



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

RE: 0424-025 - Garcia

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

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

Name: License #:
Address:
City: State:

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

Design Code: 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	T33540357	A01	4/14/24	23	T33540379	D06	4/14/24
2	T33540358	A02	4/14/24	24	T33540380	D07	4/14/24
3	T33540359	A03	4/14/24	25	T33540381	E01	4/14/24
4	T33540360	A04	4/14/24	26	T33540382	E02	4/14/24
5	T33540361	A05	4/14/24	27	T33540383	E03	4/14/24
6	T33540362	A06	4/14/24	28	T33540384	E04	4/14/24
7	T33540363	B01	4/14/24	29	T33540385	E05	4/14/24
8	T33540364	B02	4/14/24	30	T33540386	E06	4/14/24
9	T33540365	B03	4/14/24	31	T33540387	E07	4/14/24
10	T33540366	B04	4/14/24	32	T33540388	F01	4/14/24
11	T33540367	B05	4/14/24	33	T33540389	F02	4/14/24
12	T33540368	B06	4/14/24	34	T33540390	F03	4/14/24
13	T33540369	C01	4/14/24	35	T33540391	J01	4/14/24
14	T33540370	C02	4/14/24	36	T33540392	J02	4/14/24
15	T33540371	CJ01	4/14/24	37	T33540393	J03	4/14/24
16	T33540372	CJ02	4/14/24	38	T33540394	J04	4/14/24
17	T33540373	CJ03	4/14/24	39	T33540395	J05	4/14/24
18	T33540374	D01	4/14/24	40	T33540396	J06	4/14/24
19	T33540375	D02	4/14/24	41	T33540397	J07	4/14/24
20	T33540376	D03	4/14/24	42	T33540398	M01	4/14/24
21	T33540377	D04	4/14/24	43	T33540399	M02	4/14/24
22	T33540378	D05	4/14/24	44	T33540400	PB01	4/14/24

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

Truss Design Engineer's Name: Lee, Julius

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

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



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

April 15, 2024

Lee, Julius

1 of 2



RE: 0424-025 - Garcia

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

Site Information:

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

No.	Seal#	Truss Name	Date
45	T33540401	PB01GE	4/14/24
46	T33540402	PB02	4/14/24
47	T33540403	PB03	4/14/24
48	T33540404	PB04	4/14/24
49	T33540405	PB05GE	4/14/24
50	T33540406	PB06	4/14/24
51	T33540407	PB07	4/14/24
52	T33540408	PB08	4/14/24

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:09 Page: 1
ID:LYHrLfIXDRMb47ywiCnzRqL0-RfC?PsB70Hq3NSaPanL8w3uITXhGKWRcDoi7J4zJC?c



LUMBER		3) Unbalanced roof live loads have been considered for this design.	Vert: 3=-179 (F), 14=-281 (F), 13=-52 (F), 4=-119 (F), 5=-119 (F), 12=-52 (F), 11=-52 (F), 6=-119 (F), 7=-119 (F), 10=-52 (F), 16=-119 (F), 17=-119 (F), 18=-119 (F), 19=-119 (F), 20=-119 (F), 22=-119 (F),
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2	4) Wind: ASCE 7-22; Vult=130mph (3-second gust)	
WEBS	2x4 SP No.2	Vasd=101mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft;	

WEBS	1 Row at midpt	7-9
REACTIONS	(size)	9= Mechanical, 15=0-8-0
	Max Horiz	15=207 (LC 5)
	Max Uplift	9=376 (LC 8), 15=408 (LC 8)
	Max Grav	9=3454 (LC 13), 15=3387 (LC 13)

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); 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 15 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 376 lb uplift at joint
9 and 408 lb uplift at joint 15.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
(0.148"x3.25") toe-nails per NDS guidelines.
- 13) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 239
lb down and 142 lb up at 7-0-0 on top chord, and 343 lb
down and 40 lb up at 7-0-0 on bottom chord. The
design/selection of such connection device(s) is the
responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-8=-60, 9-15=-20
Concentrated Loads (lb)

Vert: 3=179 (F), 14=281 (F), 13=52 (F), 4=119 (F),
5=119 (F), 12=52 (F), 11=52 (F), 6=119 (F),
7=119 (F), 10=52 (F), 16=119 (F), 17=119 (F),
18=119 (F), 19=119 (F), 20=119 (F), 22=119 (F),
23=119 (F), 25=119 (F), 26=119 (F), 27=119 (F),
28=52 (F), 30=52 (F), 31=52 (F), 33=52 (F),
34=52 (F), 35=52 (F), 36=52 (F), 38=52 (F),
39=52 (F), 40=52 (F)



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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

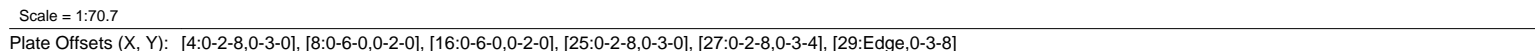
April 15, 2024



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-LS.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:10 Page: 1
ID:pkRDY?LH2rLHQWAGhfR6l zRqL?-RfC?PsB70Ha3NSaPqnL8w3uITXbGKWrCDoi7J4zJC?f



LUMBER		WEBS	4-28=9/180, 4-27=315/51, 27-30=0/502, 8-30=0/541, 8-43=40/411, 31-43=42/416, 26-31=28/226, 26-32=352/71, 12-32=318/64, 26-33=0/637, 33-38=42/834, 16-38=40/773, 25-34=242/96, 16-34=160/106, 20-25=27/503, 2-28=0/1166, 22-24=23/1251, 20-24=669/74, 5-46=279/94, 45-46=279/94, 30-45=279/94, 30-44=246/96, 31-44=246/96, 31-42=166/83, 41-42=166/83, 32-41=166/83, 32-35=166/82, 35-36=166/82, 33-36=166/82, 33-37=284/106, 34-37=284/106, 34-39=278/102, 39-40=278/102, 19-40=278/102, 13-35=31/17, 14-36=164/37, 15-38=72/27, 37-38=130/22, 17-39=29/13, 18-40=24/18, 11-41=4/15, 10-42=142/34, 9-43=92/12, 43-44=98/12, 7-45=14/1, 6-46=48/33
TOP CHORD	2x4 SP No.2		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.
BOT CHORD	2x4 SP No.2		5) Provide adequate drainage to prevent water ponding.
WEBS	2x4 SP No.2		6) All plates are 1.5x4 MT20 unless otherwise indicated.
OTHERS	2x4 SP No.2		7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
BRACING			8) Gable studs spaced at 2-0-0 oc.
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-11 max.): 8-16.		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	Rigid ceiling directly applied.		10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
WEBS	1 Row at midpt 4-27		11) Bearings are assumed to be: Joint 29 SP No.2 .
JOINTS	1 Brace at Jt(s): 30, 31, 32, 33, 34, 35		12) Refer to girder(s) for truss to truss connections.
REACTIONS	(size) 23= Mechanical, 29=0-8-0		13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 29.
	Max Horiz 29=273 (LC 11)		14) This truss design requires that a minimum of 7/16"
	Max Uplift 29=50 (LC 12)		
	Max Grav 23=1707 (LC 18), 29=1846 (LC 17)		
FORCES	(lb) - Maximum Compression/Maximum Tension		

