMBER		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.		LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 5-7=-60, 7-8=-60, 8-9=-60, 10-17=-20, 1-5=-60 Concentrated Loads (lb) Vert: 13=-248 (B), 6=68 (B), 20=68 (B), 21=68 (B), 22=68 (B), 23=68 (B), 24=-129 (B), 27=-374 (B), 28=-248 (B), 29=-236 (B), 30=-236 (B), 31=-236 (B), 32=-248 (B), 33=-248 (B), 34=-248 (B), 36=-248 (B), 37=-47 (B), 38=-221 (B), 39=-221 (B), 40=-201 (B)
TOP CHORD	2x6 SP No.2			
BOT CHORD	2x6 SP No.2			
WEBS	2x4 SP No.2			
BRACING		3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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 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) Provide adequate drainage to prevent water ponding. 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, with BCDL = 10.0psf. 9) Bearings are assumed to be: Joint 2 SP No.2 10) Refer to girder(s) for truss to truss connections. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1491 lb uplift at joint 10 and 837 lb uplift at joint 2. 12) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 7-0-6 from the left end to connect truss(es) to back face of bottom chord. 13) Fill all nail holes where hanger is in contact with lumber. 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines. 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 251 lb down and 6 lb up at 7-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.		
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 9-10, 8-10			
REACTIONS				
	(size) 2=0-4-0, 10= Mechanical			
	Max Horiz 2=283 (LC 7)			
	Max Uplift 2=-837 (LC 8), 10=-1491 (LC 8)			
	Max Grav 2=3267 (LC 13), 10=3798 (LC 13)			
FORCES				
	(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	5-6=-2863/1162, 6-7=-2863/1162, 7-8=-2222/942, 8-9=-98/87, 9-10=-144/74, 1-2=0/45, 2-4=-5833/1561, 4-5=-3783/1379			
BOT CHORD	2-16=-1411/5080, 15-16=-1411/5075, 12-15=-1375/4330, 11-12=-651/1576, 10-11=-653/1582			
WEBS	3-16=-12/496, 3-15=-876/75, 4-15=-299/1489, 4-14=-1682/372, 5-14=-762/2241, 5-13=-691/99, 6-13=-840/0, 7-13=-730/2106, 7-12=-952/242, 8-12=-629/1627, 8-11=-198/430, 8-10=-3693/1428			
NOTES				
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:				
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.				

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



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

January 6, 2025



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

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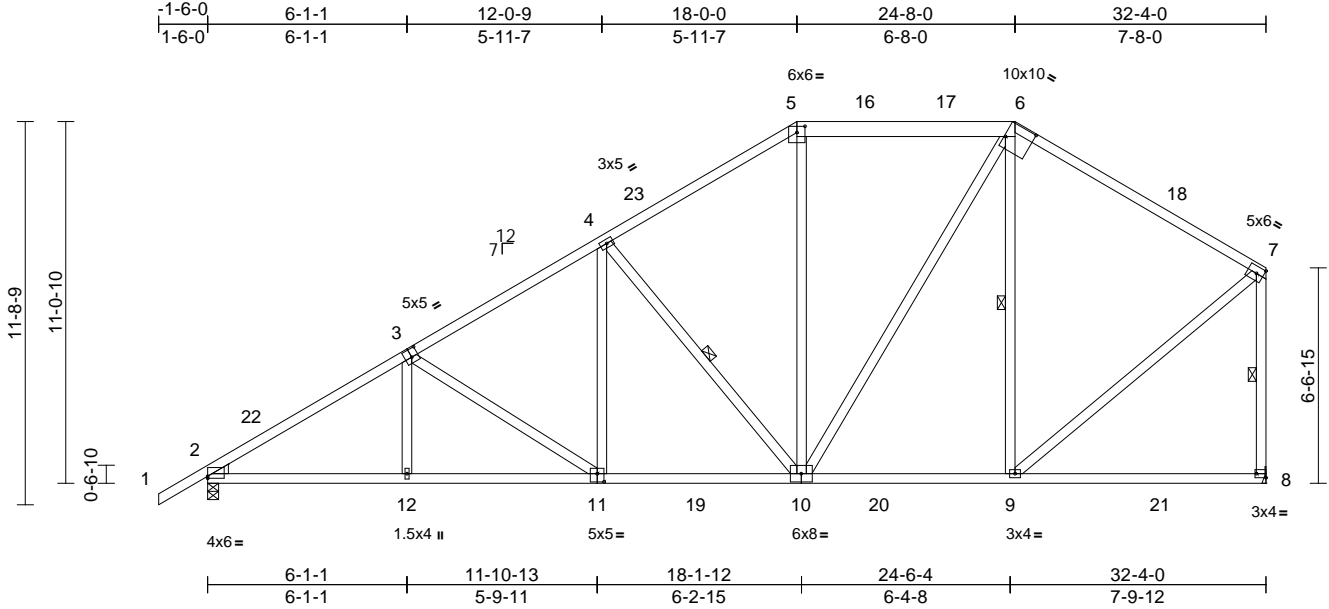
Job	Truss	Truss Type	Qty	Ply	Revis	T35960430
1224-061	B02	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:34

Page: 1

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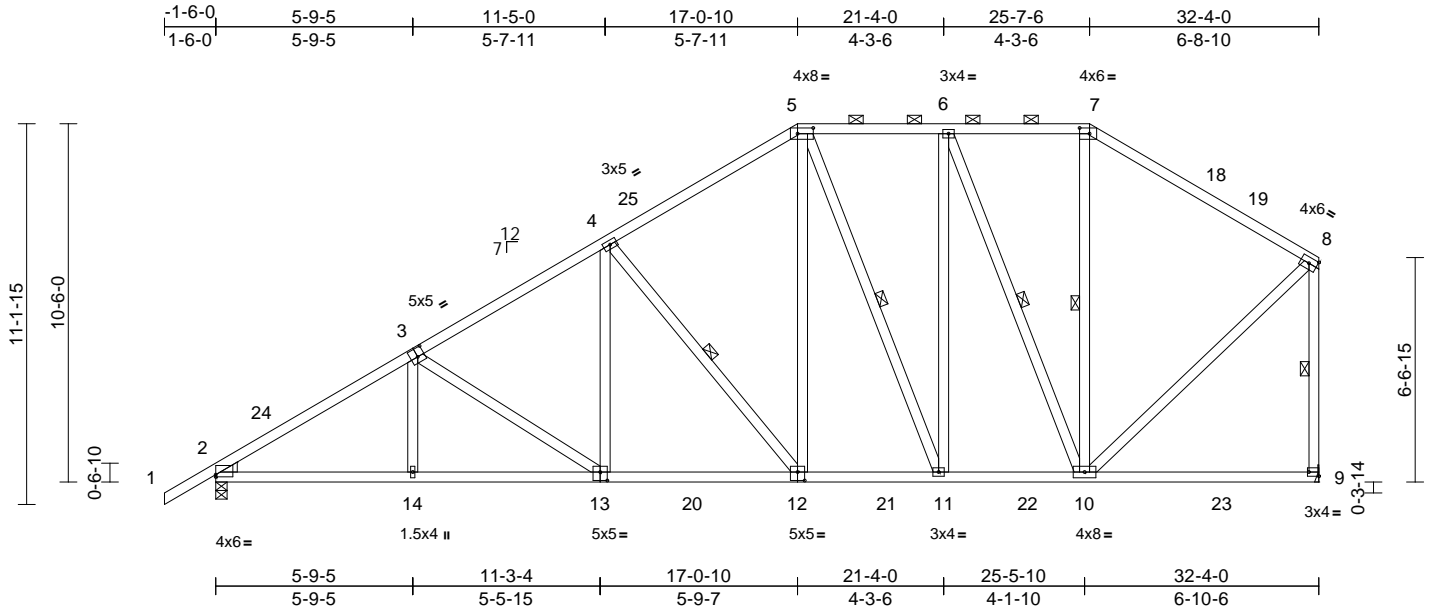
Job	Truss	Truss Type	Qty	Ply	Revis	T35960431
1224-061	B03	Piggyback Base	6	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:34

Page: 1

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Scale = 1:67.5

Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-2-8,0-3-0], [5:0-5-8,0-2-0], [7:0-3-8,0-2-0], [9:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.11	12-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.21	12-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.06	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 241 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.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-8-4 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 6-10, 7-10, 8-9, 5-11

REACTIONS (size) 2=0-4-0, 9= Mechanical
Max Horiz 2=268 (LC 11)
Max Uplift 2=-33 (LC 12)
Max Grav 2=1569 (LC 17), 9=1487 (LC 17)

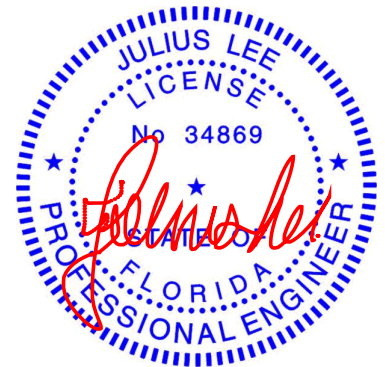
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1060/172, 6-7=-815/170, 7-8=-1010/155, 8-9=-1344/112, 1-2=0/45, 2-4=-2373/123, 4-5=-1465/167
BOT CHORD 2-14=-302/2085, 11-14=-248/2082, 10-11=-133/1113, 9-10=-74/97
WEBS 4-12=-737/89, 5-12=-3/793, 6-10=-753/54, 7-10=-12/252, 8-10=-63/1084, 6-11=-5/497, 5-11=-379/40, 3-14=0/195, 4-13=0/480, 3-13=-416/54

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-13,
Zone1 1-8-13 to 17-0-10, Zone2 17-0-10 to 21-4-0,
Zone1 21-4-0 to 25-7-6, Zone2 25-7-6 to 30-2-3, Zone1
30-2-3 to 32-2-4 zone; cantilever left and right exposed ;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 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) Bearings are assumed to be: Joint 2 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 33 lb uplift at joint
2.
- 10) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 11) 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:

January 6,2025

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

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

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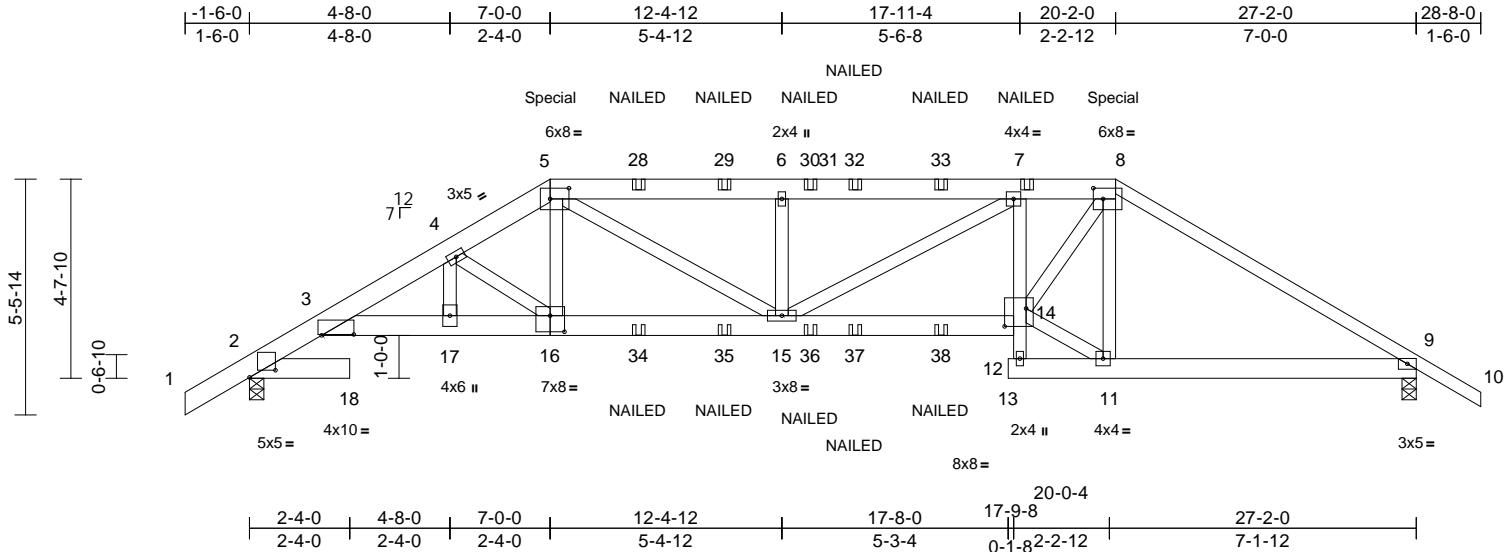
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Revis	T35960432
1224-061	C01	Hip Girder	1	2	Job Reference (optional)	

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

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Page: 1



Scale = 1:53.6

Plate Offsets (X, Y): [2:0-7-4,0-2-0], [3:0-9-0,0-0-4], [5:0-5-4,0-3-0], [8:0-2-12,0-3-0], [14:0-6-0,0-5-0], [16:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.15	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.30	18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.20	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 369 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* 5-8:2x6 SP No.2, 8-10:2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 3-16:2x6 SP 2400F 2.0E, 7-12:2x4 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-14

REACTIONS

(size)	2=0-4-0, 9=0-4-0
Max Horiz	2=-86 (LC 6)
Max Uplift	9=-98 (LC 8)
Max Grav	2=2353 (LC 1), 9=2331 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-1414/24, 3-4=-6179/0, 4-5=-5143/0, 5-6=-5665/20, 6-7=-5665/20, 7-8=-5495/130, 8-9=-3862/139, 9-10=0/45
BOT CHORD	2-18=0/481, 3-17=0/5889, 15-17=0/5541, 14-15=-5/5585, 12-14=-19/116, 7-14=-672/82, 12-13=0/0, 11-12=-22/231, 9-11=-16/3238
WEBS	5-16=0/1465, 5-15=-125/1537, 6-15=-734/179, 7-15=0/180, 11-14=0/3492, 8-14=0/3804, 8-11=-1476/0, 4-17=0/823, 4-16=-1455/0

NOTES

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 9.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down and 74 lb up at 7-0-0, and 270 lb down and 12 lb up at 20-2-0 on top chord, and 498 lb down at 7-0-0, and 86 lb down at 17-8-0, and 393 lb down and 108 lb up at 20-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-5=-60, 5-8=-60, 8-10=-60, 18-19=-20, 14-22=-20, 12-13=-20, 12-25=-20

Concentrated Loads (lb)

Vert: 5=-110 (F), 8=-200 (F), 16=-489 (F), 7=-128 (F), 11=-386 (F), 14=-60 (F), 28=-110 (F), 29=-110 (F), 30=-110 (F), 32=-110 (F), 33=-110 (F), 34=-77 (F), 35=-77 (F), 36=-77 (F), 37=-77 (F), 38=-77 (F)



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

January 6, 2025

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

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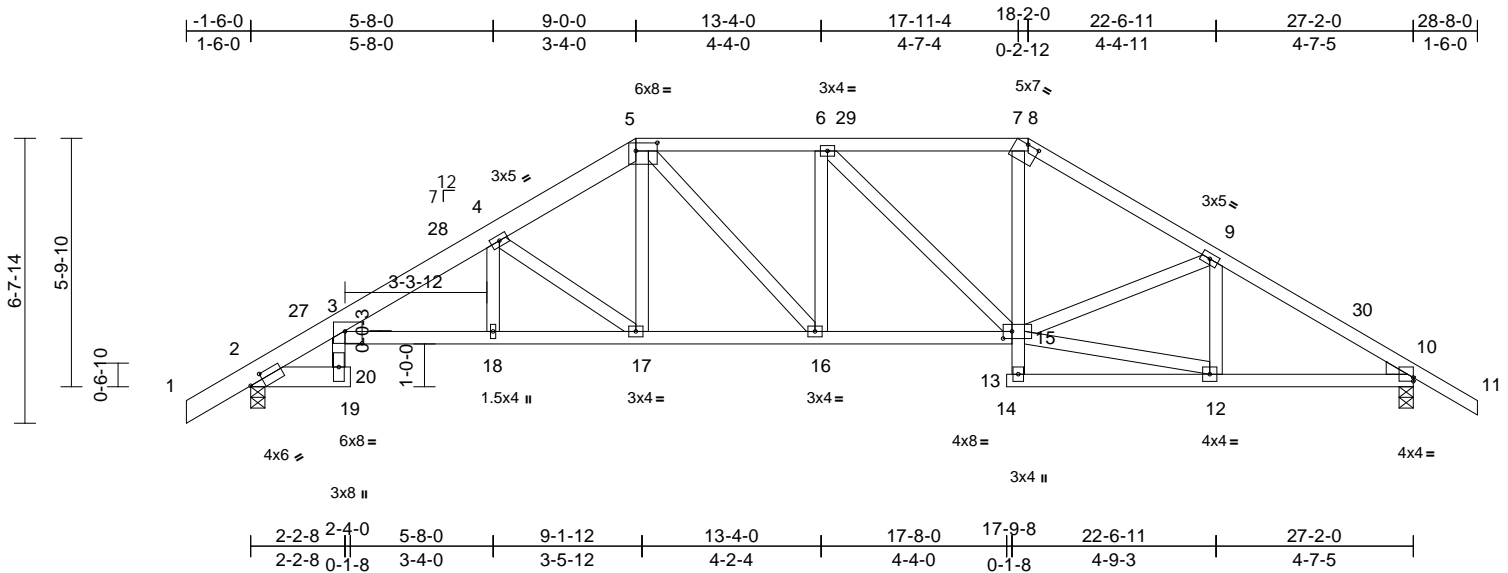
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Revis	T35960433
1224-061	C02	Hip	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:53.8

Plate Offsets (X, Y): [2:0-3-11,0-1-11], [3:0-4-12,0-3-6], [5:0-6-0,0-2-4], [8:0-3-8,0-0-0], [10:Edge,0-1-1], [15:0-2-8,0-2-0]

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	0.66	Vert(LL)	-0.17	3-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.35	3-18	>941	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 170 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 1-5:2x6 SP 2400F

BOT CHORD 2x4 SP No.2 *Except* 2-19:2x6 SP No.2,

3-15:2x4 SP No.1

WEBS 2x4 SP No.2

WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 13-15

RE ACTIONS (size) 2=0-4-0, 10=0-4-0

Max Horiz 2=-107 (LC 10)

Max Uplift 2=-30 (LC 12), 10=-33 (LC 12)

Max Grav 2=1186 (LC 1), 10=1181 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-771/50, 3-4=-2292/53,

4-5=-1787/76, 5-6=-1663/89, 6-7=-1468/89,

7-8=-1440/91, 8-9=-1727/78, 9-10=-1719/59,

10-11=0/45

BOT CHORD 2-20=0/325, 19-20=0/0, 3-20=0/1453,

3-18=0/2149, 17-18=0/2150, 16-17=0/1453,

15-16=0/1663, 13-15=0/115, 7-15=0/560,

13-14=0/0, 12-13=0/146, 10-12=-22/1408

WEBS 5-17=0/545, 6-16=-170/66, 6-15=-359/10,

5-16=-13/381, 4-18=0/138, 4-17=-873/46,

9-12=-241/57, 12-15=0/1291, 9-15=-41/142

NOTES

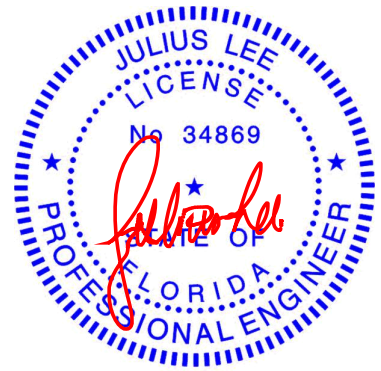
1) Unbalanced roof live loads have been considered for

this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-4-0, Zone1
13-4-0 to 18-2-0, Zone2 18-2-0 to 22-6-11, Zone1
22-6-11 to 28-8-0 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) 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.
- 7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 10
SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 30 lb uplift at joint
2 and 33 lb uplift at joint 10.
- 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:

January 6,2025

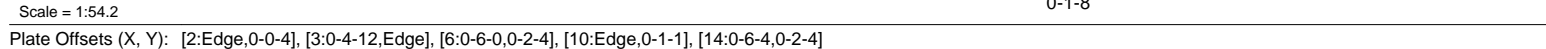
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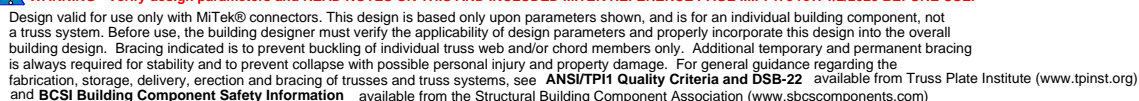


LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2 *Except* 1-6:2x6 SP 2400F 2.0E	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 16-2-0, Zone2 16-2-0 to 20-4-15, Zone1 20-4-15 to 27-2-0 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
BOT CHORD	2x4 SP No.2 *Except* 3-14:2x4 SP No.1	
WEBS	2x4 SP No.2	
WEDGE	Right: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 12-14	
REACTIONS	(size) 2=0-4-0, 10=0-4-0 Max Horiz 2=123 (LC 11) Max Uplift 2=-31 (LC 12) Max Grav 2=1189 (LC 1), 10=1088 (LC 1)	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. 7) All bearings are assumed to be SP No.2 . 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 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.
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-656/31, 3-4=-2574/68, 4-5=-2167/84, 5-6=-1525/102, 6-7=-1278/107, 7-8=-1487/113, 8-9=-1734/96, 9-10=-1744/71	
BOT CHORD	2-20=-1/278, 19-20=0/0, 3-20=0/208, 3-18=-16/2505, 17-18=-15/2506, 16-17=0/1799, 15-16=0/1280, 14-15=0/1434, 12-14=0/112, 8-14=0/334, 12-13=0/0, 11-12=0/161, 10-11=-57/1436	
WEBS	6-16=0/470, 6-15=-124/115, 7-15=-3/529, 8-15=-445/63, 9-14=-56/94, 4-17=-877/18, 4-18=-30/24, 5-17=0/555, 5-16=-635/62, 9-11=-253/61, 11-14=-28/1308	
		LOAD CASE(S) Standard

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

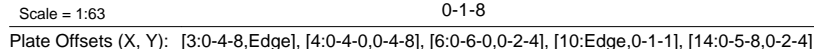


January 6, 2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:35 Page: 1
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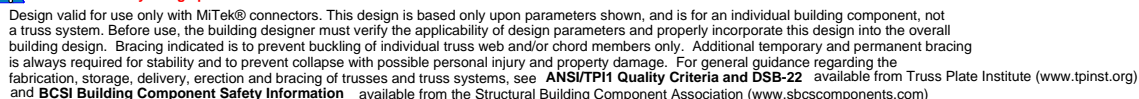


LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; I=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone3 13-0-0 to 14-2-0, Zone2 14-2-0 to 18-4-15, Zone1 18-4-15 to 27-2-0 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
TOP CHORD	2x4 SP No.2 *Except* 4-6:2x6 SP No.2, 1-4:2x6 SP No200F 2.0E	
BOT CHORD	2x4 SP No.2 *Except* 3-14:2x4 SP No.1	
WEBS	2x4 SP No.2	
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 12-14	
REACTIONS	(size) 2=0-4-0, 10= Mechanical Max Horiz 2=144 (LC 11) Max Uplift 2=-31 (LC 12) Max Grav 2=1189 (LC 1), 10=1088 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	6-7=-1092/109, 7-8=-1319/109, 8-9=-1744/81, 9-10=-1743/60, 1-2=0/45, 2-3=-737/28, 3-5=-2296/77, 5-6=-1299/105	
BOT CHORD	2-20=-1/363, 19-20=0/0, 3-20=0/386, 3-18=0/2151, 17-18=0/2151, 16-17=0/1446, 15-16=0/1080, 14-15=0/1456, 12-14=0/111, 8-14=0/394, 12-13=0/0, 11-12=0/133, 10-11=-57/1434	
WEBS	6-16=-24/447, 6-15=-60/184, 7-15=-16/481, 8-15=-578/63, 9-14=-49/81, 9-11=-257/54, 11-14=-8/1334, 5-16=-588/64, 4-18=0/143, 5-17=0/508, 4-17=-841/33	
		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. 7) Bearings are assumed to be: Joint 2 SP No.2 . 8) Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2. 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
		LOAD CASE(S) Standard

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



January 6, 2025



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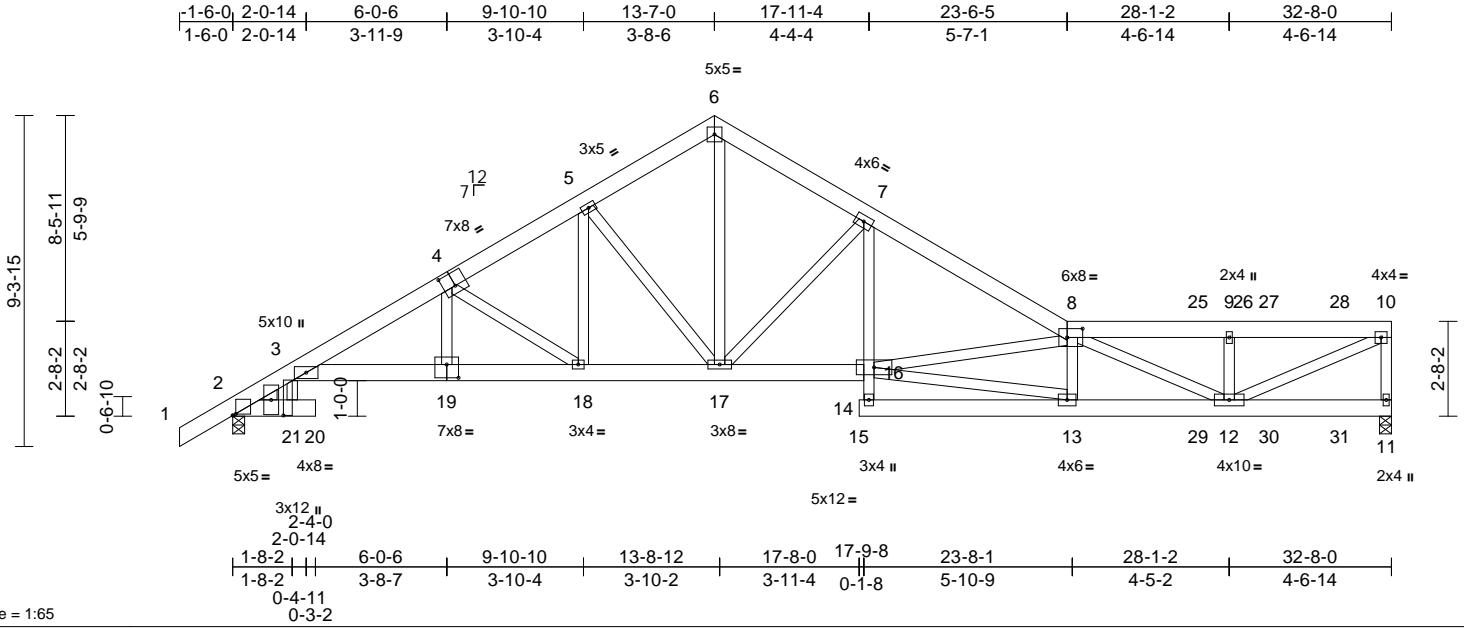
Job	Truss	Truss Type	Qty	Ply	Revis	T35960436
1224-061	C05	Roof Special Girder	1	2	Job Reference (optional)	

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

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Mon Jan 06 11:37:24

Page: 1

ID:7YLzmcwOi13oh2iQoPiSy59iH-XgMh?fpnX3rEBaOUAlAw25E3XQnJA50x?Y7YxwzyGRw



Scale = 1:65

Plate Offsets (X, Y): [2:0-1-0,0-0-8], [3:0-8-11,0-0-12], [4:0-4-0,0-4-8], [8:0-5-4,0-3-0], [19:0-4-0,0-4-8], [21:Edge,1-5-2]

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	0.42	Vert(LL)	-0.13	15	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.26	15	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.13	11	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 515 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 1-4:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2 *Except* 7-14:2x4 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-21.
 10-0-0 oc bracing: 14-16

REACTIONS (lb/size) 2=1478/0-4-0, 11=1665/0-4-0
 Max Horiz 2=131 (LC 7)
 Max Uplift 2=-6 (LC 8)

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

TOP CHORD 6-7=-1999/25, 7-8=-3069/0, 8-25=-3029/0, 9-25=-3029/0, 9-26=-3029/0, 26-27=-3029/0, 27-28=-3029/0, 10-28=-3029/0, 2-3=-1158/0, 3-4=-3160/0, 4-5=-2382/0, 5-6=-1916/26
 BOT CHORD 2-21=-72/421, 3-19=0/2803, 18-19=0/2783, 17-18=0/1973, 16-17=0/2627, 7-16=0/1214, 13-14=0/563, 13-29=0/4478, 12-29=0/4478
 WEBS 10-11=-1637/0, 8-13=-664/45, 9-12=-371/50, 8-12=-1612/0, 10-12=0/3388, 4-19=0/433, 5-18=0/521, 6-17=0/1659, 5-17=-549/43, 7-17=-1398/0, 4-18=-993/20, 13-16=0/4021, 8-16=-1953/0, 3-21=0/1158

NOTES

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down at 27-2-12, and 41 lb down and 25 lb up at 29-2-12, and 41 lb down and 25 lb up at 31-2-12 on top chord, and 348 lb down at 27-2-12, and 9 lb down at 29-2-12, and 9 lb down at 31-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)

Vert: 6-8=-60, 8-10=-60, 20-22=-20, 3-16=-20, 14-15=-20, 11-14=-20, 1-6=-60
 Concentrated Loads (lb)
 Vert: 25=-77 (F), 27=-2 (F), 28=-2 (F), 29=-348 (F), 30=-2 (F), 31=-2 (F)



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

January 6, 2025

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

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

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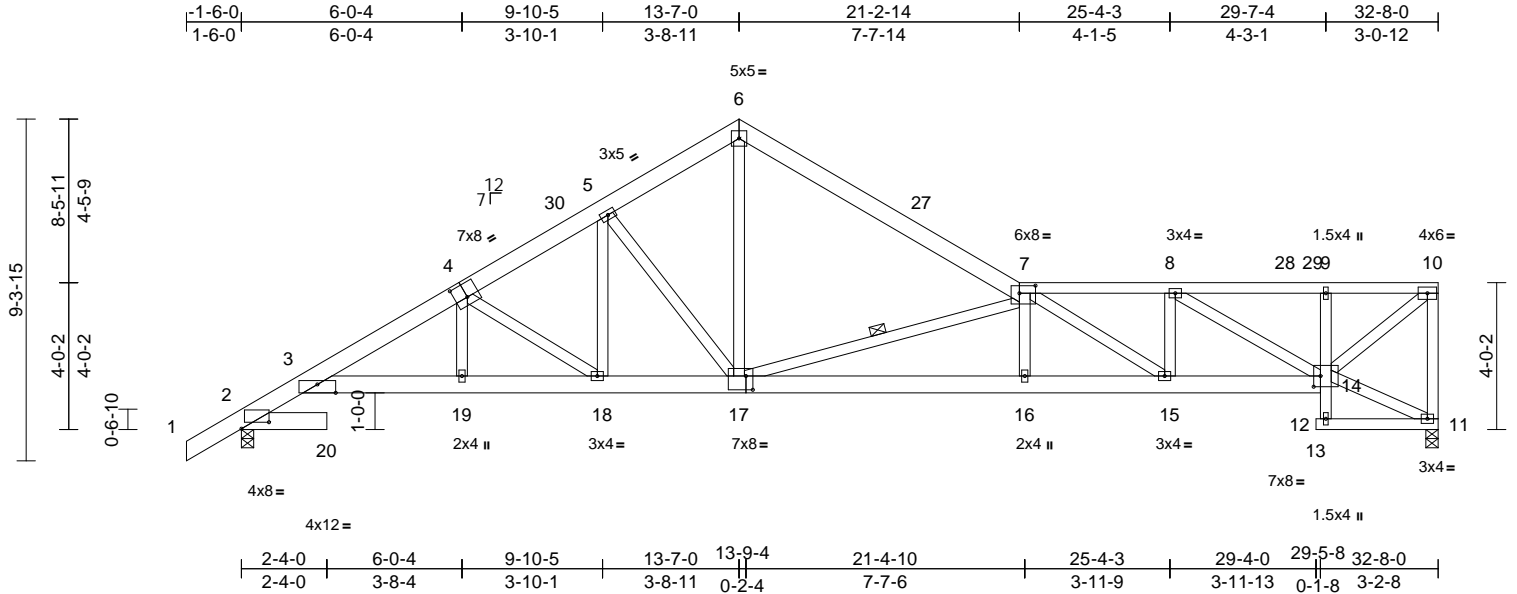
Job	Truss	Truss Type	Qty	Ply	Revis	T35960437
1224-061	C06	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:36

Page: 1

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Scale = 1:62.9

Plate Offsets (X, Y): [2:0-9-0,0-2-2], [3:0-6-0,Edge], [4:0-4-0,0-4-8], [7:0-5-4,0-2-8], [14:0-2-4,0-3-8], [17:0-2-4,0-4-8]

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	0.72	Vert(LL)	-0.21	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.45	16-17	>872	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.27	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 240 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-7:2x6 SP No.2, 7-10:2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* 3-17:2x6 SP 2400F 2.0E, 9-12,13-11:2x4 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. Except: 10-0-0 oc bracing: 12-14
 WEBS 1 Row at midpt 7-17

REACTIONS

(size) 2=0-4-0, 11=0-4-0
 Max Horiz 2=199 (LC 11)
 Max Uplift 2=28 (LC 12)
 Max Grav 2=1406 (LC 1), 11=1304 (LC 1)

FORCES

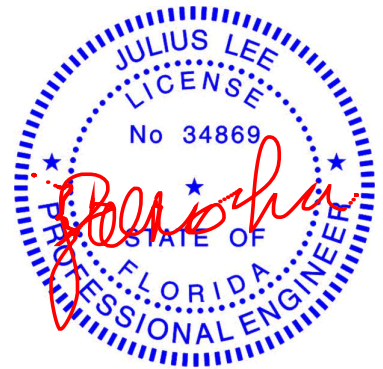
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 6-7=-1840/115, 7-8=-2777/74, 8-9=-1353/54, 9-10=-1314/52, 10-11=-1258/70, 1-2=0/45, 2-3=-803/74, 3-5=-2988/127, 5-6=-1775/123, 2-20=-41/309, 3-19=-264/2924, 18-19=-230/2645, 16-18=-171/3628, 15-16=-167/3632, 14-15=-138/2777, 12-14=0/70, 9-14=-226/68, 12-13=0/0, 11-12=-6/53
 WEBS 7-16=0/221, 8-14=-1675/47, 11-14=-95/70, 10-14=-82/1755, 4-19=0/471, 4-18=-997/94, 5-18=-14/486, 5-17=-495/75, 6-17=-2/1304, 7-17=-2215/92, 8-15=0/630, 7-15=-1015/33

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2, Zone1 1-8-2 to 13-7-0, Zone2 13-7-0 to 18-2-7, Zone1 18-2-7 to 32-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

January 6,2025

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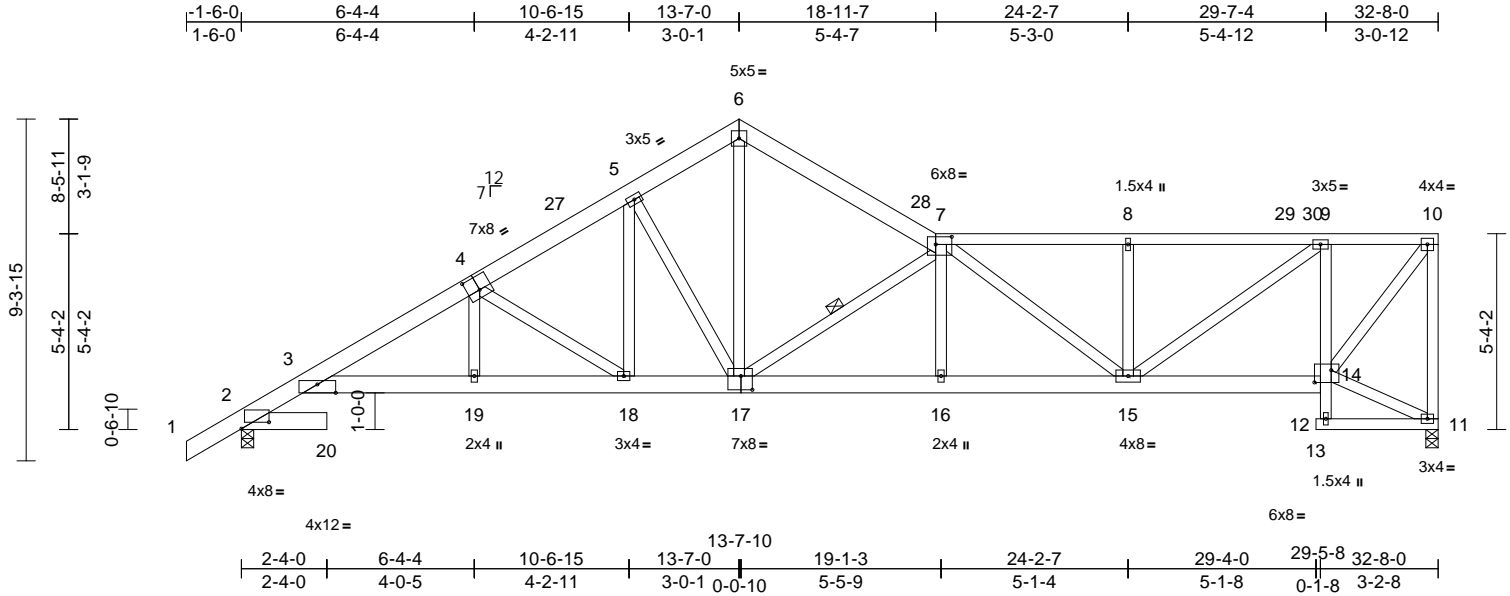
Job	Truss	Truss Type	Qty	Ply	Revis	T35960438
1224-061	C07	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:36

Page: 1

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Plate Offsets (X, Y): [2:0-9-0,0-2-2], [3:0-6-0,Edge], [4:0-4-0,0-4-8], [7:0-5-4,0-2-8], [14:0-5-8,0-4-0], [17:0-3-12,0-4-8]												
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	0.72	Vert(LL)	-0.18	20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.36	20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.23	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 251 lb	FT = 20%