- | | | | |
|-----------|--|---|---|
| TOP CHORD | 1-2=0/70, 2-5=-2178/98, 5-6=-1553/29,
6-7=-1528/55, 7-8=-1475/61, 8-9=-1397/91,
9-10=-1397/91, 10-11=-1397/91,
11-12=-1397/91, 12-13=-1395/91,
13-14=-1395/91, 14-15=-1395/91,
15-16=-1395/91, 16-17=-1225/76,
17-18=-1263/64, 18-19=-1301/40,
19-20=-1496/105, 20-22=-1255/93,
2-29=-1717/123, 22-23=-1632/61 | 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=37ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-8-6,
Zone1 1-8-6 to 13-4-11, Zone2 13-4-11 to 18-7-4, Zone1
18-7-4 to 27-8-5, Zone2 27-8-5 to 32-11-2, Zone1
32-11-2 to 36-10-10 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. | structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord. |
| BOT CHORD | 28-29=-222/681, 26-28=-110/1797,
24-26=-60/1242, 23-24=-43/60 | | |

Class design requires that a minimum of 1/16" of 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:

April 15, 2024

Continued on page 2

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

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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Job	Truss	Truss Type	Qty	Ply	Garcia
0424-025	A02	Piggyback Base Structural Gable	1	1	T33540358
Job Reference (optional)					

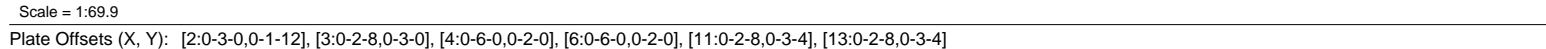
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

⚠ 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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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:10 Page: 1
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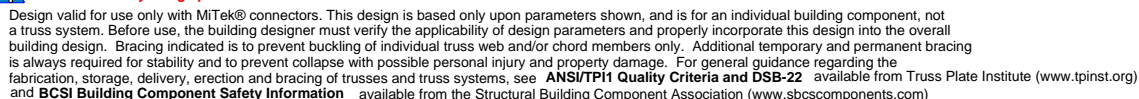


LUMBER		3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
TOP CHORD	2x4 SP No.2	4) Provide adequate drainage to prevent water ponding.
BOT CHORD	2x4 SP No.2	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	2x4 SP No.2	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.
BRACING		7) Bearings are assumed to be: Joint 15 SP No.2 .
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-9 max.): 4-6.	8) Refer to girder(s) for truss to truss connections.
BOT CHORD	Rigid ceiling directly applied.	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 15.
WEBS	1 Row at midpt 3-13, 5-12, 6-11	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.
REACTIONS	(size) 9= Mechanical, 15=0-8-0	11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
	Max Horiz 15=277 (LC 11)	
	Max Uplift 15=51 (LC 12)	
	Max Grav 9=1680 (LC 18), 15=1845 (LC 17)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/77, 2-4=-2076/129, 4-5=-1491/143, 5-6=-1491/143, 6-7=-1437/145, 7-8=-1203/99, 2-15=-1733/124, 8-9=-1602/59	
BOT CHORD	14-15=-198/349, 12-14=-123/1706, 10-12=-62/1111, 9-10=-49/66	
WEBS	3-14=-83/113, 3-13=-350/99, 4-13=0/546, 4-12=-27/325, 5-12=-516/100, 6-12=-16/759, 6-11=-193/75, 7-11=-1/432, 2-14=0/1385, 8-10=-19/1193, 7-10=-703/68	
LOAD CASE(S) Standard		

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 2-0-0 to 1-8-6,
Zone1 1-8-6 to 12-10-14, Zone2 12-10-14 to 18-1-10,
Zone1 18-1-10 to 28-2-3, Zone2 28-2-3 to 33-4-15,
Zone1 33-4-15 to 36-10-4 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate drip DOL=1.60



April 15, 2024



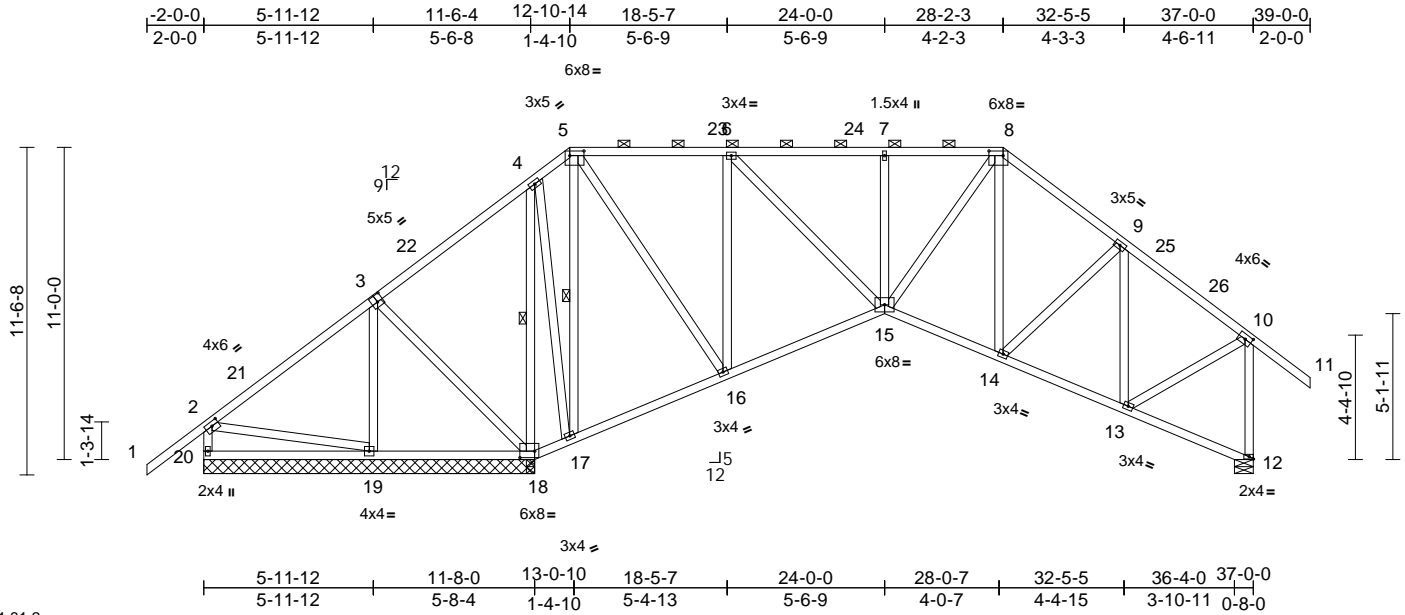
MiTek®
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540360
0424-025	A04	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:10
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Page: 1



Scale = 1:81.2

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [3:0-2-8,0-3-0], [5:0-6-0,0-2-0], [8:0-6-0,0-2-0], [10:0-2-14,0-2-0], [18:0-6-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.05	15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.11	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 295 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-8-14 max.): 5-8.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-18, 5-17

REACTIONS (size) 12=0-8-0, 18=11-8-0, 19=11-8-0, 20=11-8-0
Max Horiz 20=294 (LC 11)
Max Uplift 12=55 (LC 12), 20=76 (LC 12)
Max Grav 12=1055 (LC 24), 18=1625 (LC 1), 19=253 (LC 23), 20=314 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/77, 2-4=-91/360, 4-5=-70/188, 5-6=-458/100, 6-7=-951/63, 7-8=-951/63, 8-9=-939/78, 9-10=-788/78, 10-11=0/77, 2-20=-259/145, 10-12=-1015/101
BOT CHORD 19-20=-233/292, 18-19=-210/117, 17-18=-342/176, 16-17=-214/215, 15-16=0/526, 14-15=0/754, 13-14=-6/627, 12-13=-68/87
WEBS 3-19=-118/82, 3-18=-238/105, 4-18=-1252/34, 4-17=0/928, 5-17=-973/0, 8-15=0/481, 8-14=-106/89, 9-14=-8/197, 2-19=-209/118, 10-13=0/649, 7-15=-299/65, 9-13=-464/24, 6-15=0/697, 5-16=0/943, 6-16=-864/61

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-8-6, Zone1 1-8-6 to 12-10-14, Zone2 12-10-14 to 18-1-10, Zone1 18-1-10 to 28-2-3, Zone2 28-2-3 to 33-4-15, Zone1 33-4-15 to 39-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 20 and 55 lb uplift at joint 12.
- 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:

April 15,2024

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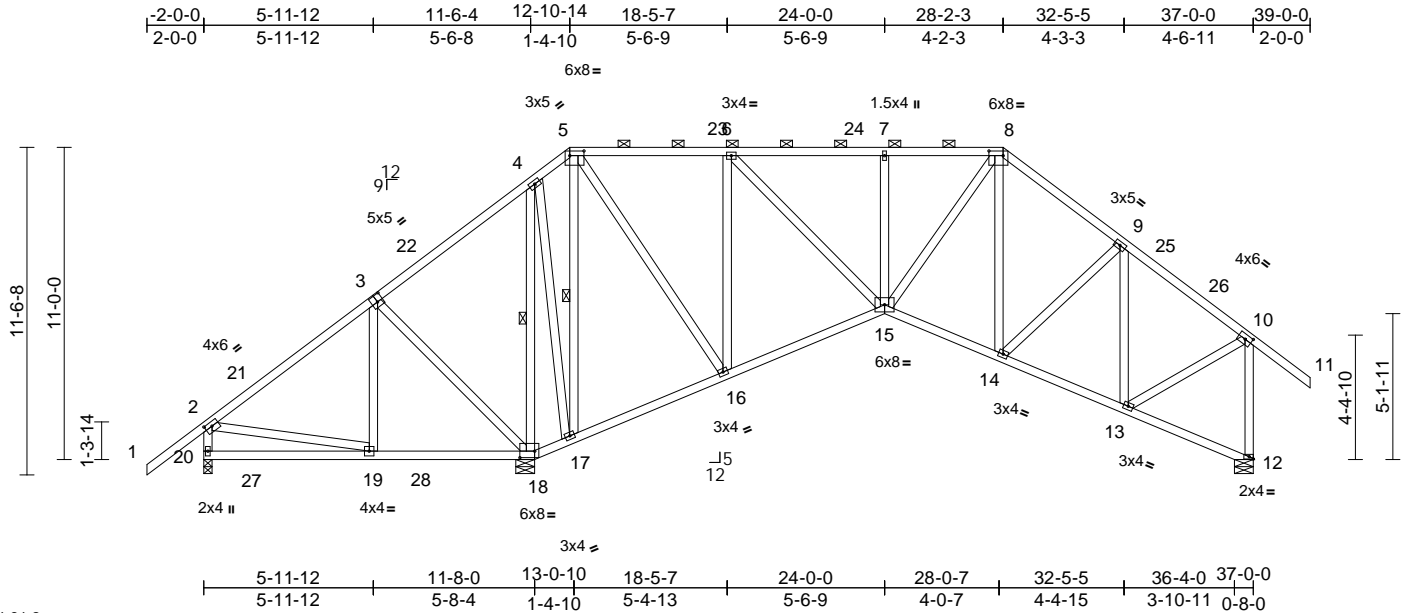
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540361
0424-025	A05	Piggyback Base	18	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:81.2

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [3:0-2-8,0-3-0], [5:0-6-0,0-2-0], [8:0-6-0,0-2-0], [10:0-2-14,0-2-0], [18:0-6-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.03	19-20	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.11	15-16	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.10	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 295 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-1 max.): 5-8.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-18, 5-17

REACTIONS (size) 12=0-8-0, 18=0-8-0, 20=0-3-8
Max Horiz 20=294 (LC 11)
Max Uplift 12=-49 (LC 12), 18=-91 (LC 12), 20=-159 (LC 12)
Max Grav 12=1052 (LC 24), 18=1773 (LC 1), 20=413 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

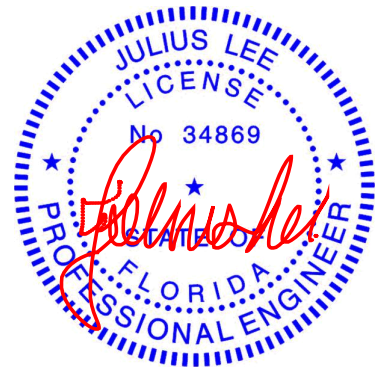
TOP CHORD 1-2=0/77, 2-4=-191/394, 4-5=-57/155, 5-6=-452/73, 6-7=-944/34, 7-8=-944/34, 8-9=-935/59, 9-10=-786/66, 10-11=0/77, 12-20=-358/230, 10-12=-1013/89
BOT CHORD 19-20=-259/267, 18-19=-213/129, 17-18=-349/223, 16-17=-221/248, 15-16=0/510, 14-15=0/750, 13-14=0/624, 12-13=-68/87
WEBS 3-19=-179/255, 3-18=-378/270, 4-18=-1269/6, 5-17=-978/0, 8-15=0/459, 8-14=-99/88, 9-14=-8/190, 2-19=-160/82, 10-13=0/647, 7-15=-299/66, 9-13=-462/15, 6-15=0/697, 5-16=0/943, 6-16=-864/61, 4-17=0/932

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=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-8-6, Zone1 1-8-6 to 12-10-14, Zone2 12-10-14 to 18-1-10, Zone1 18-1-10 to 28-2-3, Zone2 28-2-3 to 33-4-15, Zone1 33-4-15 to 39-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 .
- 8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 20, 91 lb uplift at joint 18 and 49 lb uplift at joint 12.
- 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:

April 15,2024

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

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

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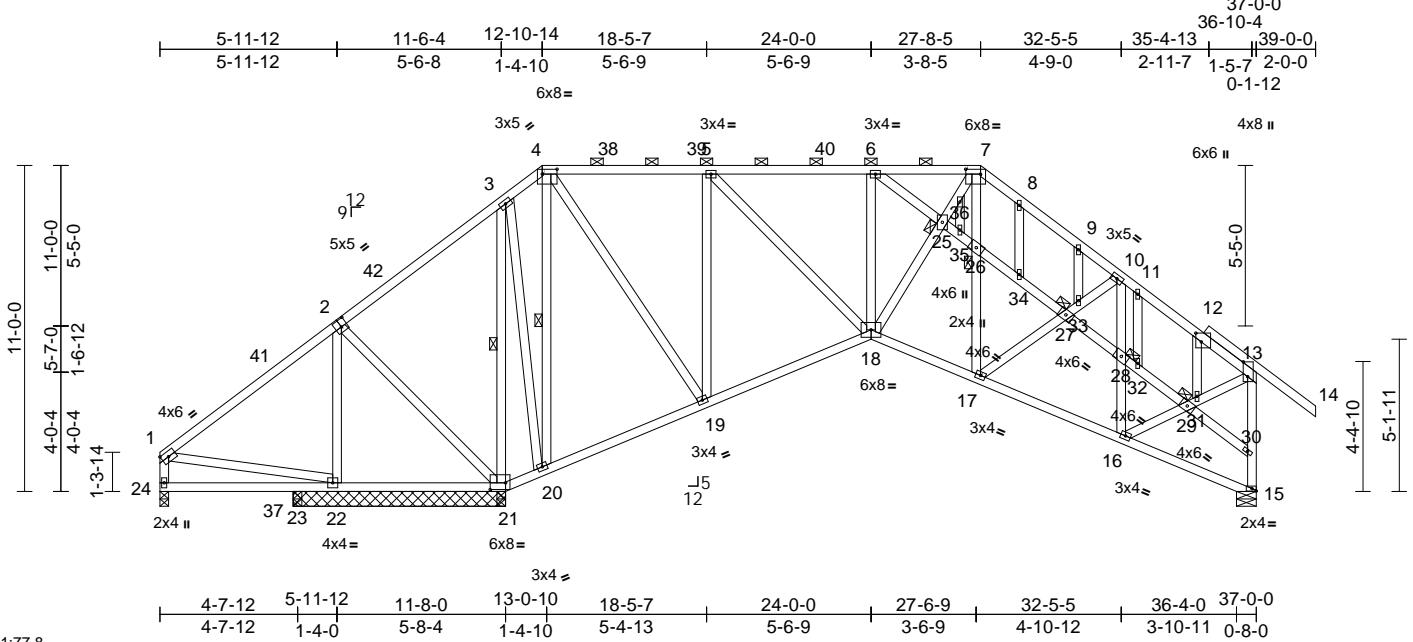
Job	Truss	Truss Type	Qty	Ply	Garcia	T33540362
0424-025	A06	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:11