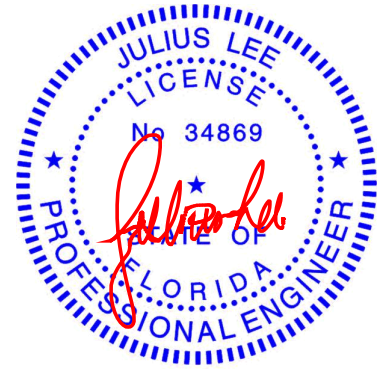
LUMBER	
TOP CHORD	2x6 SP No.2 *Except* 7-10:2x4 SP No.2, 1-4:2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP No.2 *Except* 3-17:2x6 SP 2400F 2.0E, 9-12,13-11:2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 12-14
WEBS	1 Row at midpt 7-17
REACTIONS (size) 2=0-4-0, 11=0-4-0	
Max Horiz 2=215 (LC 11)	
Max Uplift 2=27 (LC 12)	
Max Grav 2=1406 (LC 1), 11=1304 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-803/84, 3-5=-2909/145, 5-6=-1740/123, 6-7=-1804/119, 7-8=-2068/85, 8-9=-2068/85, 9-10=-956/61, 10-11=-1265/83
BOT CHORD	2-20=-56/309, 3-19=-338/2896, 18-19=-290/2565, 16-18=-198/2602, 15-16=-184/2605, 14-15=-113/990, 12-14=0/70, 9-14=-1059/107, 12-13=0/0, 11-12=-11/25
WEBS	7-16=0/192, 7-15=-673/48, 8-15=-338/71, 9-15=-43/1344, 11-14=-104/103, 10-14=-97/1527, 6-17=-40/1393, 7-17=-1362/79, 5-18=-11/480, 5-17=-491/79, 4-19=0/466, 4-18=-984/111

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2, Zone1 1-8-2 to 13-7-0, Zone2 13-7-0 to 18-2-7, Zone1 18-2-7 to 32-6-4 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.
- 7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 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:

January 6,2025

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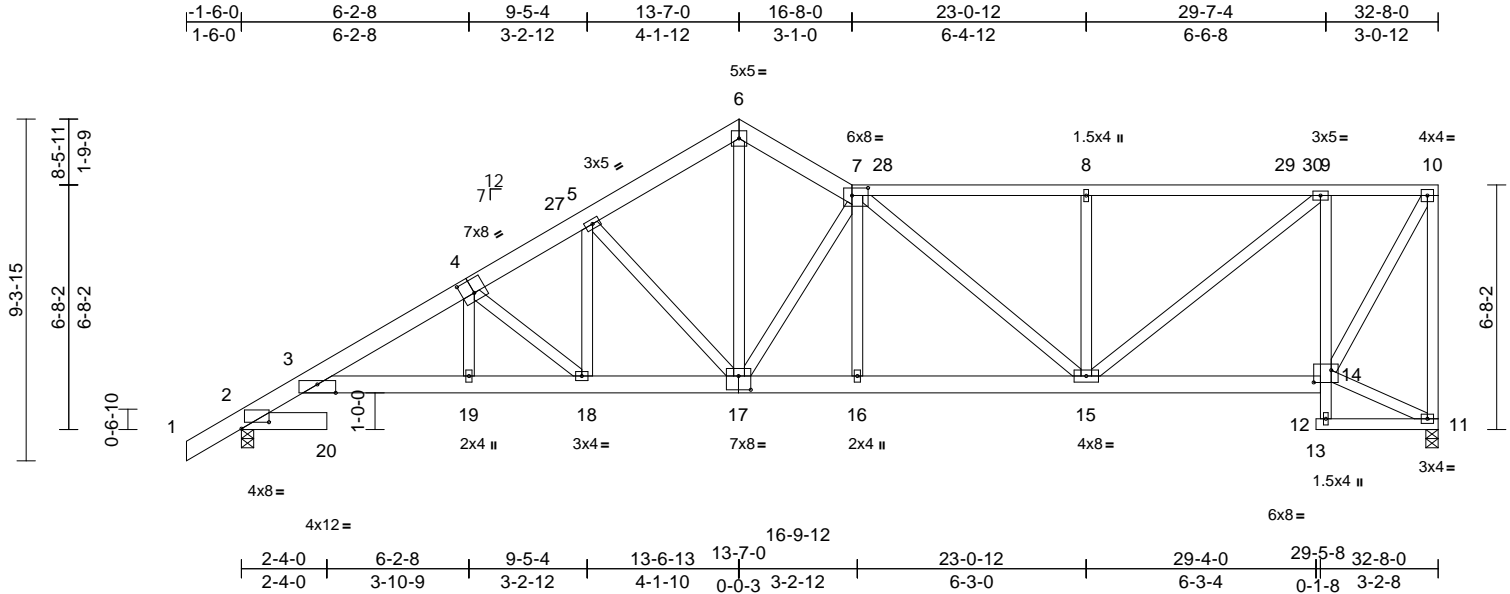
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960439
1224-061	C08	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:36
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Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-9-0,0-2-2], [3:0-6-0,Edge], [4:0-4-0,0-4-8], [7:0-5-4,0-2-8], [14:0-5-12,0-4-0], [17:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.17	20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.36	20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 259 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 7-10:2x4 SP No.2,
1-4:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* 3-17:2x6 SP 2400F
2.0E, 9-12,13-11:2x4 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. Except:
10-0-0 oc bracing: 12-14

REACTIONS

(size) 2=0-4-0, 11=0-4-0
Max Horiz 2=232 (LC 11)
Max Uplift 2=26 (LC 12)
Max Grav 2=1406 (LC 1), 11=1304 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/45, 2-3=-803/84, 3-5=-2942/161,
5-6=-1767/112, 6-7=-1742/118, 7-8=-1700/94,
8-9=-1700/94, 9-10=-710/77, 10-11=-1267/91

BOT CHORD

2-20=-68/309, 3-19=-405/2907,
18-19=-350/2594, 16-18=-263/2009,
15-16=-208/2011, 14-15=-120/736,
12-14=-9/70, 9-14=-1089/133, 12-13=0/0,
11-12=-24/24

WEBS

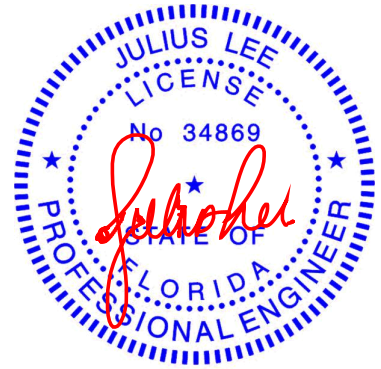
7-16=0/169, 7-15=-404/60, 8-15=-421/91,
9-15=-57/1245, 11-14=-126/139,
10-14=-108/1402, 6-17=-47/1431,
7-17=-1021/66, 5-17=-578/88, 4-19=-16/487,
4-18=-928/114, 5-18=-9/539

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2,
Zone1 1-8-2 to 13-7-0, Zone3 13-7-0 to 16-8-0, Zone1
16-8-0 to 32-6-4 zone; cantilever left and right exposed ;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 11
SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 26 lb uplift at joint
2.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

January 6,2025

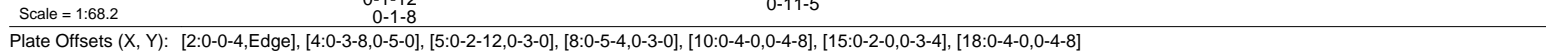
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Mon Jan 06 08:32:57 Page: 1
ID:ie66Atgk?qOn9oofmey3ZPy59Wa-4xlZlYDgxtOmgqJLMJbip?8Prq1aDGLnCz4WoNzy8bq



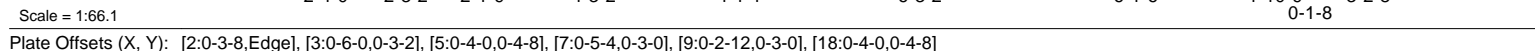
LUMBER		1) Attached 9-0-0 scab 1 to 5, front face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-10-13 from end at joint 1, nail 2 row(s) at 2" o.c. for 4-4-10; starting at 6-10-10 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0. 2) Unbalanced roof live loads have been considered for this design. 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C 32-6-4 to 32-6-4 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 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) 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, with BCDL = 10.0psf. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 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.
TOP CHORD	2x6 SP No.2 *Except* 4-5:2x4 SP No.2	
BOT CHORD	2x6 SP No.2 *Except* 10-13,14-12:2x4 SP No.2	
WEBS	2x4 SP No.2	
LBR SCAB	1-5 SP 2400F 2.0E one side	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	
BOT CHORD	Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 13-15	
WEBS	1 Row at midpt 11-12, 8-16, 9-15	
REACTIONS	(lb/size) 2=1398/0-4-0, 12=1304/0-4-0	
	Max Horiz 2=247 (LC 11)	
	Max Uplift 2=-29 (LC 12)	
	Max Grav 2=1573 (LC 17), 12=1480 (LC 17)	
FORCES		
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-2164/5, 3-4=-1292/52, 4-26=-3305/79, 5-26=-3229/100, 5-27=-2557/66, 6-27=-2478/88, 6-7=-2028/102, 7-8=-1796/114, 8-28=-1706/104, 9-28=-1706/104, 9-29=-661/99, 29-30=-661/99, 10-30=-661/99, 10-11=-647/99, 11-12=-1436/90	
BOT CHORD	2-22=-244/1656, 4-20=-402/3201, 19-20=-400/3205, 18-19=-296/2156, 17-18=-238/1880, 17-31=-237/1883, 16-31=-237/1883, 16-32=-182/1742, 15-32=-182/1742, 10-15=-345/120	
WEBS	9-16=0/489, 9-15=-1421/82, 11-15=-120/1537, 6-18=-589/93, 6-19=-177/18, 7-18=-68/1290, 8-18=-685/38, 5-19=-1248/123, 4-22=-159/1227, 3-22=-1925/283	
LOAD CASE(S)		Standard

January 6, 2025

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:36 Page: 1
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LUMBER	
TOP CHORD	2x6 SP No.2 *Except* 9-11:2x4 SP No.2, 1-5:2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2 *Except* 3-18:2x6 SP 2400F 2.0E, 18-15:2x6 SP No.2
WEBS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied. Except: 4-5-0 oc bracing: 13-15
WEBS	1 Row at midpt 7-17, 11-12
REACTIONS (size) 2=0-4-0, 12=0-4-0	
	Max Horiz 2=245 (LC 11)
	Max Uplift 2=-26 (LC 12)
	Max Grav 2=1584 (LC 17), 12=1467 (LC 17)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-1011/87, 3-4=-3982/163, 4-6=-3133/119, 6-7=-1865/122, 7-8=-1420/130, 8-9=-1422/131, 9-10=-968/125, 10-11=-685/134, 11-12=-1475/82
BOT CHORD	2-22=-78/442, 3-21=-382/3583, 20-21=-382/3583, 19-20=-290/2760, 17-19=-226/2076, 16-17=-113/833, 15-16=-100/566, 13-15=-986/102, 10-15=-1155/141, 13-14=0/0, 12-13=-87/97
WEBS	7-18=-13/847, 7-17=-247/35, 8-17=-436/98, 9-17=-56/1023, 9-16=-513/63, 10-16=-46/939, 11-13=-84/1224, 4-20=-1054/118, 4-21=-32/519, 5-20=-20/708, 5-19=-838/79, 6-19=0/616, 6-18=-760/96

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2, Zone1 1-8-2 to 15-0-14, Zone2 15-0-14 to 19-8-5, Zone1 19-8-5 to 27-7-2, Zone2 27-7-2 to 32-2-9, Zone1 32-2-9 to 32-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869

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



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

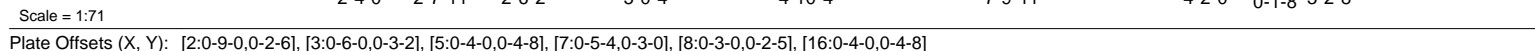
January 6, 2025



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbsccomponents.com)

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:37 Page: 1
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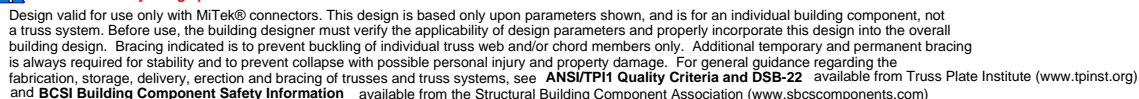


LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x6 SP No.2 *Except* 8-10:2x4 SP No.2, 1-5:2x6 SP 2400F 2.0E	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed;
BOT CHORD	2x6 SP No.2 *Except* 3-16:2x6 SP 2400F 2.0E, 9-12,13-11:2x4 SP No.2	MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2, Zone1 1-8-2 to 17-4-5, Zone2 17-4-5 to 21-11-12, Zone1 21-11-12 to 25-3-11, Zone2 25-3-11 to 29-11-2, Zone1 29-11-2 to 32-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
WEBS	2x4 SP No.2	Lumber DOL=1.60 plate grip DOL=1.60
BRACING		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.
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	4) Provide adequate drainage to prevent water ponding.
BOT CHORD	Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 12-14	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 7-15	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.
REACTIONS	(size) 2=0-4-0, 11=0-4-0	7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
	Max Horiz 2=269 (LC 11)	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2.
	Max Uplift 2=-26 (LC 12)	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.
FORCES		LOAD CASE(S) Standard
TOP CHORD	Max Grav 2=1578 (LC 17), 11=1447 (LC 17)	
	(lb) - Maximum Compression/Maximum Tension	
	1-2=0/45, 2-3=-935/87, 3-4=-3833/138, 4-6=-2958/104, 6-7=-1618/137, 7-8=-931/144, 8-9=-1109/136, 9-10=-727/114, 10-11=-1384/98	
BOT CHORD	2-20=-62/395, 3-19=-353/3434, 18-19=-353/3434, 17-18=-271/2619, 15-17=-208/1903, 14-15=-114/613, 12-14=-6/76, 9-14=-905/112, 12-13=0/0, 11-12=-14/55	
	7-16=0/946, 7-15=-688/54, 8-15=0/268, 9-15=0/660, 4-18=-1025/105, 4-19=-21/488, 5-18=-2/703, 5-17=-869/77, 6-17=0/638, 6-16=-807/98, 11-14=-137/121, 10-14=-102/1152	
WEBS		

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



January 6, 2025



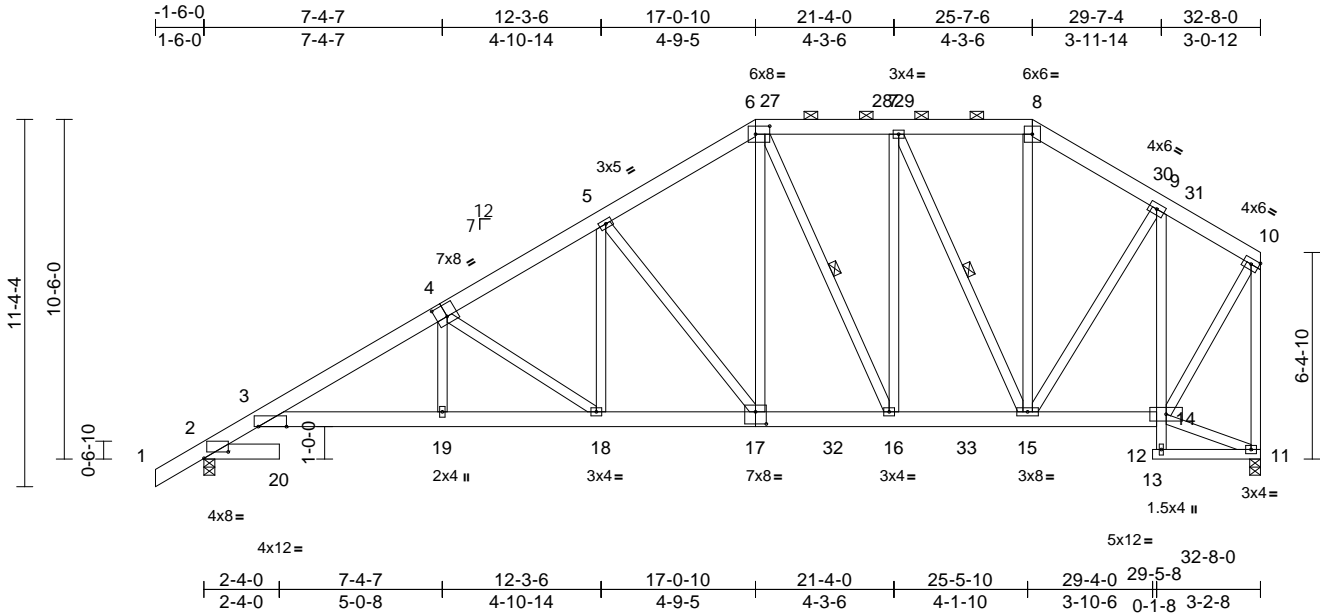
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Job	Truss	Truss Type	Qty	Ply	Revis	T35960443
1224-061	C12	Piggyback Base	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:71.2

Plate Offsets (X, Y): [2:0-9-0,0-2-6], [3:0-10-7,Edge], [4:0-4-0,0-4-8], [6:0-5-4,0-3-0], [17:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.22	20	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.42	20	>933	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.22	11	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 307 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 1-4:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SP No.2 *Except* 3-17:2x6 SP 2400F

2.0E, 9-12,13-11:2x4 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.): 6-8.

BOT CHORD Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 12-14

WEBS 1 Row at midpt 7-15, 6-16

REACTIONS (size) 2=0-4-0, 11=0-4-0

Max Horiz 2=264 (LC 11)

Max Uplift 2=-26 (LC 12)

Max Grav 2=1578 (LC 17), 11=1449 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 6-7=-1215/155, 7-8=-914/151,

8-9=-1091/146, 9-10=-742/121,

10-11=-1392/105, 1-2=0/45, 2-3=-933/90,

3-5=-3111/151, 5-6=-1628/151

BOT CHORD 2-20=-65/394, 3-19=-381/3406,

18-19=-311/2836, 16-18=-218/1906,

15-16=-143/1268, 14-15=-117/622,

12-14=-3/74, 9-14=-871/129, 12-13=0/0,

11-12=-14/36

WEBS 6-17=-26/853, 7-15=-763/54, 8-15=-3/324,

9-15=-8/634, 7-16=0/487, 6-16=-348/37,

11-14=-122/116, 10-14=-113/1153,

5-17=-803/97, 4-19=0/575, 5-18=0/699,

4-18=-1131/112

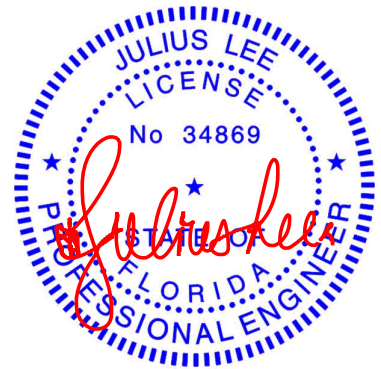
NOTES

1) Unbalanced roof live loads have been considered for

this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-2,
Zone1 1-8-2 to 17-0-10, Zone2 17-0-10 to 21-8-1, Zone1
21-8-1 to 25-7-6, Zone2 25-7-6 to 30-2-13, Zone1
30-2-13 to 32-6-4 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) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11
SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 26 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.
- 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:

January 6,2025

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

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

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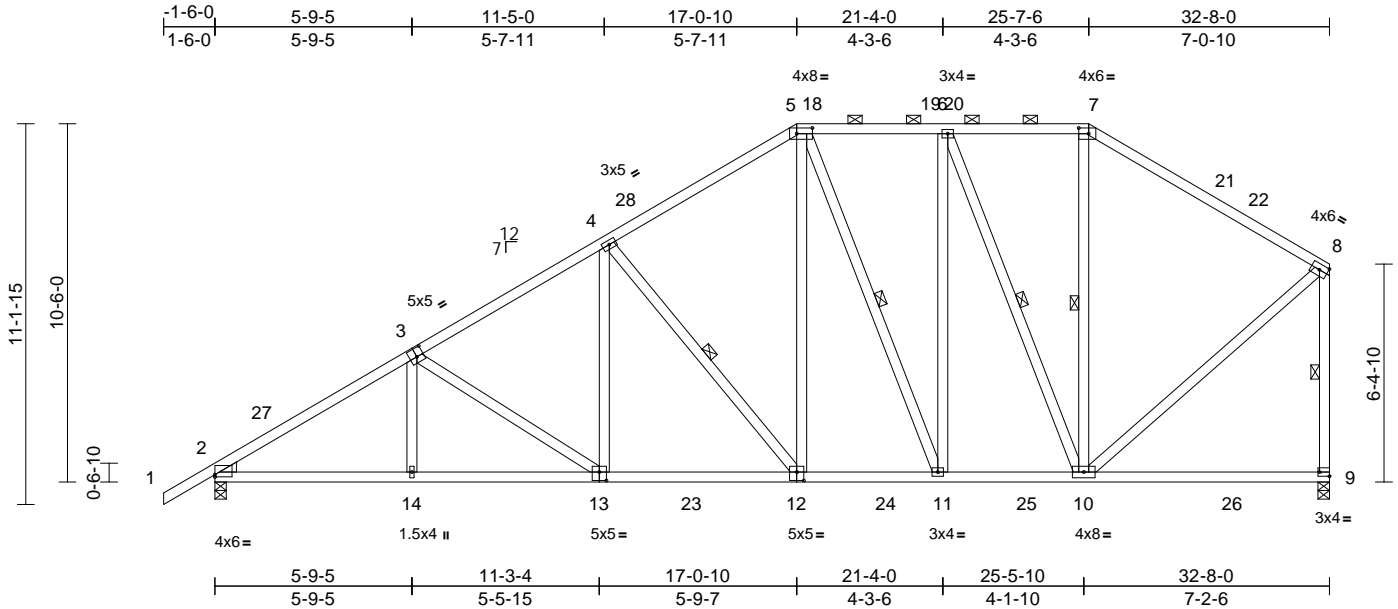
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960444
1224-061	C13	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:37
ID:Y0ldEK7KsOXPC9ulcPpgt?y598l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWRCDoi7J4zJC?f

Page: 1



Scale = 1:67.5

Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-2-8,0-3-0], [5:0-5-8,0-2-0], [7:0-3-8,0-2-0], [9:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.12	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.21	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/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
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-3 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 6-10, 7-10, 8-9, 5-11

REACTIONS (size) 2=0-4-0, 9=0-4-0
Max Horiz 2=266 (LC 11)
Max Uplift 2=-34 (LC 12)
Max Grav 2=1584 (LC 17), 9=1498 (LC 17)

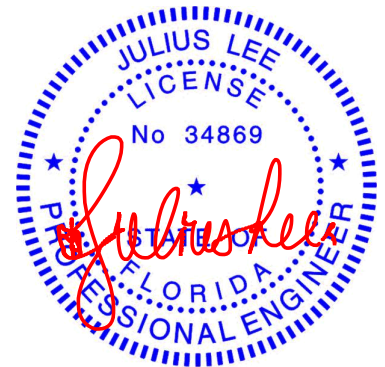
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1091/163, 6-7=-853/163, 7-8=-1057/146, 8-9=-1350/105, 1-2=0/45, 2-4=-2401/112, 4-5=-1494/158
BOT CHORD 2-14=-289/2109, 11-14=-230/2106, 10-11=-123/1144, 9-10=-71/94
WEBS 4-12=-737/83, 5-12=0/794, 6-10=-731/47, 7-10=-7/268, 8-10=-53/1094, 6-11=-1/480, 5-11=-364/34, 3-14=0/194, 4-13=0/479, 3-13=-415/51

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-9-3, Zone1 1-9-3 to 17-0-10, Zone2 17-0-10 to 21-8-1, Zone1 21-8-1 to 25-7-6, Zone2 25-7-6 to 30-2-13, Zone1 30-2-13 to 32-6-4 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 34 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.
- 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 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

January 6,2025

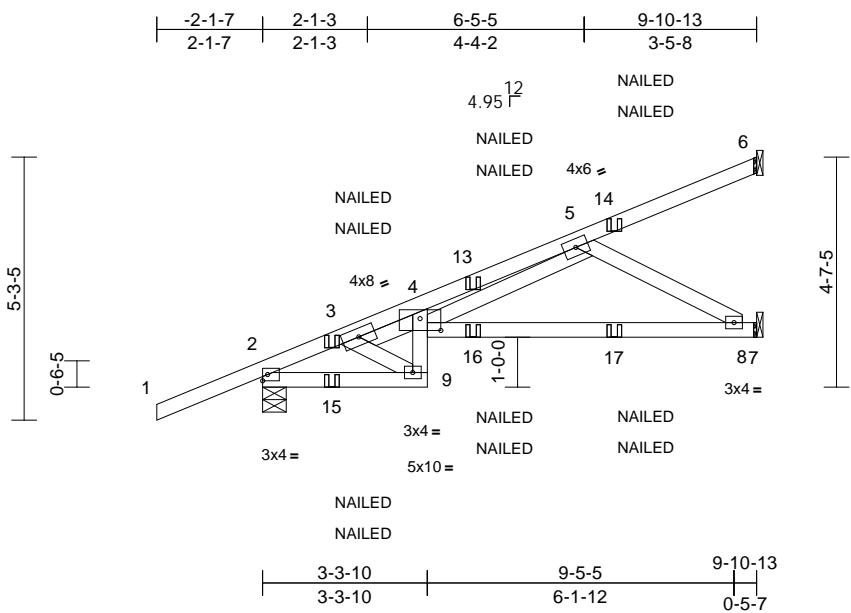
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Job	Truss	Truss Type	Qty	Ply	Revis	T35960445
1224-061	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	



Scale = 1:46.2

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

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	0.92	Vert(LL)	-0.33	4-8	>356	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.63	4-8	>186	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.28	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 51 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except* 4-7:2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-11, 6= Mechanical, 7= Mechanical
Max Horiz 2=129 (LC 8)
Max Uplift 2=-95 (LC 8), 6=-35 (LC 25)
Max Grav 2=502 (LC 1), 6=58 (LC 19), 7=446 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-752/243, 3-4=-236/0, 4-5=-607/36, 5-6=-93/18
BOT CHORD 2-9=-92/648, 4-9=-49/379, 4-8=-80/641, 7-8=0/0
WEBS 3-9=-794/109, 5-8=-726/89

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

5) Bearings are assumed to be: , Joint 2 SP No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 6 and 95 lb uplift at joint 2.
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 9-10=-20, 4-7=-20
Concentrated Loads (lb)
Vert: 3=60 (F=30, B=30), 14=-50 (F=-25, B=-25), 15=59 (F=29, B=29), 16=-47 (F=-23, B=-23), 17=-92 (F=-46, B=-46)

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

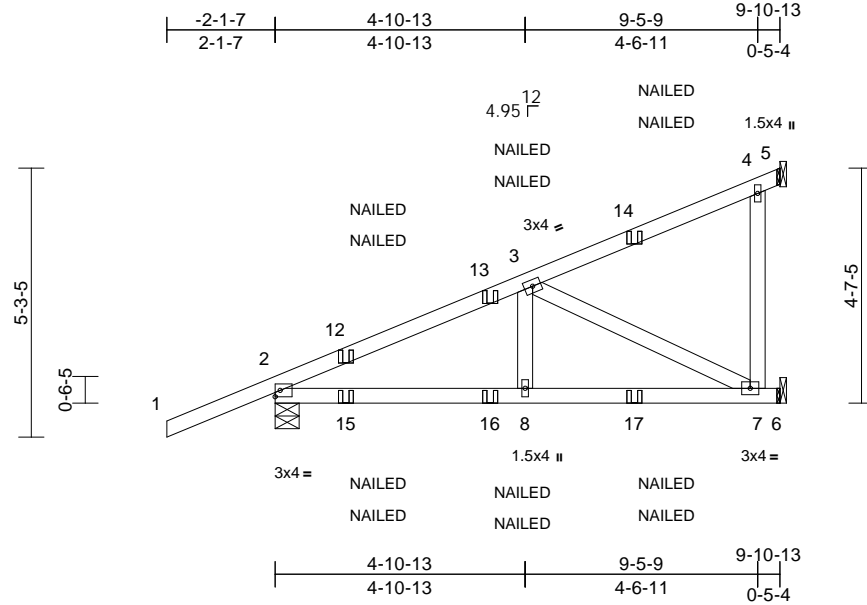
January 6,2025

Job	Truss	Truss Type	Qty	Ply	Revis	T35960446
1224-061	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.11	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-5-11, 5= Mechanical, 6= Mechanical
Max Horiz 2=129 (LC 8)
Max Uplift 2=-108 (LC 8), 6=-119 (LC 8)
Max Grav 2=475 (LC 13), 5=207 (LC 3), 6=358 (LC 13)

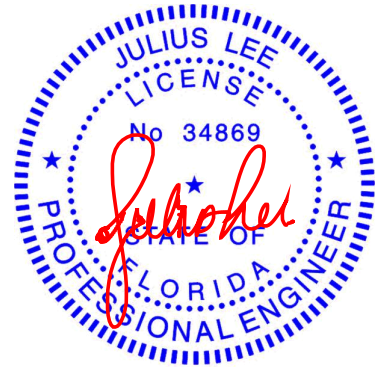
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-664/147, 3-4=-92/43, 4-5=0/79
BOT CHORD 2-8=-79/565, 7-8=-65/565, 6-7=0/0
WEBS 3-8=0/242, 4-7=-52/158, 3-7=-629/73

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2 and 119 lb uplift at joint 6.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 12=60 (F=30, B=30), 14=-88 (F=-44, B=-44), 15=59 (F=29, B=29), 16=-1 (F=0, B=0), 17=-54 (F=-27, B=-27)



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

January 6, 2025

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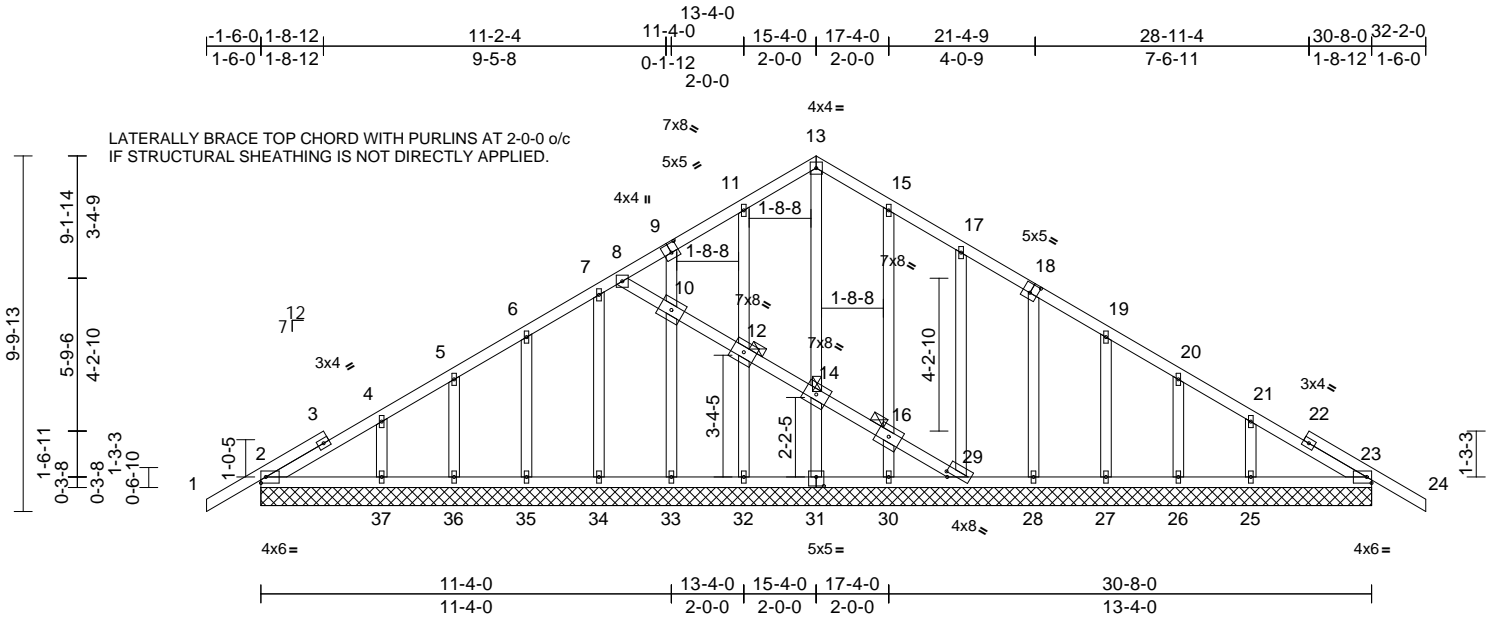
Job	Truss	Truss Type	Qty	Ply	Revis	T35960447
1224-061	D01	Common Supported Gable	1	1	Job Reference (optional)	

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

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Page: 1

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Scale = 1:63.6												
Plate Offsets (X, Y): [9:0-2-8,0-3-0], [18:0-2-8,0-3-0], [29:0-1-2,0-1-8], [31:0-2-8,0-3-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	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	0.09	Horz(CT)	0.00	41	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 218 lb	FT = 20%

LUMBER		TOP CHORD	1-2=0/45, 2-4=-115/120, 4-5=-115/95, 5-6=-101/87, 6-7=-94/107, 7-8=-83/111, 8-11=-78/120, 11-13=-101/159, 13-15=-100/158, 15-17=-79/122, 17-19=-56/81, 19-20=-44/33, 20-21=-57/36, 21-23=-103/78, 23-24=0/45, 8-10=-37/60, 10-12=-41/65, 12-14=-42/66, 14-16=-41/64, 16-29=-43/68	5) All plates are 1.5x4 MT20 unless otherwise indicated.
BRACING		BOT CHORD	2-37=-67/88, 36-37=-49/88, 35-36=-49/88, 34-35=-49/88, 33-34=-49/88, 32-33=-49/88, 30-32=-49/88, 29-30=-49/88, 28-29=-69/143, 27-28=-70/144, 26-27=-70/144, 25-26=-70/144, 23-25=-70/144	6) Gable requires continuous bottom chord bearing.
REACTIONS	(size)	WEBS	13-14=-112/28, 11-12=-131/53, 9-10=-112/46, 7-34=-110/6, 6-35=-125/61, 5-36=-107/55, 4-37=-164/66, 15-16=-126/49, 17-29=-117/59, 18-28=-120/55, 19-27=-124/57, 20-26=-108/56, 21-25=-164/63, 10-33=-114/39, 12-32=-129/52, 14-31=-113/25, 16-30=-125/42	7) Gable studs spaced at 2-0-0 oc.
FORCES	(lb) - Maximum Compression/Maximum Tension	NOTES	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 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.	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 34 lb uplift at joint 2, 10 lb uplift at joint 23, 19 lb uplift at joint 35, 20 lb uplift at joint 36, 6 lb uplift at joint 37, 15 lb uplift at joint 28, 16 lb uplift at joint 27, 20 lb uplift at joint 26, 4 lb uplift at joint 25, 48 lb uplift at joint 29, 2 lb uplift at joint 33, 12 lb uplift at joint 32, 5 lb uplift at joint 30, 34 lb uplift at joint 2 and 10 lb uplift at joint 23. 12) This truss design requires 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.



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

January 6,2025

Job	Truss	Truss Type	Qty	Ply	Revis
1224-061	D01	Common Supported Gable	1	1	T35960447
Job Reference (optional)					

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

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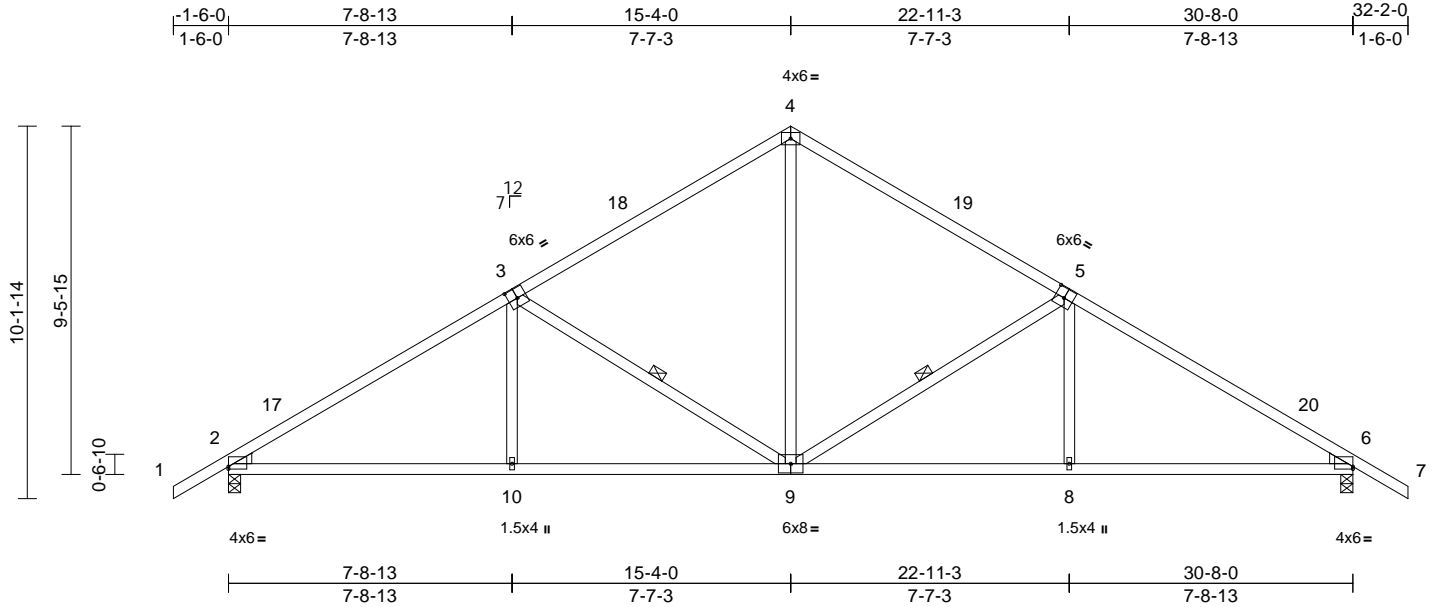
Job	Truss	Truss Type	Qty	Ply	Revis	T35960448
1224-061	D02	Common	4	1	Job Reference (optional)	

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Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:38

Page: 1

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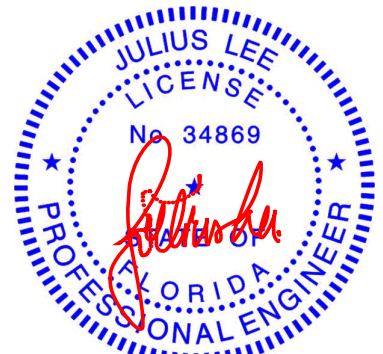


Scale = 1:62.8											
Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [6:Edge,0-0-13]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.08	8-9	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.20	8-9	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.07	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 158 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.3 Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-9, 3-9
REACTIONS	
(size)	2=0-4-0, 6=0-4-0
Max Horiz	2=-171 (LC 10)
Max Uplift	2=-35 (LC 12), 6=-35 (LC 12)
Max Grav	2=1317 (LC 1), 6=1317 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-4=-1915/129, 4-6=-1915/129, 6-7=0/45
BOT CHORD	2-10=-96/1555, 8-10=0/1552, 6-8=-97/1555
WEBS	4-9=0/798, 5-9=-621/93, 5-8=0/302, 3-9=-621/93, 3-10=0/302

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-13, Zone1 1-6-13 to 15-4-0, Zone2 15-4-0 to 19-8-1, Zone1 19-8-1 to 32-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard