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Job	Truss	Truss Type	Qty	Ply	Garcia
0424-025	A06	Piggyback Base Structural Gable	1	1	T33540362
					Job Reference (optional)

- 16) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 0 from left end and 20000 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.
- LOAD CASE(S)** Standard

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

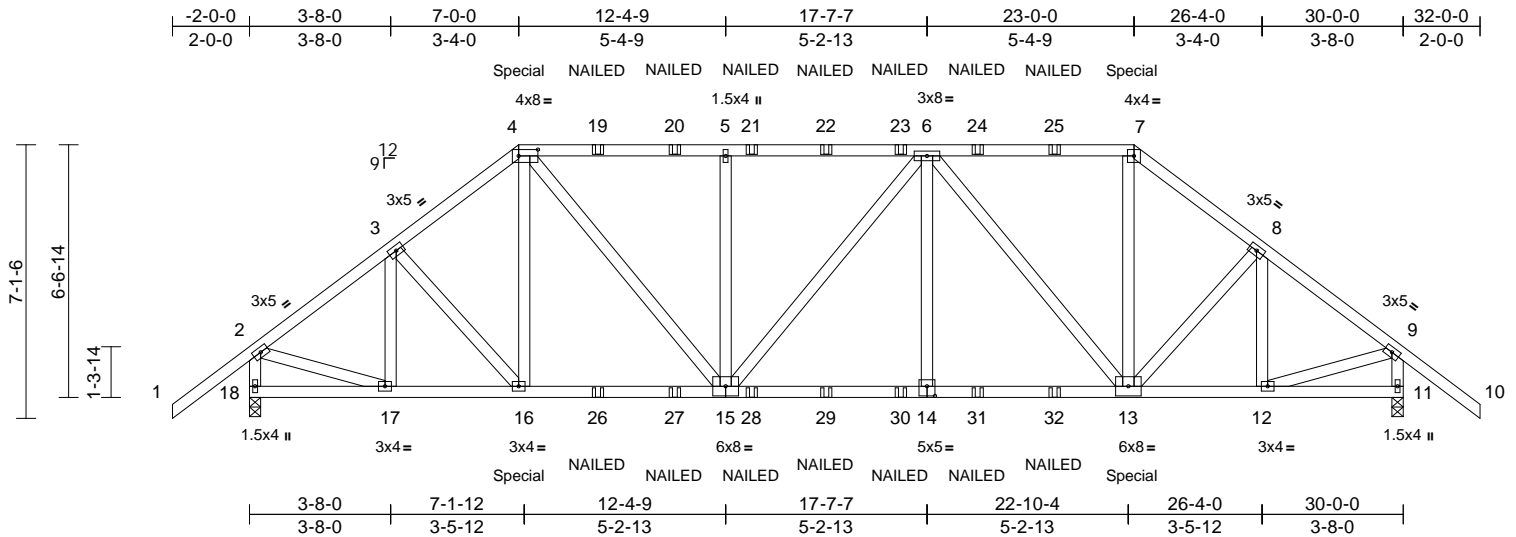
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540363
0424-025	B01	Hip Girder	1	2	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:11
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Page: 1



Scale = 1:59.9

Plate Offsets (X, Y): [4:0-6-0,0-2-0], [14:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.06	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.12	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 420 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 11=0-3-8, 18=0-3-8
Max Horiz 18=165 (LC 6)
Max Uplift 11=348 (LC 8), 18=348 (LC 8)
Max Grav 11=2458 (LC 14), 18=2458 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=2626/371, 3-4=2911/463, 4-5=3103/495, 5-6=3103/495, 6-7=2328/394, 7-8=2900/462, 8-9=2626/372, 9-10=0/77, 2-18=2408/368, 9-11=2408/369
BOT CHORD 17-18=100/182, 16-17=240/2130, 13-16=343/3142, 12-13=179/2040, 11-12=8/104
WEBS 4-16=0/383, 4-15=159/1270, 5-15=684/259, 6-15=28/29, 6-14=0/445, 6-13=1255/160, 7-13=62/1186, 2-17=238/2088, 9-12=238/2085, 3-16=94/398, 3-17=595/107, 8-13=93/401, 8-12=594/105

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 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=30ft; 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 348 lb uplift at joint 18 and 348 lb uplift at joint 11.
- "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) 239 lb down and 142 lb up at 7-0-0, and 239 lb down and 142 lb up at 23-0-0 on top chord, and 343 lb down and 40 lb up at 7-0-0, and 343 lb down and 40 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

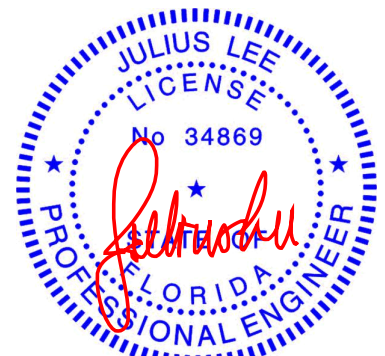
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 4-7=-60, 7-9=-60, 9-10=-60, 11-18=-20

Concentrated Loads (lb)

Vert: 4=-179 (B), 7=-179 (B), 16=-281 (B), 13=-281 (B), 19=-119 (B), 20=-119 (B), 21=-119 (B), 22=-119 (B), 23=-119 (B), 24=-119 (B), 25=-119 (B), 26=-52 (B), 27=-52 (B), 28=-52 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B), 32=-52 (B)



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

April 15, 2024

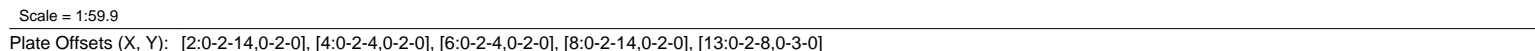
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:11 Page: 1
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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 5-14, 5-12

REACTIONS (size) 10=0-3-8, 16=0-3-8
Max Horiz 16=194 (LC 10)
Max Uplift 10=190 (LC 12), 16=190 (LC 12)
Max Grav 10=1574 (LC 18), 16=1574 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-1635/206, 3-4=-1560/261, 4-5=-1228/253, 5-6=-1228/253, 6-7=-1560/261, 7-8=-1636/206, 8-9=0/77, 2-16=-1491/247, 8-10=-1491/248
BOT CHORD 15-16=-123/226, 14-15=-48/1334, 12-14=0/1459, 11-12=-23/1218, 10-11=0/84
WEBS 3-14=-154/108, 4-12=-42/607, 5-14=-458/48, 5-13=0/342, 5-12=-457/47, 6-12=-42/607, 7-12=-154/108, 2-15=-71/1169, 8-11=-72/1169, 3-15=-159/71, 7-11=-159/71

- 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 190 lb uplift at joint 16 and 190 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



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=30ft; eave=4ft; Cat. II; Exp B; Partially
enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to
1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15,
Zone1 13-2-15 to 21-0-0, Zone2 21-0-0 to 25-4-4, Zone1
25-4-4 to 32-0-0 zone; cantilever left and right exposed ;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60

April 15, 2024



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

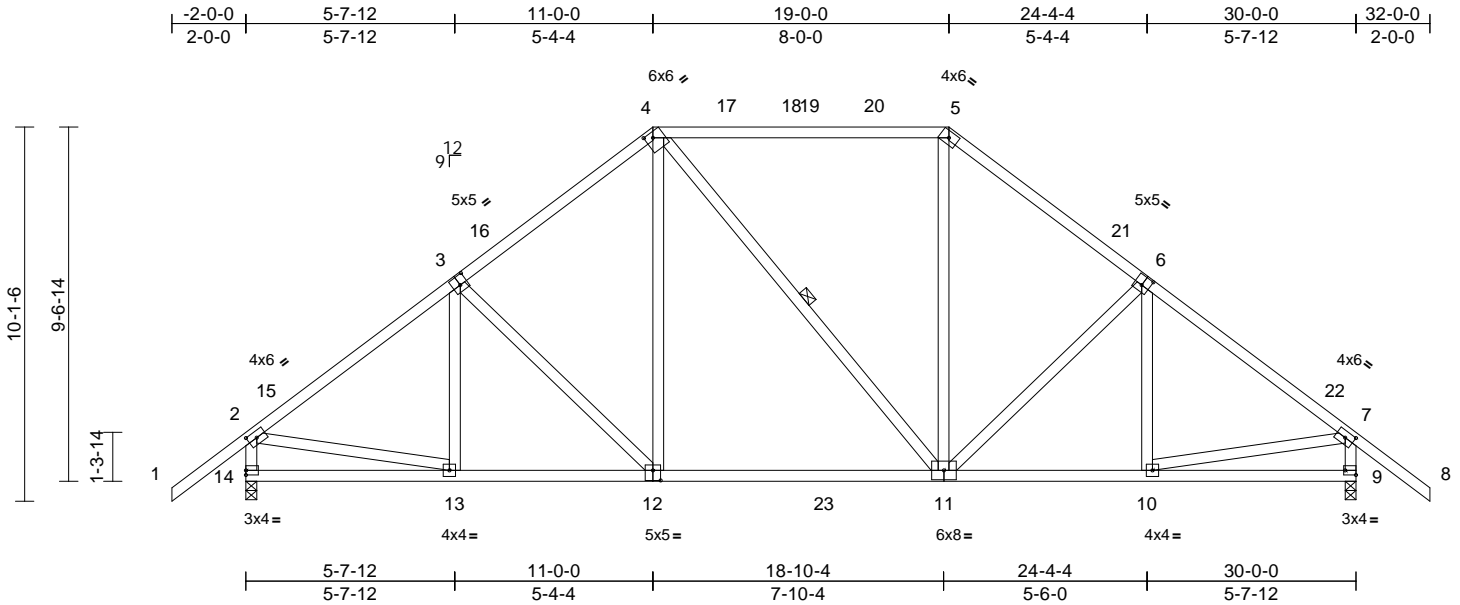
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540365
0424-025	B03	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12
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Page: 1



Scale = 1:62.3

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-2-8,0-3-0], [4:0-2-8,0-1-12], [6:0-2-8,0-3-0], [7:0-2-14,0-2-0], [9:Edge,0-1-8], [12:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.16	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.28	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 204 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 4-11

REACTIONS

(size) 9=0-3-8, 14=0-3-8
Max Horiz 14=224 (LC 11)
Max Uplift 9=190 (LC 12), 14=190 (LC 12)
Max Grav 9=1561 (LC 18), 14=1569 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=-1662/273, 4-5=-1151/272, 5-7=-1653/271, 7-8=0/77, 2-14=-1466/254, 7-9=-1459/254
BOT CHORD 13-14=-122/301, 10-13=-39/1361, 9-10=-7/145
WEBS 3-13=-93/71, 3-12=-275/136, 4-12=-13/502, 4-11=-103/108, 5-11=-5/453, 6-11=-282/136, 6-10=-91/72, 2-13=-47/1106, 7-10=-48/1105

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=30ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 190 lb uplift at joint 14 and 190 lb uplift at joint 9.
- 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:

April 15, 2024

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

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

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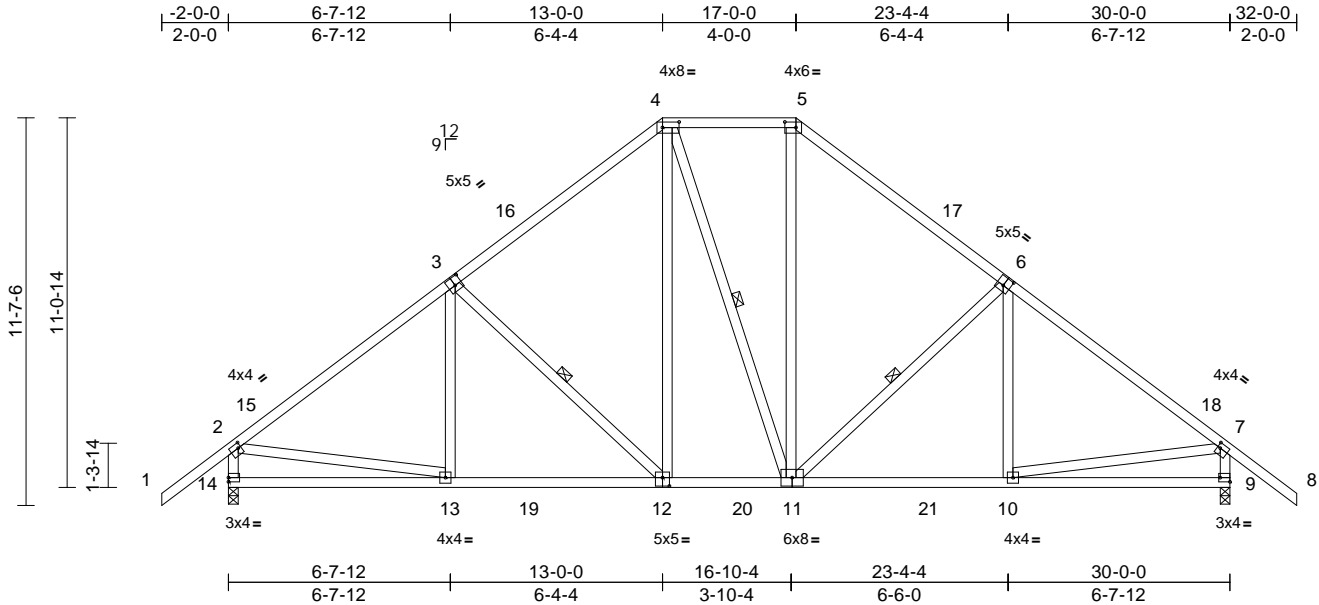
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540366
0424-025	B04	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12
ID:ynBjmaz1T2TY7wjzLP468nzRrAR-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:69