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

January 6,2025

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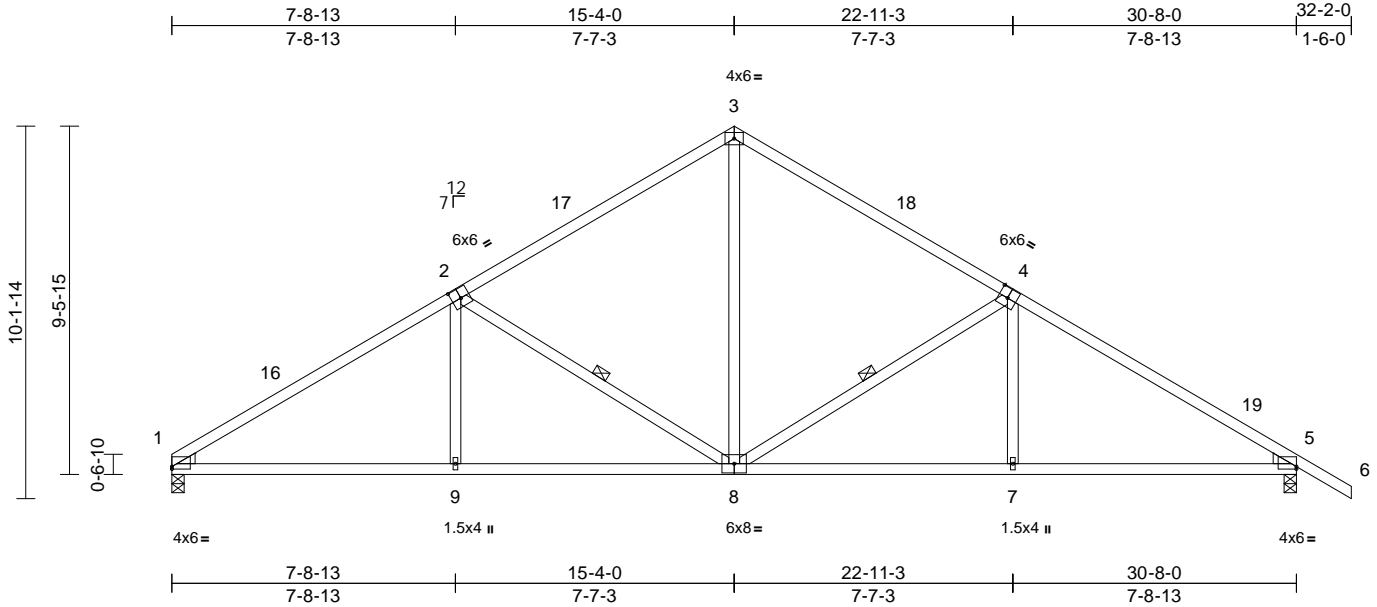
Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	D03	Common	5	1	Job Reference (optional)	T35960449

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

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Page: 1

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Scale = 1:62.8

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

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	0.52	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.20	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 155 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.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-8, 2-8

REACTIONS

(size) 1=0-4-0, 5=0-4-0
 Max Horiz 1=-167 (LC 10)
 Max Uplift 5=-36 (LC 12)
 Max Grav 1=1224 (LC 1), 5=1319 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-3=-1929/134, 3-5=-1920/130, 5-6=0/45
 BOT CHORD 1-9=-114/1569, 7-9=0/1567, 5-7=-98/1558
 WEBS 3-8=-5/804, 4-8=-621/94, 4-7=0/302,
 2-8=-634/96, 2-9=0/304

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-13,
 Zone1 3-0-13 to 15-4-0, Zone2 15-4-0 to 19-8-1, Zone1
 19-8-1 to 32-2-0 zone; cantilever left and right exposed;
 end vertical left and right exposed; C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 36 lb uplift at joint
 5.
- This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
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 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 6, 2025

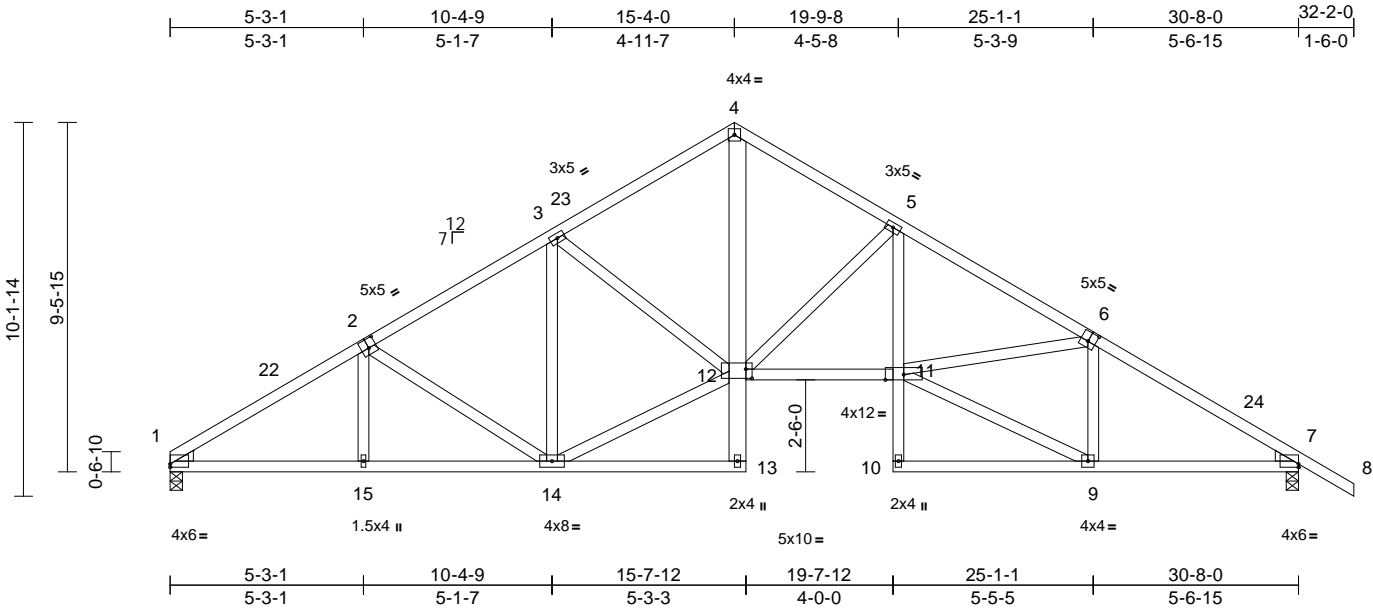
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Revis	T35960450
1224-061	D04	Roof Special	1	1	Job Reference (optional)	



Scale = 1:62.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.28	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 201 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 13-4:2x6 SP No.2

WEBS 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-4-0, 7=0-4-0

Max Horiz 1=-167 (LC 10)

Max Uplift 7=-36 (LC 12)

Max Grav 1=1224 (LC 1), 7=1319 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-1985/110, 3-4=-1700/103,

4-5=-1722/97, 5-7=-2602/64, 7-8=0/45

BOT CHORD 1-15=-54/1635, 14-15=0/1634, 13-14=0/34,

12-13=0/93, 4-12=-19/1383, 11-12=0/2188,

10-11=0/104, 5-11=0/848, 9-10=0/39,

7-9=-46/1613

WEBS 5-12=-1037/62, 9-11=0/1772, 6-11=0/561,

6-9=-717/59, 2-15=0/175, 3-14=-367/3,

2-14=-340/62, 12-14=0/1486, 3-12=-77/139

NOTES

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust)

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;

B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed;

MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-13,

Zone1 3-0-13 to 15-4-0, Zone2 15-4-0 to 19-9-8, Zone1

19-9-8 to 32-2-0 zone; cantilever left and right exposed ;

end vertical left and right exposed;C-C for members and

forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

January 6,2025

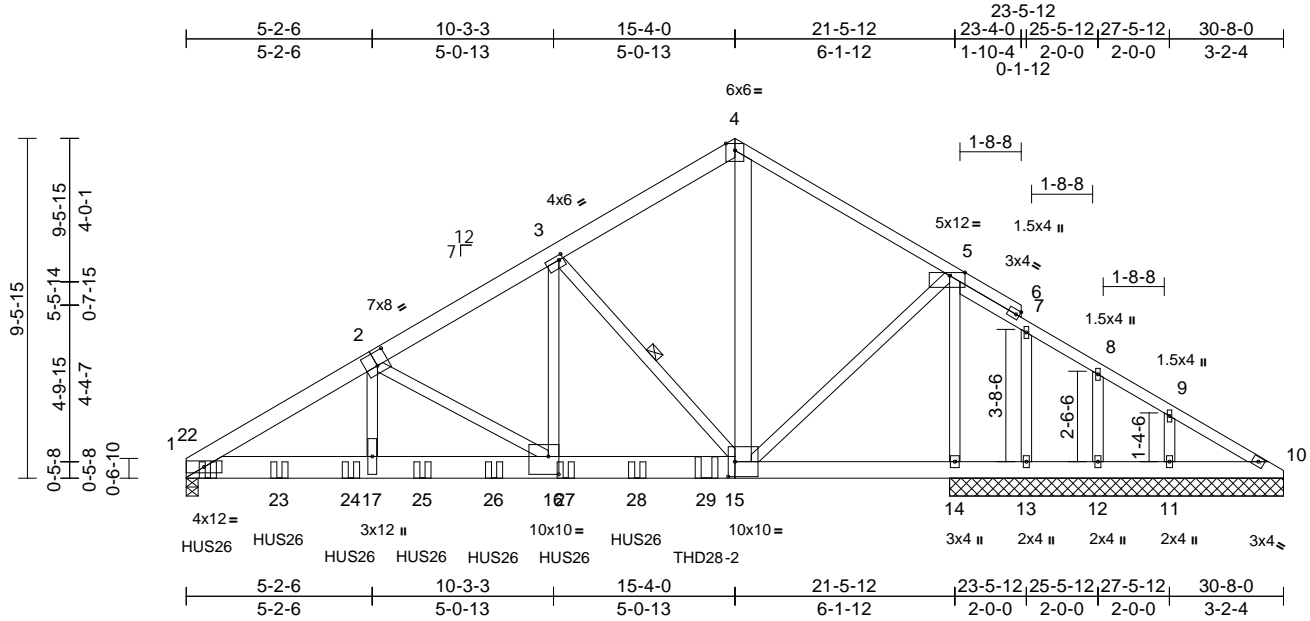
Job	Truss	Truss Type	Qty	Ply	Revis	T35960451
1224-061	D05	Common Girder	1	2	Job Reference (optional)	

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Page: 1

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Scale = 1:64.4									
Plate Offsets (X, Y): [2:0-4-0,0-4-8], [3:0-1-8,0-1-8], [5:0-5-2,Edge], [15:0-2-4,0-5-0], [16:0-3-8,0-6-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.13 16-17	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.24 16-17	>999	180
BCLL	0.0*	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.04 14	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 471 lb FT = 20%									

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 2-4,1-2:2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 15-1:2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 15-4:2x6 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-11-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-15
REACTIONS	
(size)	1=0-4-0, 10=9-4-0, 11=9-4-0, 12=9-4-0, 13=9-4-0, 14=9-4-0
Max Horiz	1=159 (LC 7)
Max Uplift	10=444 (LC 21), 11=60 (LC 25), 12=37 (LC 25), 13=121 (LC 21)
Max Grav	1=8862 (LC 13), 10=77 (LC 5), 11=178 (LC 20), 12=121 (LC 1), 13=15 (LC 7), 14=7677 (LC 13)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	4-5=-4557/380, 5-7=0/1267, 7-8=0/1201, 8-9=0/1140, 9-10=0/1162, 1-3=-13294/0, 3-4=-4562/385
BOT CHORD	1-17=0/11500, 16-17=0/11463, 14-16=-985/8054, 13-14=-985/0, 12-13=-985/0, 11-12=-985/0, 10-11=-985/0
WEBS	5-14=-7551/67, 4-15=-313/4295, 5-15=0/6547, 2-17=0/3765, 3-16=0/6889, 3-15=-6378/0, 2-16=-4032/0, 7-13=-17/50, 8-12=-44/91, 9-11=-151/46

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E, Joint 10 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 13, 37 lb uplift at joint 12, 60 lb uplift at joint 11 and 444 lb uplift at joint 10.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 12-7-4 to connect truss(es) to back face of bottom chord.
- Use MiTek THD28-2 (With 28-16d nails into Girder & 16-10d nails into Truss) or equivalent at 14-6-8 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 4-10=-60, 1-10=-20
Concentrated Loads (lb)
Vert: 22=-1269 (B), 23=-1265 (B), 24=-1265 (B), 25=-1265 (B), 26=-1265 (B), 27=-1265 (B), 28=-1265 (B), 29=-2898 (B)



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 6, 2025

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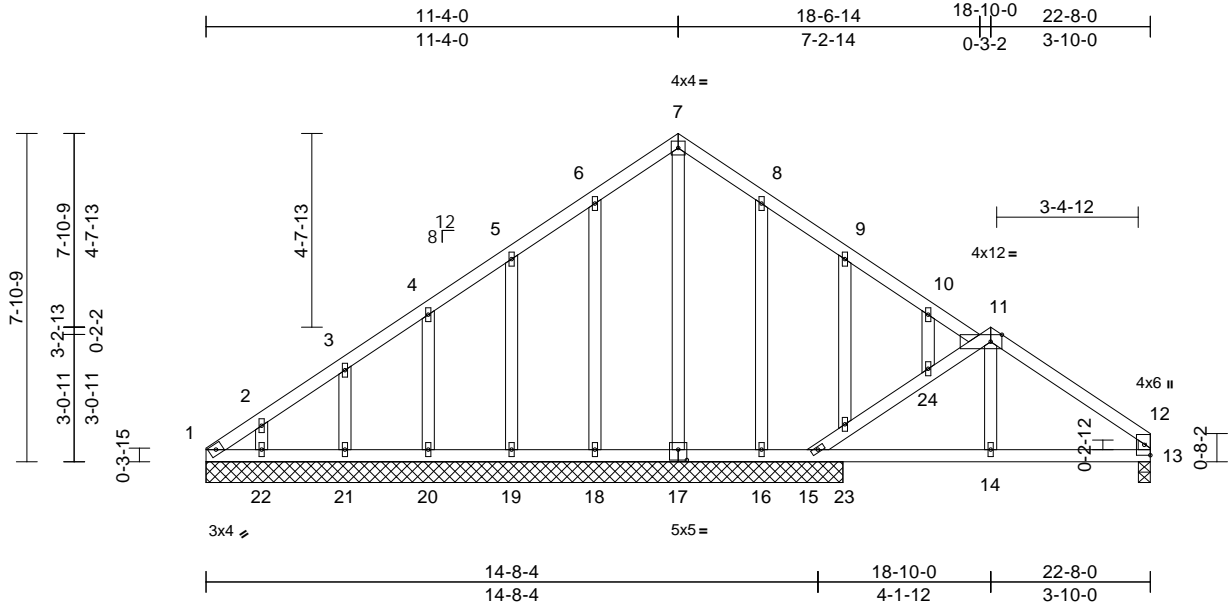
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Job	Truss	Truss Type	Qty	Ply	Revis	T35960452
1224-061	G01	Common Supported Gable	1	1	Job Reference (optional)	

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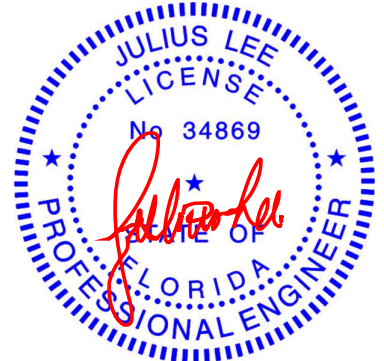
Page: 1



Scale = 1:55.3									
Plate Offsets (X, Y): [11:0-3-4,Edge], [17:0-2-8,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.01 14-15	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02 14-15	>999	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00 15	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS					
								Weight: 139 lb	FT = 20%

LUMBER		WEBS	7-17=-174/0, 6-18=-134/64, 5-19=-119/71, 4-20=-122/67, 3-21=-125/70, 2-22=-107/58, 8-16=-178/88, 9-23=-117/67, 10-24=-18/39, 15-23=-361/127, 23-24=-297/90, 11-24=-318/99, 11-14=0/164	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.
TOP CHORD	2x4 SP No.2			
BOT CHORD	2x4 SP No.2			
WEBS	2x4 SP No.2			
OTHERS	2x4 SP No.2			

BRACING		NOTES	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	1) Unbalanced roof live loads have been considered for this design.	
BOT CHORD	Rigid ceiling directly applied.	2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
REACTIONS	(size)	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.	
	1=15-3-7, 13=0-3-7, 15=15-3-7, 16=15-3-7, 17=15-3-7, 18=15-3-7, 19=15-3-7, 20=15-3-7, 21=15-3-7, 22=15-3-7	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.	
	Max Horiz 1=144 (LC 11)	5) All plates are 1.5x4 MT20 unless otherwise indicated.	
	Max Uplift 1=-57 (LC 10), 15=-12 (LC 12), 16=-57 (LC 12), 18=-18 (LC 12), 19=-23 (LC 12), 20=-20 (LC 12), 21=-22 (LC 12), 22=-19 (LC 12)	6) Gable studs spaced at 2-0-0 oc.	
	Max Grav 1=49 (LC 9), 13=272 (LC 1), 15=353 (LC 18), 16=172 (LC 18), 17=221 (LC 1), 18=172 (LC 17), 19=159 (LC 17), 20=161 (LC 17), 21=165 (LC 17), 22=149 (LC 17)	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
FORCES	(lb) - Maximum Compression/Maximum Tension	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.	
TOP CHORD	11-12=-285/40, 12-13=-233/47, 1-2=-121/169, 2-3=-84/166, 3-4=-42/152, 4-5=-28/140, 5-6=-14/129, 6-7=-37/144, 7-8=-44/149, 8-9=0/135, 9-10=0/126, 10-11=0/53	9) All bearings are assumed to be SP No.2.	
BOT CHORD	1-22=-108/108, 21-22=-108/108, 20-21=-108/108, 19-20=-108/108, 18-19=-108/108, 16-18=-108/108, 15-16=-108/108, 14-15=0/184, 13-14=0/190	10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 1, 18 lb uplift at joint 18, 23 lb uplift at joint 19, 20 lb uplift at joint 20, 22 lb uplift at joint 21, 19 lb uplift at joint 22, 57 lb uplift at joint 16 and 12 lb uplift at joint 15.	