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.15	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 218 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-12, 4-11, 6-11

REACTIONS (size) 9=0-3-8, 14=0-3-8
Max Horiz 14=254 (LC 11)
Max Uplift 9=190 (LC 12), 14=190 (LC 12)
Max Grav 9=1579 (LC 18), 14=1581 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=1710/298, 4-5=1048/295, 5-7=1708/294, 7-8=0/77, 2-14=1475/263, 7-9=1473/258
BOT CHORD 13-14=133/367, 10-13=29/1409, 9-10=19/185
WEBS 3-13=20/191, 3-12=490/166, 4-12=57/538, 4-11=127/134, 5-11=58/513, 6-11=491/164, 6-10=20/193, 2-13=29/1114, 7-10=23/1117

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=30ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone3 13-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 190 lb uplift at joint 14 and 190 lb uplift at joint 9.
- 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:

April 15, 2024

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

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

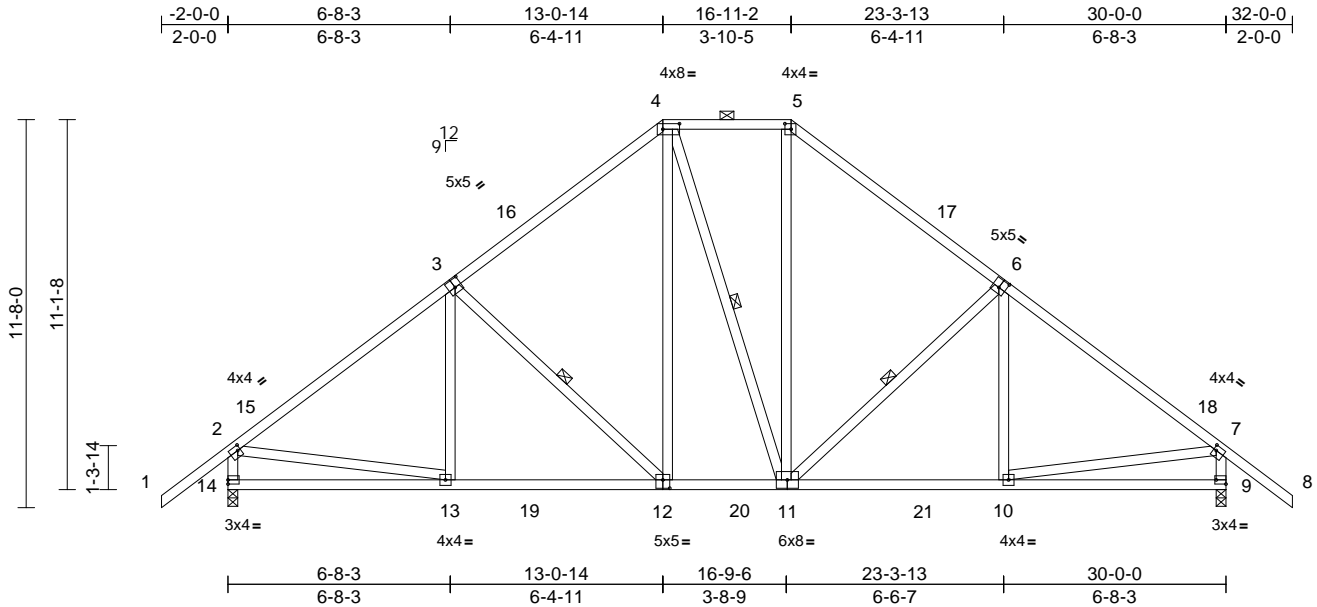
Job	Truss	Truss Type	Qty	Ply	Garcia	T33540367
0424-025	B05	Piggyback Base	5	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12

Page: 1

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Scale = 1:69.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.08	12-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.15	12-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 219 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-6 max.): 4-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 3-12, 4-11, 6-11

REACTIONS

(size) 9=0-3-8, 14=0-3-8
Max Horiz 14=255 (LC 10)
Max Uplift 9=190 (LC 12), 14=190 (LC 12)
Max Grav 9=1579 (LC 18), 14=1581 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=1710/298, 4-5=1044/295, 5-7=1708/293, 7-8=0/77, 2-14=-1474/263, 7-9=-1472/258
BOT CHORD 13-14=-133/369, 10-13=-28/1409, 9-10=-20/187
WEBS 3-13=-18/194, 3-12=-496/167, 4-12=-59/539, 4-11=-128/136, 5-11=-59/515, 6-11=-497/166, 6-10=-18/196, 2-13=-27/1113, 7-10=-22/1116

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=30ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-14, Zone3 13-0-14 to 16-11-2, Zone2 16-11-2 to 21-2-1, Zone1 21-2-1 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 190 lb uplift at joint 14 and 190 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

April 15, 2024

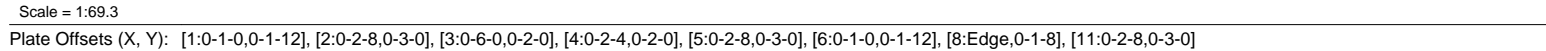
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

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Chesterfield, MO 63017
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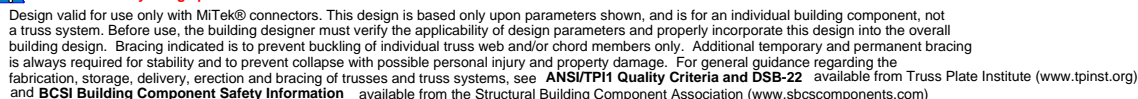
Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12 Page: 1
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LOAD CASE(S) Standard

- 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=30ft; eave=4ft; Cat. II; Exp B; Partially
 Enclosed; MWFRS (directional) and C-C Zone 3 0-1-12
 to 3-1-12, Zone1 3-1-12 to 13-0-14, Zone3 13-0-14 to
 16-11-2, Zone2 16-11-2 to 21-2-1, Zone1 21-2-1 to
 32-0-0 zone; cantilever left and right exposed ; end
 vertical left and right exposed;C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate rdl DOL=1.60



April 15, 2024



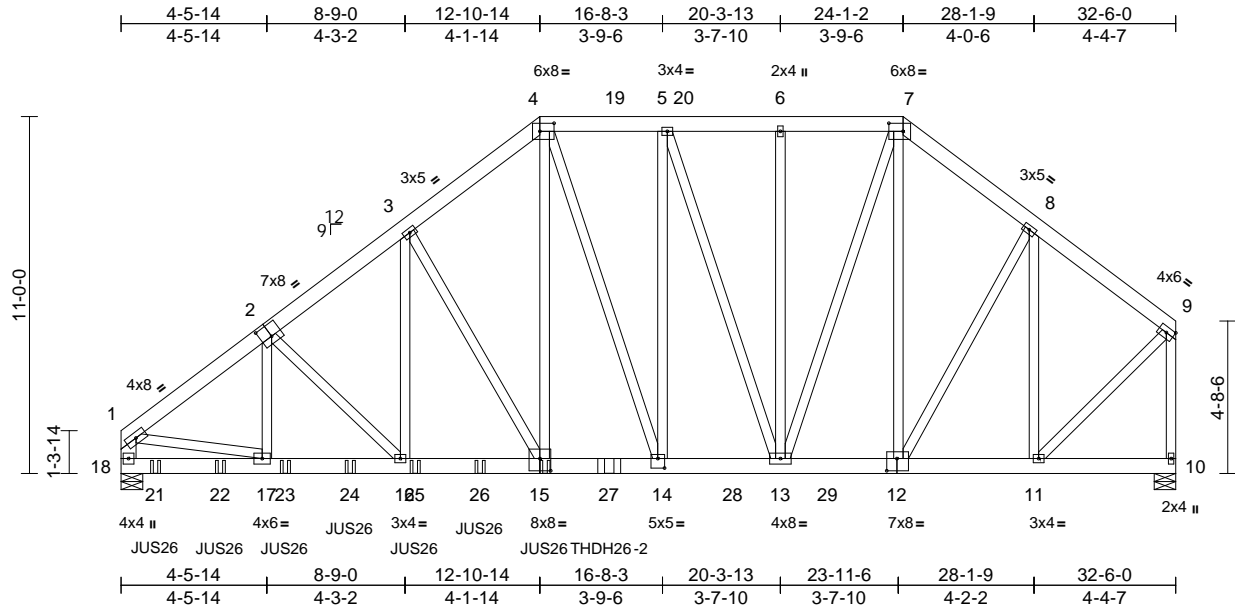
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540369
0424-025	C01	Piggyback Base Girder	1	3	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12
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Page: 1



Scale = 1:71

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-5-4,0-3-0], [7:0-5-4,0-3-0], [12:0-3-12,0-4-8], [14:0-2-8,0-3-8], [15:0-4-0,0-4-8]

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	0.18	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.15	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 1059 lb FT = 20%	

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 15-12:2x6 SP M 26
WEBS 2x4 SP No.2 *Except* 18-1:2x6 SP No.2

BRACING

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

REACTIONS (size) 10=0-8-0, 18=0-8-0
Max Horiz 18=252 (LC 7)
Max Uplift 10=201 (LC 8)
Max Grav 10=4176 (LC 14), 18=6822 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-7839/296, 3-4=-6853/493, 4-5=-5311/434, 5-6=-4159/350, 6-7=-4159/350, 7-8=-3906/327, 8-9=-2927/216, 1-18=-6076/0, 9-10=-4098/225
BOT CHORD 17-18=-98/922, 16-17=0/6311, 14-16=-287/6149, 13-14=-295/5370, 11-13=-139/3060, 10-11=-36/49
WEBS 4-15=-195/4219, 7-12=-1085/118, 1-17=0/5530, 9-11=-116/3219, 3-15=-1448/0, 2-17=0/484, 2-16=-361/0, 3-16=0/1470, 8-12=-102/1608, 8-11=-2198/139, 7-13=-213/3401, 5-14=-227/3197, 4-14=-482/0, 5-13=-3567/260, 6-13=-219/50

NOTES

- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.148"x3") nails as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Web chords connected with 10d (0.131"x3") nails 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, 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 201 lb uplift at joint 10.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 13-0-12 to connect truss(es) to front face of bottom chord.
- Use MiTek THD26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 15-0-8 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

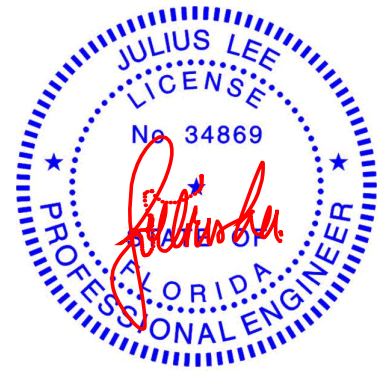
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 7-9=-60, 10-18=-20

Concentrated Loads (lb)

Vert: 15=-627 (F), 21=-628 (F), 22=-627 (F), 23=-627 (F), 24=-627 (F), 25=-627 (F), 26=-627 (F), 27=-3427 (F)



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

April 15, 2024

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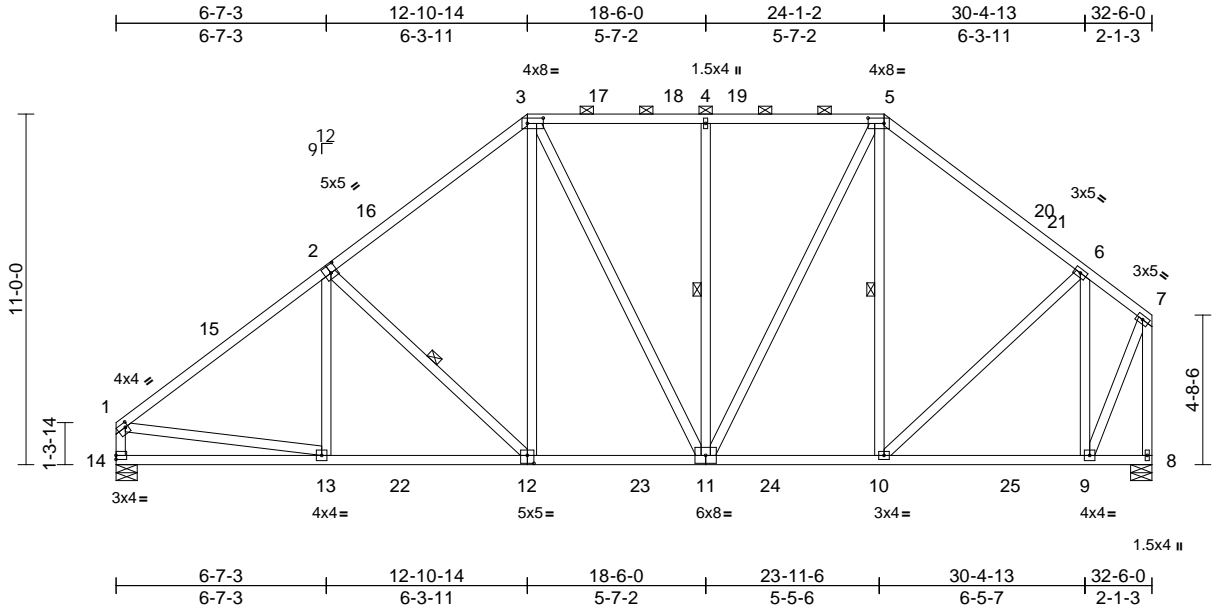
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540370
0424-025	C02	Piggyback Base	5	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:12
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Page: 1



Scale = 1:72.3									
Plate Offsets (X, Y): [1:0-1-0,0-1-12], [2:0-2-8,0-3-0], [3:0-6-0,0-2-0], [5:0-6-0,0-2-0], [12:0-2-8,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.07	11-12	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.14	12-13	>999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	8	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS					
					Weight: 252 lb		FT = 20%		

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

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

REACTIONS (size) 8=0-8-0, 14=0-8-0
Max Horiz 14=257 (LC 11)
Max Grav 8=1489 (LC 18), 14=1503 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1800/140, 3-4=-1129/146, 4-5=-1129/146, 5-6=-1219/132, 6-7=-648/87, 1-14=-1395/63, 7-8=-1512/21
BOT CHORD 13-14=-198/368, 10-13=-132/1492, 9-10=-72/519, 8-9=-66/75
WEBS 2-13=-41/158, 2-12=-416/98, 3-12=0/543, 3-11=-61/179, 4-11=-362/64, 5-11=-18/577, 5-10=-179/65, 6-10=0/566, 6-9=-930/140, 1-13=0/1160, 7-9=-63/1246

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 0-1-12 to 3-4-12, Zone1 3-4-12 to 12-10-14, Zone2 12-10-14 to 17-6-0, Zone1 17-6-0 to 24-1-2, Zone2 24-1-2 to 28-8-5, Zone1 28-8-5 to 32-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