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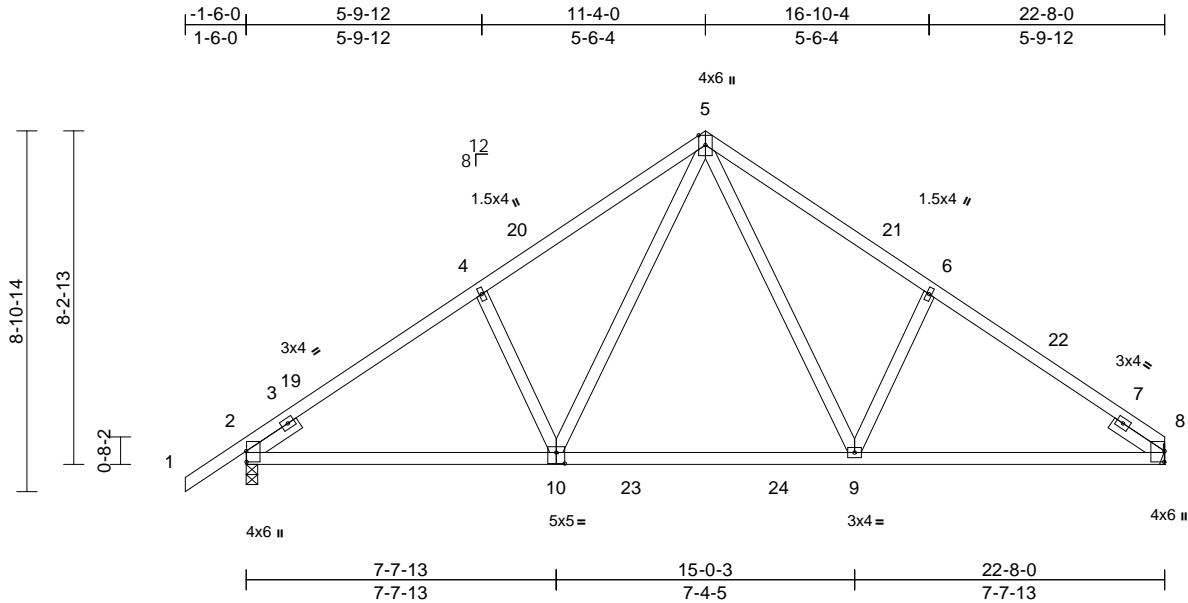
Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	G02	Common	5	1	Job Reference (optional)	T35960453

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

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Page: 1

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Scale = 1:56.9

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

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	0.28	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.19	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 120 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-7, 8= Mechanical
Max Horiz 2=152 (LC 11)
Max Uplift 2=37 (LC 12)
Max Grav 2=1102 (LC 17), 8=1016 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-4=-1328/78, 4-5=-1243/136,
5-6=-1253/147, 6-8=-1324/91

BOT CHORD 2-9=-59/1144, 8-9=-85/1056

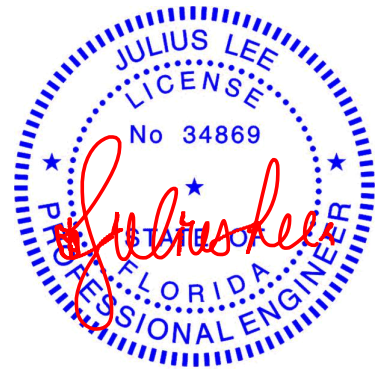
WEBS 5-9=-35/617, 6-9=-295/130, 5-10=-31/602,
4-10=-286/129

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 11-4-0, Zone2 11-4-0 to 15-6-15, Zone1
15-6-15 to 22-8-0 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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

January 6, 2025

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

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

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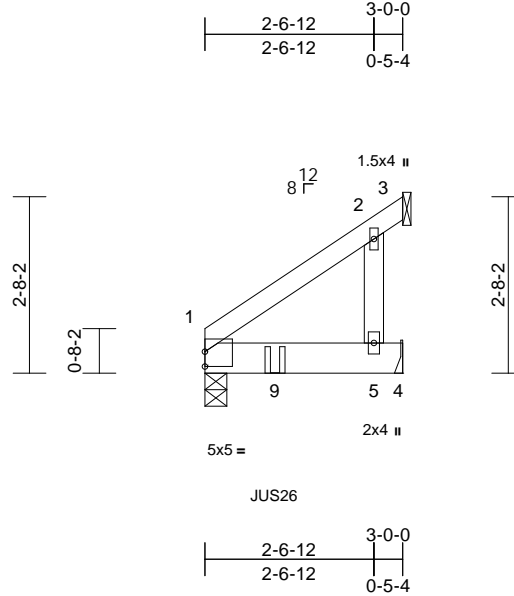
Job	Truss	Truss Type	Qty	Ply	Revis	T35960454
1224-061	G03	Jack-Open Girder	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:39

Page: 1

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Scale = 1:34.9

Plate Offsets (X, Y): [1:Edge,0-2-11]

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)	-0.01	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.03	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-4-0, 3= Mechanical, 4= Mechanical
Max Horiz 1=47 (LC 21)
Max Grav 1=799 (LC 1), 3=136 (LC 1), 4=368 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-139/40, 2-3=0/74
BOT CHORD 1-5=-69/11, 4-5=0/0
WEBS 2-5=0/117

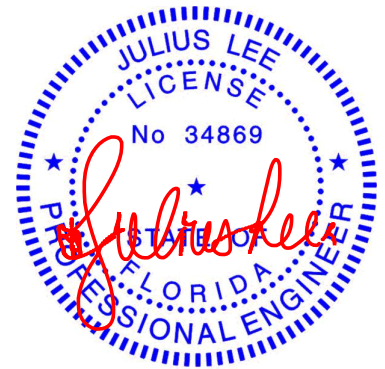
NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 1 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Refer to girder(s) for truss to truss connections.

- 8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-1068 (B)



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

January 6, 2025

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Job	Truss	Truss Type	Qty	Ply	Revis	T35960455
1224-061	H01	Common Supported Gable	1	1	Job Reference (optional)	

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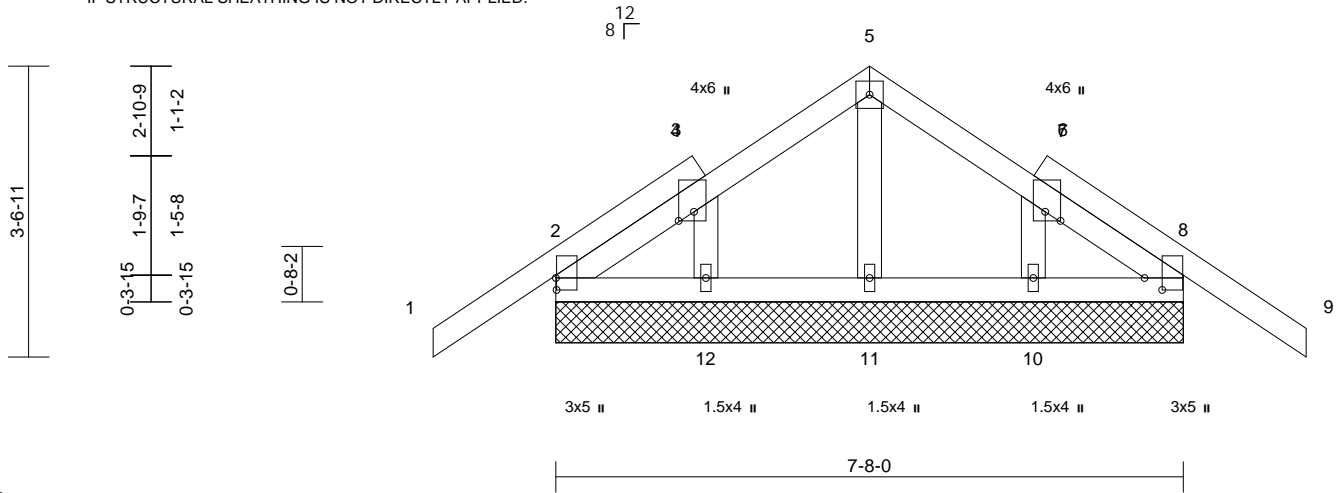
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Page: 1

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-1-6-0	1-8-0	3-10-0	6-0-0	7-8-0	9-2-0
1-6-0	1-8-0	2-2-0	2-2-0	1-8-0	1-6-0

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



Scale = 1:28.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	17	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 43 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
OTHERS 2x4 SP No.2

BRACING

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

REACTIONS

(size) 2=7-8-0, 8=7-8-0, 10=7-8-0,
11=7-8-0, 12=7-8-0
Max Horiz 2=-59 (LC 10)
Max Uplift 2=-38 (LC 12), 8=-38 (LC 12),
10=-7 (LC 12), 12=-7 (LC 12)
Max Grav 2=174 (LC 23), 8=174 (LC 24),
10=150 (LC 18), 11=171 (LC 1),
12=151 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/50, 2-3=-65/59, 3-5=-72/62,
5-7=-72/63, 7-8=-60/50, 8-9=0/50
BOT CHORD 2-12=-43/142, 11-12=-43/142, 10-11=-43/142,
8-10=-43/142
WEBS 5-11=-124/32, 3-12=-126/145, 7-10=-126/145

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E .
- Solid blocking is required on both sides of the truss at joint(s), 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2, 38 lb uplift at joint 8, 7 lb uplift at joint 12, 7 lb uplift at joint 10, 38 lb uplift at joint 2 and 38 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 6, 2025

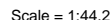
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 71 lb	FT = 20%

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

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

Max Horiz 7=201 (LC 9)
Max Uplift 5=-109 (LC 9), 7=-53 (LC 8)
Max Gray 5=290 (LC 17), 7=379 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-129/101, 3-4=-97/105,
4-5=-146/90, 2-7=-385/242

BOT CHORD 6-7=-319/246, 5-6=-232/235

WEBS 3-6=-195/134, 3-5=-272/282, 2-6=-42/270

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0,
 Zone1 10-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1
 15-2-15 to 15-10-4 zone; cantilever left and right
 exposed ; and 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.
- 7) Bearings are assumed to be: Joint 7 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 5 and 53 lb uplift at joint 7.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Date:

January 6, 2025

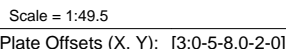


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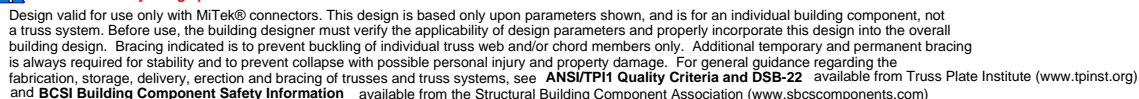


LUMBER			
TOP CHORD	2x4	SP No.2	
BOT CHORD	2x4	SP No.2	
WEBS	2x4	SP No.2	
BRACING			
TOP CHORD	Structural wood sheathing directly applied, except end verticals.		
BOT CHORD	Rigid ceiling directly applied.		
WEBS	1 Row at midpt	4-5, 3-5	
REACTIONS	(size)	5= Mechanical, 7=0-4-0	
	Max Horiz	7=236 (LC 9)	
	Max Uplift	5=-140 (LC 9), 7=-41 (LC 8)	
	Max Grav	5=309 (LC 17), 7=399 (LC 18)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-3=-150/105, 3-4=-112/121, 4-5=-86/56, 2-7=-366/241		
BOT CHORD	6-7=-386/291, 5-6=-198/207		
WEBS	3-6=-213/206, 3-5=-354/357, 2-6=-151/329		
			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 7 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 140 lb uplift at joint 5 and 41 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.
LOAD CASE(S)		Standard	

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0,
Zone1 10-6-0 to 13-0-0, Zone3 13-0-0 to 15-10-4 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
- 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

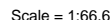


January 6, 2025



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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0,
 Zone1 10-6-0 to 15-0-0, Zone3 15-0-0 to 15-10-4 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) 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.
- 7) Bearings are assumed to be: Joint 7 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 5 and 41 lb uplift at joint 7.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



January 6, 2025



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbsccomponents.com)

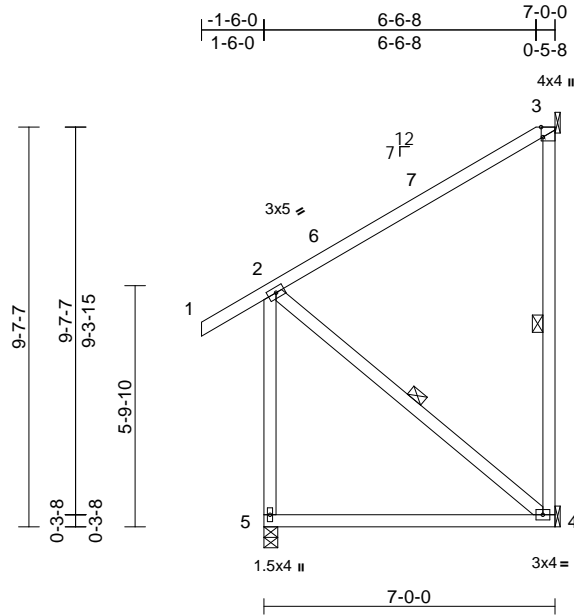
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-LS.com

Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	H05	Half Hip	1	1	Job Reference (optional)	T35960459

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:39
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Page: 1



Scale = 1:55.4

Plate Offsets (X, Y): [3:0-2-14,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	0.83	Vert(LL)	-0.12	4-5	>663	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	4-5	>331	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-4, 2-4

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-4-0
Max Horiz 5=286 (LC 9)
Max Uplift 3=-72 (LC 9), 4=-112 (LC 9), 5=-44 (LC 8)
Max Grav 3=200 (LC 17), 4=174 (LC 10), 5=443 (LC 18)

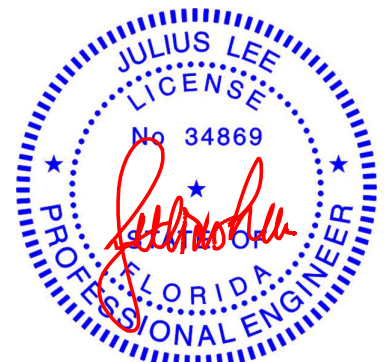
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-221/188, 3-4=0/0, 2-5=-376/236
BOT CHORD 4-5=-466/353
WEBS 2-4=-329/492

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0, Zone1 10-6-0 to 15-10-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 5 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 5, 112 lb uplift at joint 4 and 72 lb uplift at joint 3.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S)** Standard



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

January 6, 2025

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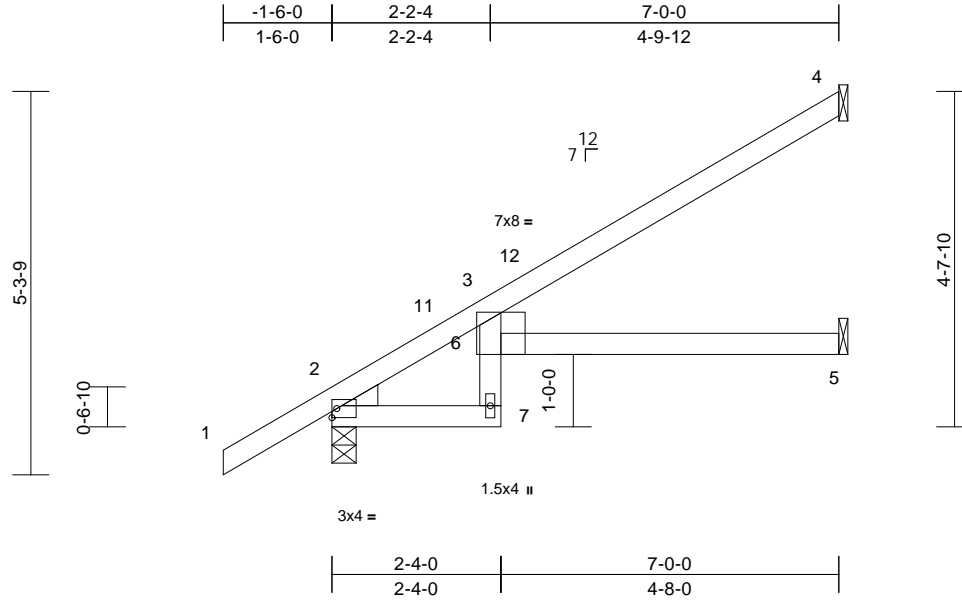
Job	Truss	Truss Type	Qty	Ply	Revis	T35960460
1224-061	J01	Jack-Open	6	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:39

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.12	5-6	>689	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.22	5-6	>376	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=0-4-0, 4= Mechanical, 5= Mechanical
Max Horiz 2=129 (LC 12)
Max Uplift 2=-10 (LC 12), 4=43 (LC 12)
Max Grav 2=377 (LC 1), 4=170 (LC 1), 5=121 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-325/57, 3-4=-91/73
BOT CHORD 2-7=-141/226, 6-7=-5/62, 3-6=-4/103, 5-6=0/0

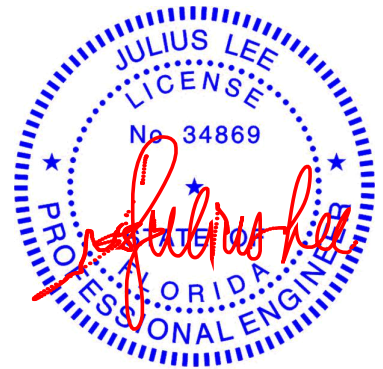
NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0,
Zone1 1-6-0 to 6-11-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 43 lb uplift at joint
4 and 10 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:

January 6, 2025

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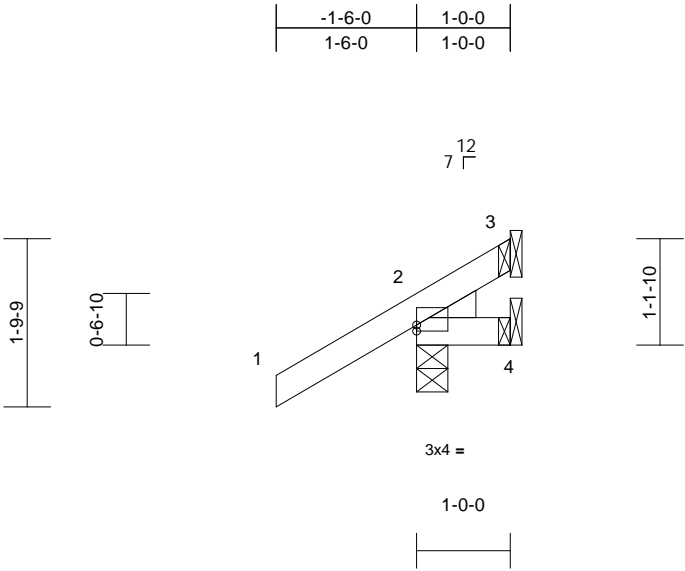
Job	Truss	Truss Type	Qty	Ply	Revis
1224-061	J02	Jack-Open	5	1	Job Reference (optional)

T35960461

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
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Page: 1



Scale = 1:24.6

Plate Offsets (X, Y): [2:Edge,0-0-13]

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	0.16	Vert(LL)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
										Weight: 7 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-4-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=46 (LC 12)
Max Uplift 2=-64 (LC 12), 3=-8 (LC 1), 4=-21 (LC 1)
Max Grav 2=198 (LC 1), 3=8 (LC 12), 4=19 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension

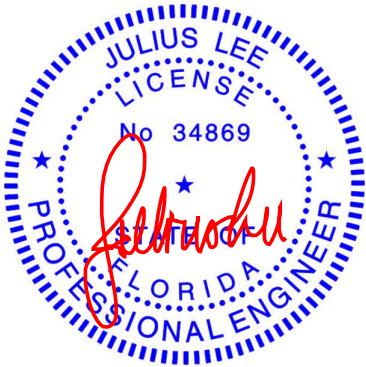
TOP CHORD 1-2=0/45, 2-3=-146/106
BOT CHORD 2-4=-69/37

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever
left and right exposed; end vertical left and right
exposed;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 64 lb uplift at joint
2, 21 lb uplift at joint 4 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard



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

January 6,2025

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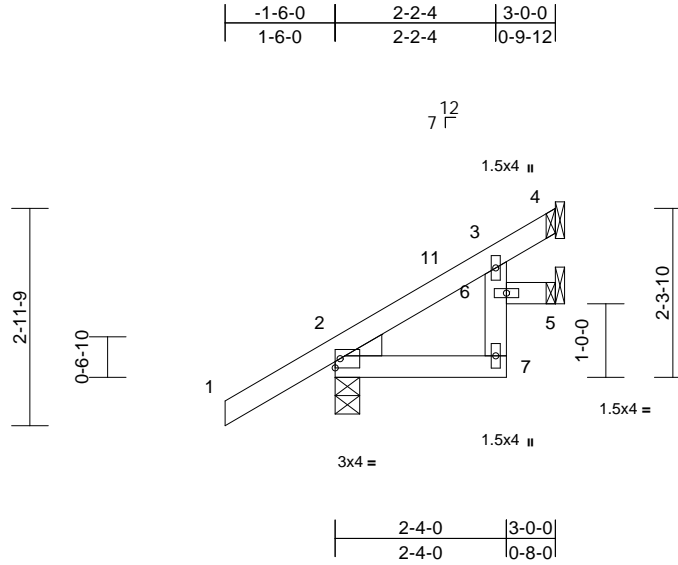
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960462
1224-061	J03	Jack-Open	2	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
ID:LcEOsHt5tNWjdUhuS7ZJiy59sG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:31.4

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	0.16	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR						Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4 and 33 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 2=0-4-0, 4= Mechanical, 5= Mechanical
Max Horiz 2=73 (LC 12)
Max Uplift 2=-33 (LC 12), 4=-7 (LC 12)
Max Grav 2=230 (LC 1), 4=43 (LC 1), 5=54 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-180/101, 3-4=-21/19
BOT CHORD 2-7=-55/55, 6-7=0/42, 3-6=-28/51, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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

January 6, 2025

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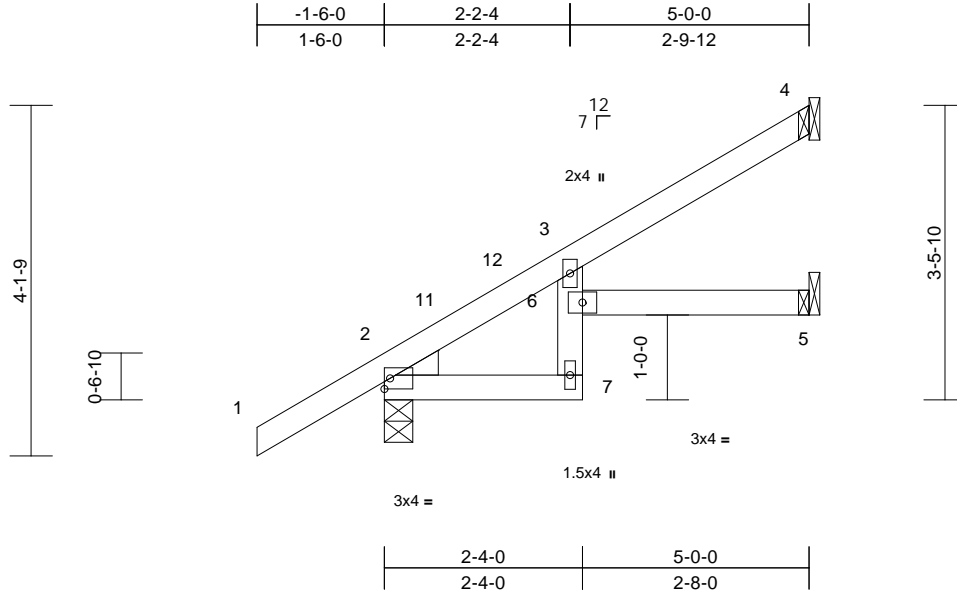
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Revis	T35960463
1224-061	J04	Jack-Open	2	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
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Page: 1



Scale = 1:27.1

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	0.21	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-4-0, 4= Mechanical, 5= Mechanical
Max Horiz 2=101 (LC 12)
Max Uplift 2=-20 (LC 12), 4=-25 (LC 12)
Max Grav 2=301 (LC 1), 4=110 (LC 1), 5=86 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

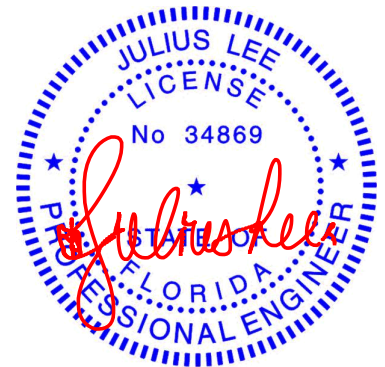
TOP CHORD 1-2=0/45, 2-3=-198/80, 3-4=-64/48
BOT CHORD 2-7=-123/145, 6-7=-5/51, 3-6=-15/67, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0,
Zone1 1-6-0 to 4-11-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 25 lb uplift at joint
4 and 20 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:

January 6, 2025

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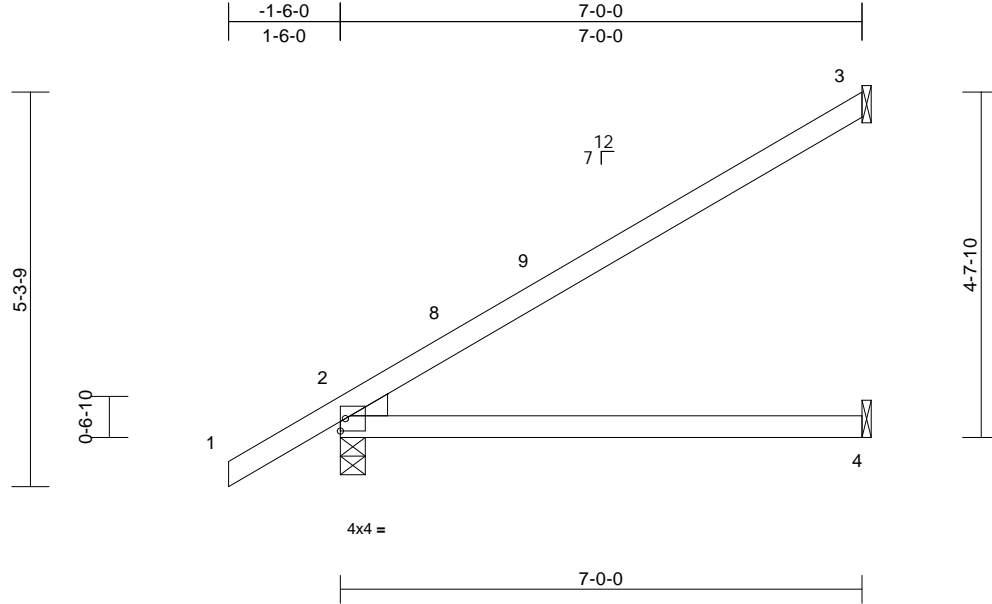
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960464
1224-061	J05	Jack-Open	2	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
ID:LcEOsHt5tNWjdUhuS72ZJiy59sG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.09	4-7	>897	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>383	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=0-4-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=129 (LC 12)
Max Uplift 2=-10 (LC 12), 3=-55 (LC 12)
Max Grav 2=377 (LC 1), 3=188 (LC 1), 4=126 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

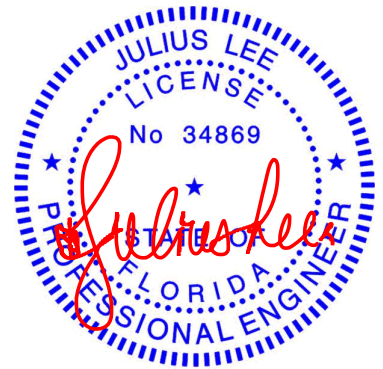
TOP CHORD 1-2=0/45, 2-3=-362/201
BOT CHORD 2-4=-364/145

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0,
Zone1 1-6-0 to 6-11-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 55 lb uplift at joint
3 and 10 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:

January 6, 2025

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

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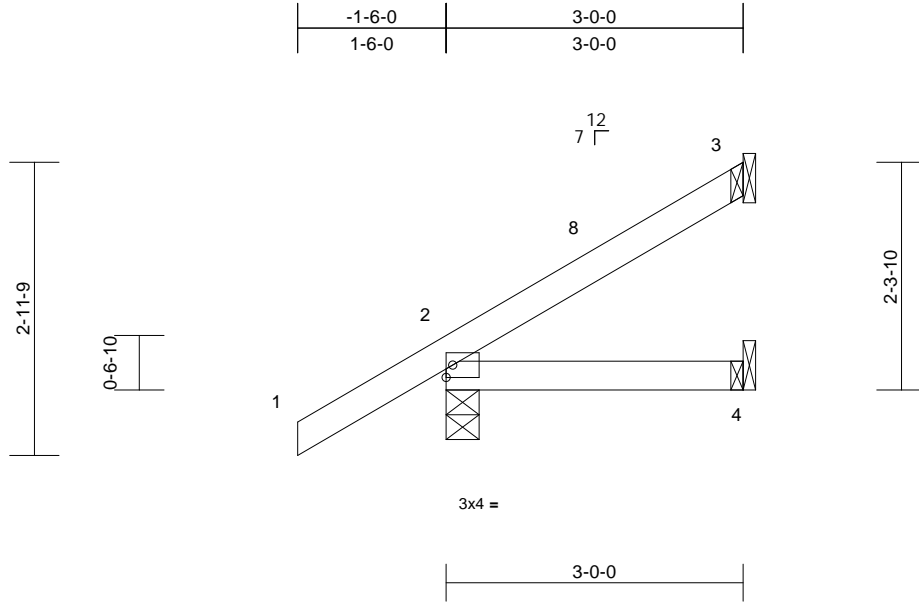
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	J06	Jack-Open	3	1	Job Reference (optional)	T35960465

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
ID:UFglS1YYv_rL5l5g9eiEQdy5A10-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:23.3

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	0.16	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-4-0, 3= Mechanical, 4=
Mechanical
Max Horiz 2=73 (LC 12)
Max Uplift 2=33 (LC 12), 3=19 (LC 12)
Max Grav 2=230 (LC 1), 3=68 (LC 17), 4=52
(LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/45, 2-3=-201/124
BOT CHORD 2-4=-89/46

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 2-11-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 19 lb uplift at joint
3 and 33 lb uplift at joint 2.

LOAD CASE(S) Standard



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

January 6, 2025

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

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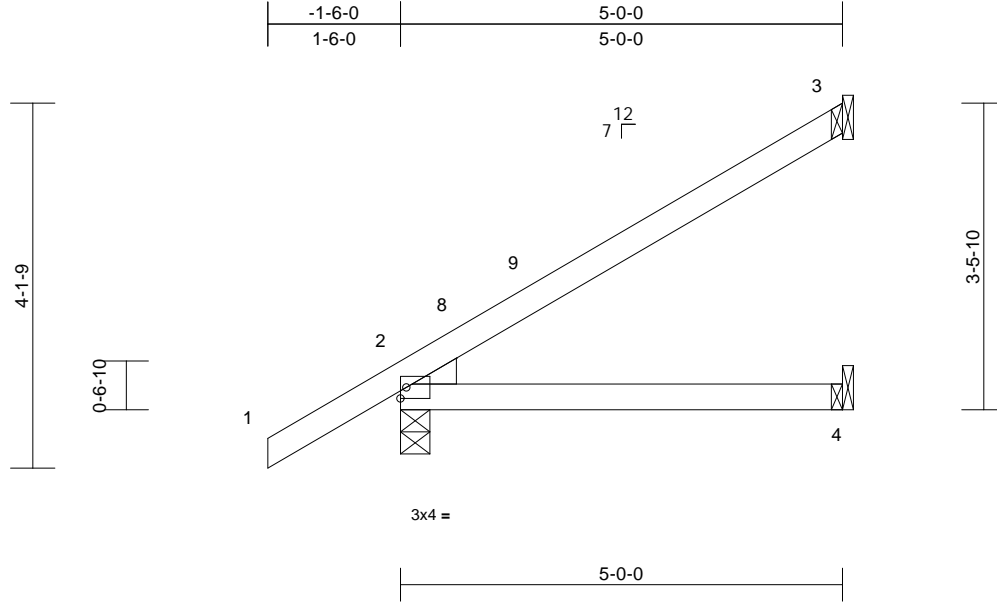
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960466
1224-061	J07	Jack-Open	3	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
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Page: 1



Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-4-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=101 (LC 12)
Max Uplift 2=-20 (LC 12), 3=-37 (LC 12)
Max Grav 2=301 (LC 1), 3=129 (LC 1), 4=90 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

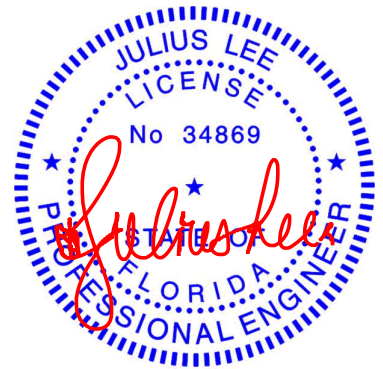
TOP CHORD 1-2=0/45, 2-3=-284/158
BOT CHORD 2-4=-247/99

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0,
Zone1 1-6-0 to 4-11-4 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 37 lb uplift at joint
3 and 20 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:

January 6, 2025

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Chesterfield, MO 63017
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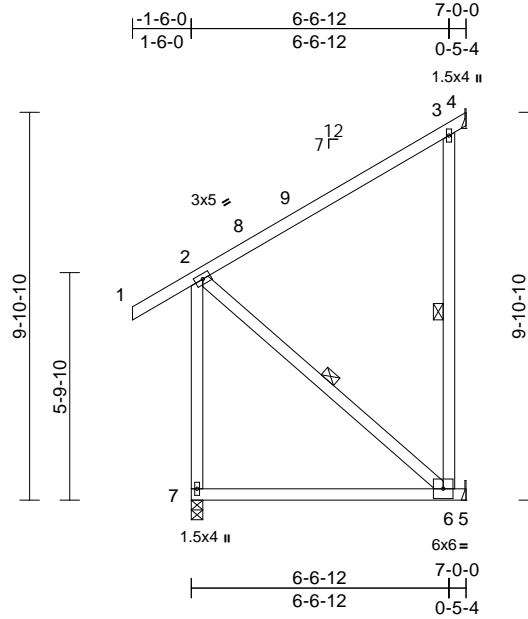
Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	J08	Jack-Open	5	1	Job Reference (optional)	T35960467

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40

Page: 1

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Scale = 1:58.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	0.09	6-7	>864	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(LL)	-0.21	6-7	>396		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Vert(CT)	-0.03	4	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Horz(CT)	0.03		n/a		
										Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-6, 2-6

REACTIONS	(size) 4= Mechanical, 5= Mechanical, 7=0-3-8
	Max Horiz 7=239 (LC 12)
	Max Uplift 4=8 (LC 1), 5=234 (LC 12)
	Max Grav 4=252 (LC 3), 5=297 (LC 17), 7=382 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/50, 2-3=-134/75, 3-4=-15/127, 2-7=-303/20
BOT CHORD	6-7=-296/154, 5-6=0/0
WEBS	3-6=-211/295, 2-6=-203/393

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0, Zone1 10-6-0 to 15-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 4 and 234 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

January 6, 2025

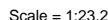
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40 Page: 1
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NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 2-11-4 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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

January 6, 2025



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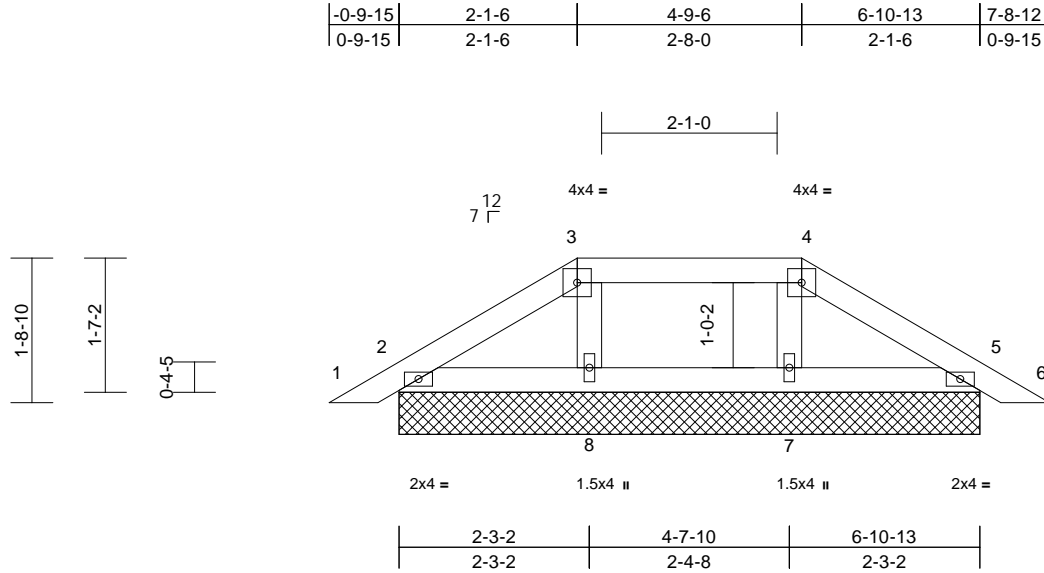
Job	Truss	Truss Type	Qty	Ply	Revis	T35960469
1224-061	PB01	Piggyback	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=6-10-13, 5=6-10-13, 7=6-10-13, 8=6-10-13
Max Horiz 2=27 (LC 11)
Max Uplift 2=23 (LC 12), 5=23 (LC 12)
Max Grav 2=131 (LC 1), 5=131 (LC 1), 7=181 (LC 24), 8=181 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-46/46, 3-4=-25/53, 4-5=-46/45, 5-6=0/16

BOT CHORD 2-8=0/28, 7-8=-6/35, 5-7=0/28

WEBS 4-7=-118/64, 3-8=-118/63

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 23 lb uplift at joint 5, 23 lb uplift at joint 2 and 23 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

January 6, 2025

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

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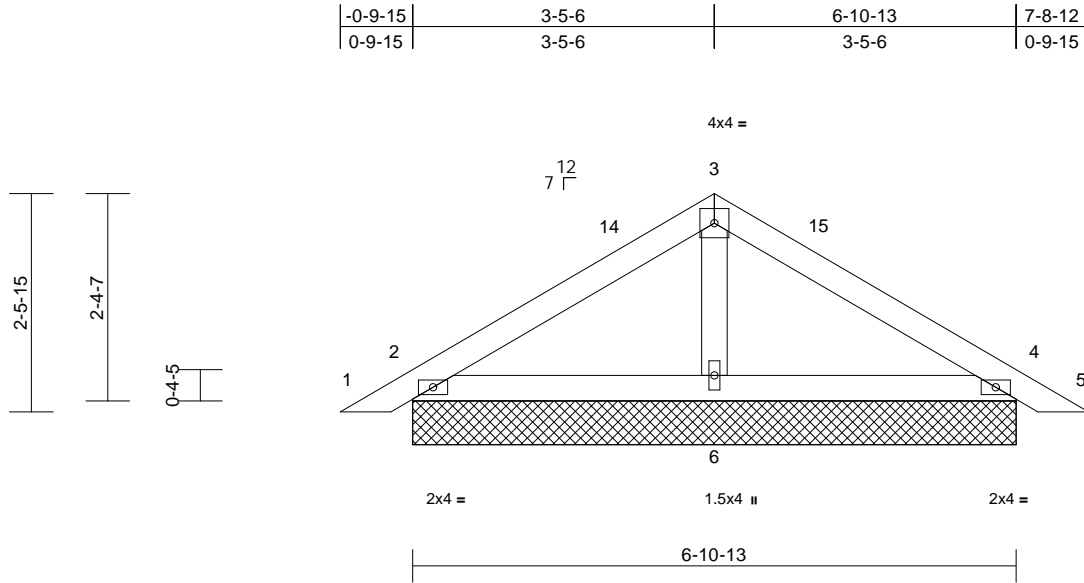
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960470
1224-061	PB02	Piggyback	14	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:40
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Page: 1



Scale = 1:26.3

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	0.13	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	11	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 28 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=6-10-13, 4=6-10-13, 6=6-10-13
Max Horiz 2=-40 (LC 10)
Max Uplift 2=-25 (LC 12), 4=-25 (LC 12)
Max Grav 2=184 (LC 1), 4=184 (LC 1), 6=248 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-102/94, 3-4=-102/84, 4-5=0/16

BOT CHORD 2-6=-6/51, 4-6=-14/51

WEBS 3-6=-113/35

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-8 to 3-3-8, Zone1 3-3-8 to 4-3-6, Zone3 4-3-6 to 8-3-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 25 lb uplift at joint 4, 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

January 6,2025

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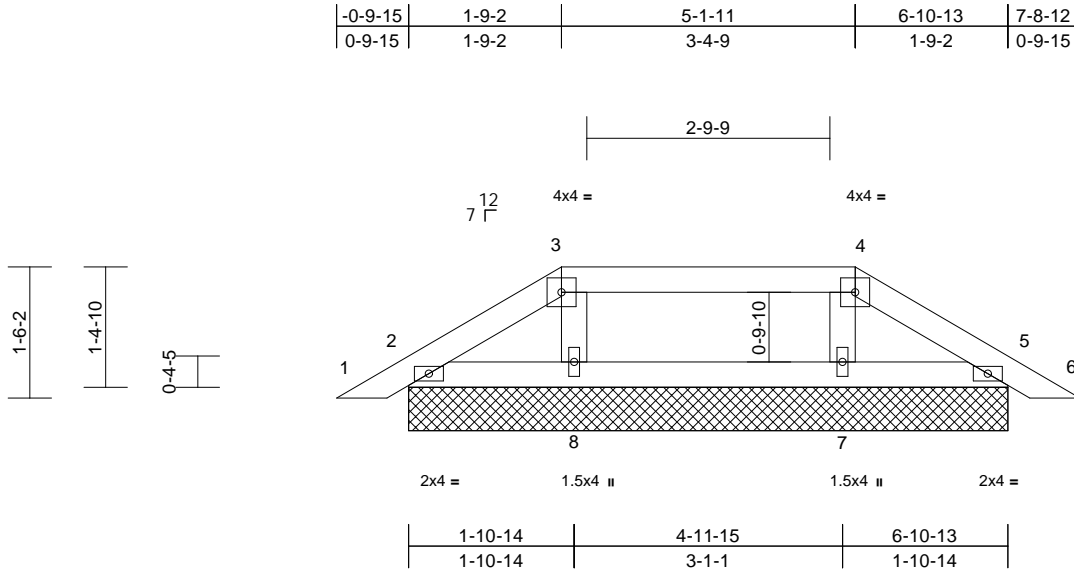
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960471
1224-061	PB03	Piggyback	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:41
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	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	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=6-10-13, 5=6-10-13, 7=6-10-13, 8=6-10-13
Max Horiz 2=24 (LC 11)
Max Uplift 2=25 (LC 12), 5=25 (LC 12)
Max Grav 2=115 (LC 1), 5=115 (LC 1), 7=195 (LC 24), 8=195 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

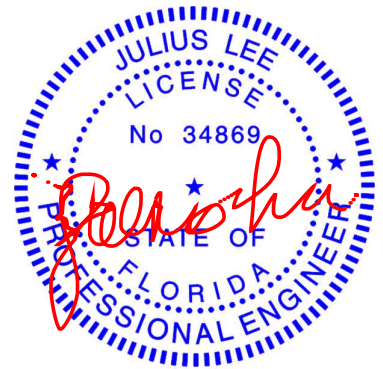
TOP CHORD 1-2=0/16, 2-3=-41/42, 3-4=-17/44, 4-5=-41/42, 5-6=0/16
BOT CHORD 2-8=0/24, 7-8=-9/33, 5-7=0/24
WEBS 3-8=-129/73, 4-7=-129/74

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 25 lb uplift at joint 5, 25 lb uplift at joint 2 and 25 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

January 6, 2025

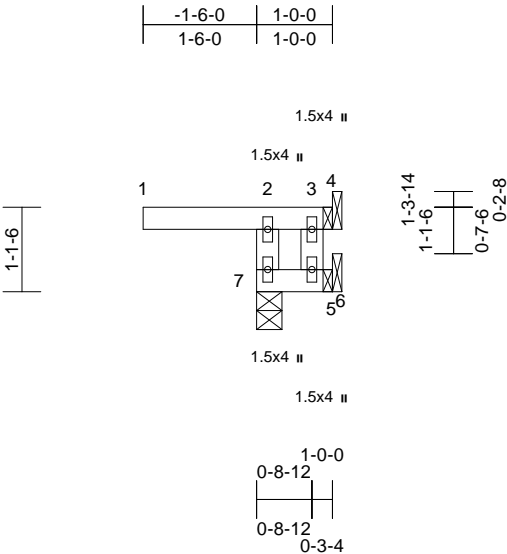
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	T01	Roof Special	1	1	Job Reference (optional)	T35960472



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

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
- 6) Bearings are assumed to be: , Joint 7 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 99 lb uplift at joint 7, 25 lb uplift at joint 4 and 38 lb uplift at joint 5.

- BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- LOAD CASE(S)** Standard

- REACTIONS** (size) 4= Mechanical, 5= Mechanical, 7=0-4-0
Max Horiz 7=23 (LC 10)
Max Uplift 4=25 (LC 1), 5=38 (LC 1), 7=99 (LC 8)
Max Grav 4=22 (LC 8), 5=32 (LC 8), 7=229 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-218/257, 1-2=0/0, 2-3=-45/38, 3-4=0/0, 3-6=-45/44
BOT CHORD 6-7=-42/70, 5-6=0/0

- NOTES**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
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.



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

January 6,2025

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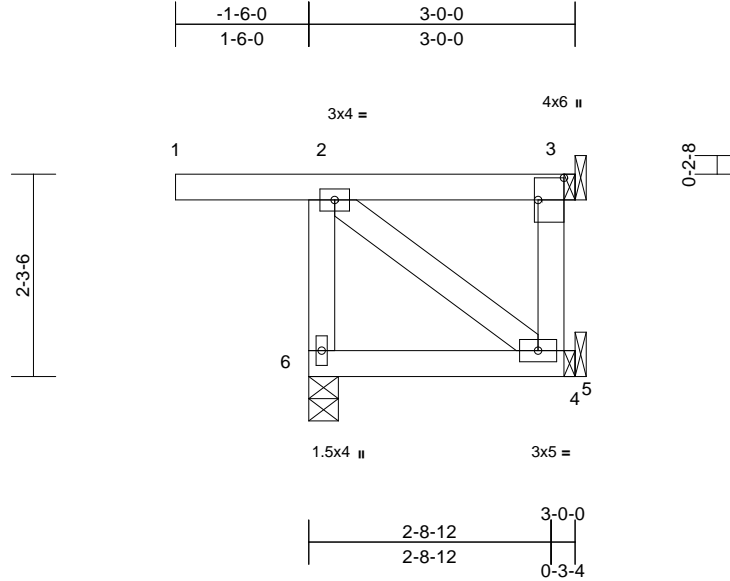
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Revis	T35960473
1224-061	T02	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:41
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Page: 1



Scale = 1:26

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

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	0.16	Vert(LL)	0.00	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	5-6	>999	180	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
Weight: 20 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 5= Mechanical, 6=0-4-0
Max Horiz 6=56 (LC 9)
Max Uplift 3=-13 (LC 9), 5=-2 (LC 9), 6=-82 (LC 8)
Max Grav 3=46 (LC 1), 5=63 (LC 3), 6=233 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

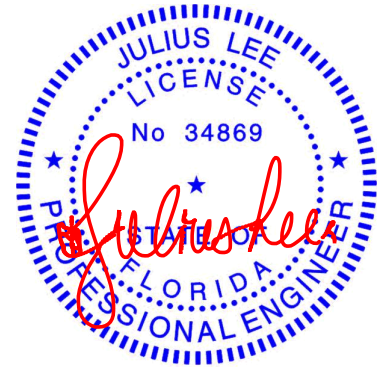
TOP CHORD 2-6=-208/281, 1-2=0/0, 2-3=-27/29, 3-5=0/0
BOT CHORD 5-6=-75/77, 4-5=0/0
WEBS 2-5=-60/60

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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 6 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 82 lb uplift at joint 6, 13 lb uplift at joint 3 and 2 lb uplift at joint 5.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



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

January 6, 2025

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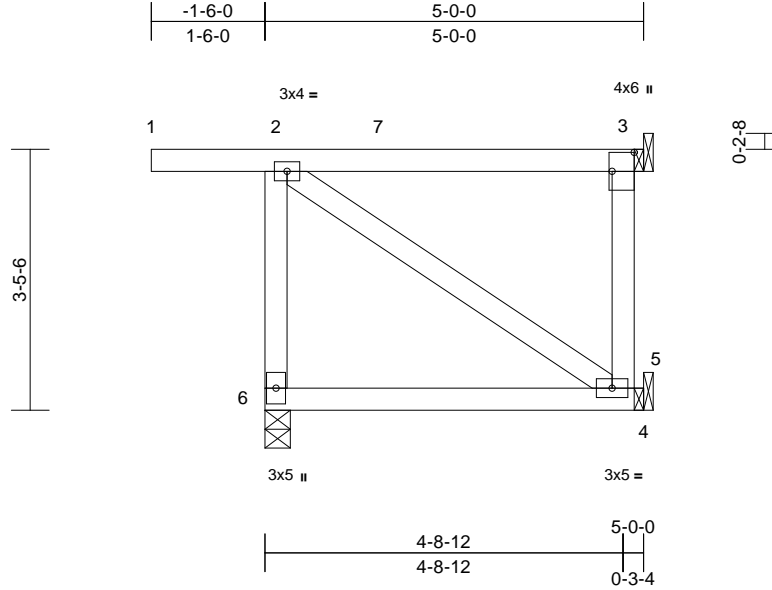
Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	T03	Roof Special	1	1	Job Reference (optional)	T35960474

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:41

Page: 1

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Scale = 1:30.4

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

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	0.46	Vert(LL)	-0.03	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 33 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 5= Mechanical,
6=0-4-0
Max Horiz 6=88 (LC 8)
Max Uplift 3=29 (LC 9), 6=87 (LC 8)
Max Grav 3=120 (LC 1), 5=103 (LC 3), 6=300 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

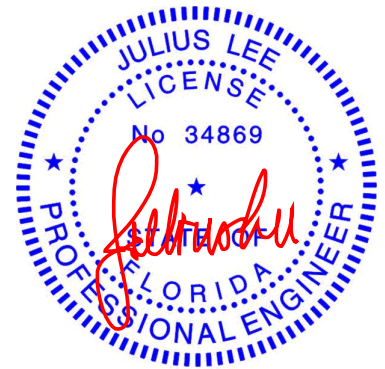
TOP CHORD 2-6=254/420, 1-2=0/0, 2-3=43/47, 3-5=0/0
BOT CHORD 5-6=118/122, 4-5=0/0
WEBS 2-5=92/92

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone2 1-6-0 to 1-8-12, Zone3 1-8-12 to 4-8-12 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) Provide adequate drainage to prevent water ponding.
- 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 6 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 87 lb uplift at joint
6 and 29 lb uplift at joint 3.
- 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) Gap between inside of top chord bearing and first
diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



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

January 6, 2025

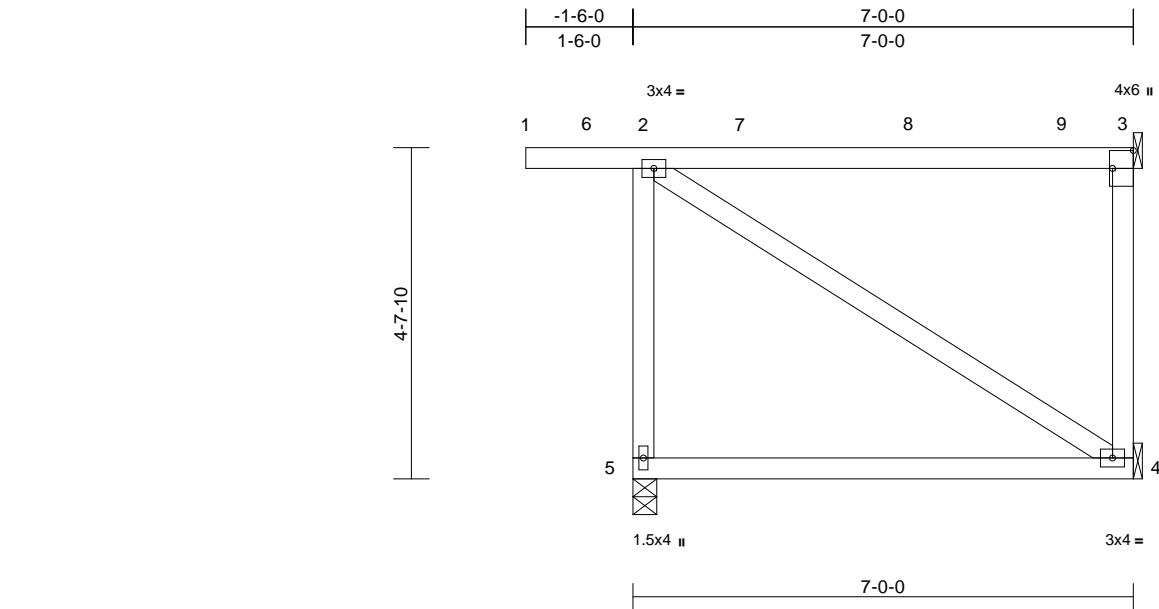
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	T04	Roof Special	1	1	Job Reference (optional)	T35960475



Scale = 1:32.2

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

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	0.62	Vert(LL)	-0.12	4-5	>663	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	4-5	>331	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 46 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)	3= Mechanical, 4= Mechanical,
		5=0-4-0
	Max Horiz	5=121 (LC 9)
	Max Uplift	3=46 (LC 9), 5=95 (LC 8)
	Max Grav	3=189 (LC 1), 4=134 (LC 3), 5=379 (LC 1)
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-5=-312/380, 1-2=0/0, 2-3=-59/64, 3-4=0/0	
BOT CHORD	4-5=-163/168	
WEBS	2-4=-124/124	

- NOTES**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone2 1-6-0 to 3-10-4, Zone3 3-10-4 to 6-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: , Joint 5 SP No.2 .
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 5 and 46 lb uplift at joint 3.
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S)** Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

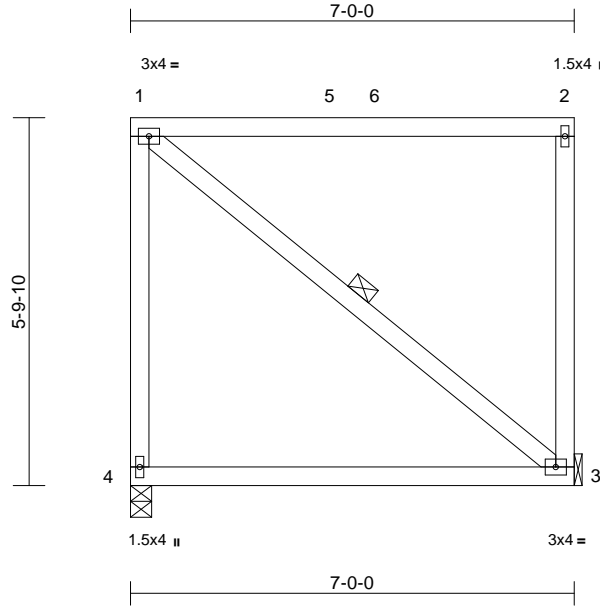
January 6,2025

Job	Truss	Truss Type	Qty	Ply	Revis	
1224-061	T05	Flat	1	1	Job Reference (optional)	T35960476

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

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.12	3-4	>663	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	3-4	>331	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-3

REACTIONS

(size) 3= Mechanical, 4=0-4-0
Max Horiz 4=-154 (LC 10)
Max Uplift 3=-70 (LC 9), 4=-70 (LC 8)
Max Grav 3=284 (LC 17), 4=284 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-217/328, 1-2=-75/81, 2-3=-201/220
BOT CHORD 3-4=-205/212
WEBS 1-3=-169/169

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,
Zone2 3-1-12 to 3-10-4, Zone3 3-10-4 to 6-10-4 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
- 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) Provide adequate drainage to prevent water ponding.
- 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 4 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 70 lb uplift at joint
4 and 70 lb uplift at joint 3.
 - 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



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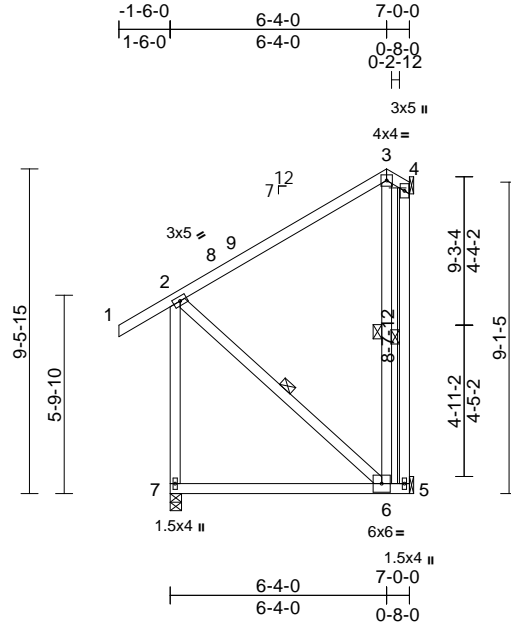
Job	Truss	Truss Type	Qty	Ply	Revis	T35960477
1224-061	T06	Common	2	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 03 12:45:41

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Scale = 1:67.4

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	0.72	Vert(LL)	0.15	6-7	>534	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.26	6-7	>305	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.17	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 71 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-6, 4-5, 2-6

REACTIONS	(size) 4= Mechanical, 5= Mechanical, 7=0-4-0
	Max Horiz 7=273 (LC 11)
	Max Uplift 4=-56 (LC 12), 5=-191 (LC 9), 7=-43 (LC 8)
	Max Grav 4=65 (LC 11), 5=338 (LC 17), 7=430 (LC 18)

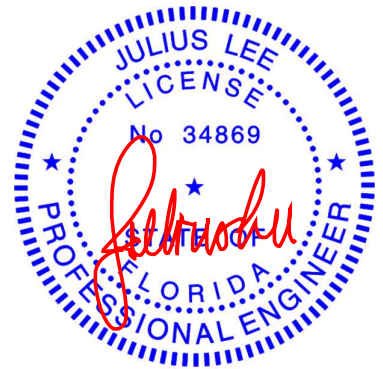
FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=0/50, 2-3=-194/178, 3-4=-150/169, 4-5=0/0, 2-7=-367/261
BOT CHORD	6-7=-453/354, 5-6=-124/135
WEBS	3-6=-280/257, 2-6=-348/498

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 7-6-0 to 10-6-0, Zone1 10-6-0 to 15-4-0, Zone3 15-4-0 to 15-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: , Joint 7 SP No.2 .
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 7, 191 lb uplift at joint 5 and 56 lb uplift at joint 4.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S)** Standard



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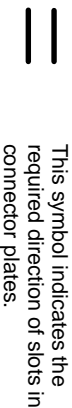
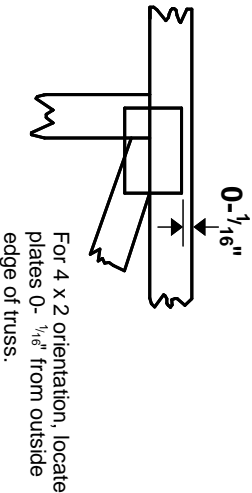
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

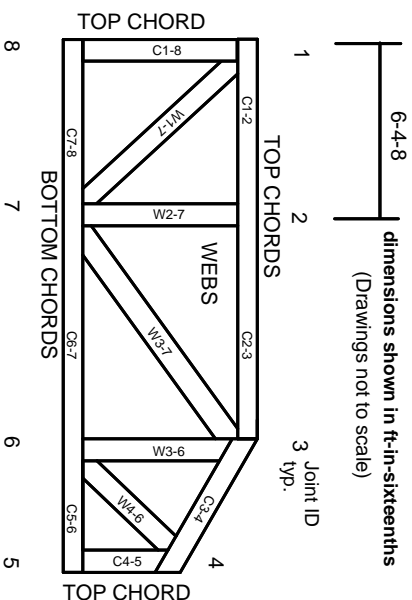
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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