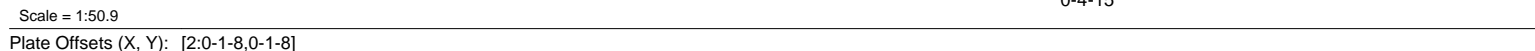
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent 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 .
- 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 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 15,2024

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:13 Page: 1
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LUMBER		5) Bearings are assumed to be: , Joint 8 SP No.2 .
TOP CHORD	2x4 SP No.2	6) Refer to girder(s) for truss to truss connections.
BOT CHORD	2x4 SP No.2	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint
WEBS	2x4 SP No.2	

BRACING		8, 59 lb uplift at joint 4 and 50 lb uplift at joint 5.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

REACTIONS		LOAD CASE(S)	
(size)	4= Mechanical, 5= Mechanical, 8=0-9-2	Standard	
Max Horiz	8=201 (LC 8)	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Max Uplift	4=59 (LC 8), 5=-50 (LC 8), 8=-229 (LC 8)	Uniform Loads (lb/ft)	
Max Grav	4=148 (LC 13), 5=312 (LC 13), 8=512 (LC 13)	Vert: 1-2=-60, 2-4=-60, 5-8=-20	
FORCES	(lb) - Maximum Compression/Maximum Tension	Concentrated Loads (lb)	
		Vert: 9=126 (F=63, B=63), 11=-64 (F=-32, B=-32), 12=60 (F=30, B=30), 13=14 (F=7, B=7), 14=-36 (F=-18, B=-18)	

FORCES	(lb) - Maximum Compression/Maximum Tension	12=60 (F=30, B=30), 13=14 (F=7, B=7), 14=36 (F=18, B=18)
TOP CHORD	2-8=-507/182, 1-2=0/84, 2-3=-447/89, 3-4=-118/58	
BOT CHORD	7-8=-334/22, 6-7=-114/351, 5-6=0/0	
WEBS	2-7=0/548, 3-7=0/203, 3-6=-444/144	



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.



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

April 15, 2024



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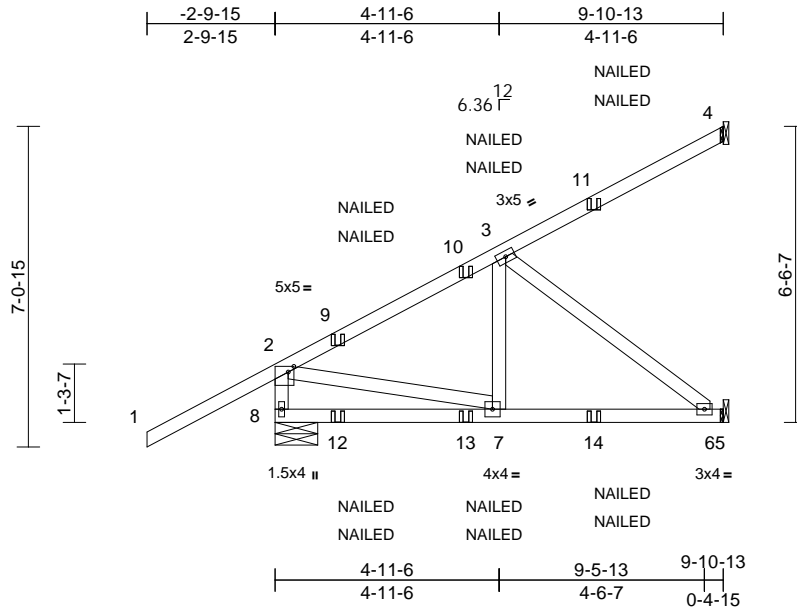
Job	Truss	Truss Type	Qty	Ply	Garcia	T33540372
0424-025	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:13

Page: 1

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Scale = 1:50.9

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

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	0.70	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	4= Mechanical, 5= Mechanical, 8=0-11-5
Max Horiz	8=201 (LC 8)
Max Uplift	4=-59 (LC 8), 5=-50 (LC 8), 8=-229 (LC 8)
Max Grav	4=148 (LC 13), 5=312 (LC 13), 8=512 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-8=-507/182, 1-2=0/84, 2-3=-447/89, 3-4=-118/58
BOT CHORD	7-8=-334/22, 6-7=-114/351, 5-6=0/0
WEBS	2-7=0/548, 3-7=0/203, 3-6=-444/144

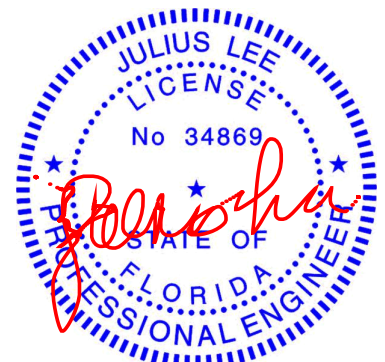
NOTES

- 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 8 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 229 lb uplift at joint 8, 59 lb uplift at joint 4 and 50 lb uplift at joint 5.
- 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: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=126 (F=63, B=63), 11=-64 (F=-32, B=-32), 12=60 (F=30, B=30), 13=14 (F=7, B=7), 14=-36 (F=-18, B=-18)



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

April 15, 2024

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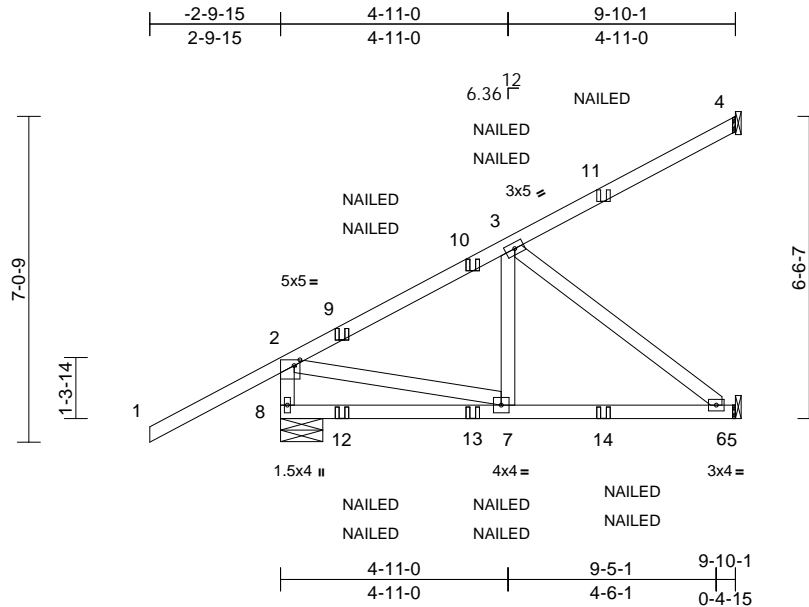
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540373
0424-025	CJ03	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:49.8

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

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	0.70	Vert(LL)	0.05	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.11	6-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.01	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 58 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 8=0-10-15
Max Horiz 8=201 (LC 8)
Max Uplift 4=-46 (LC 8), 5=-106 (LC 8), 8=-263 (LC 8)
Max Grav 4=135 (LC 19), 5=407 (LC 13), 8=549 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-562/222, 1-2=0/84, 2-3=-507/124, 3-4=-97/51
BOT CHORD 7-8=-319/23, 6-7=-154/409, 5-6=0/0
WEBS 2-7=-18/552, 3-7=-33/238, 3-6=-519/196

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 8 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 263 lb uplift at joint
8, 46 lb uplift at joint 4 and 106 lb uplift at joint 5.
- 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: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=126 (F=63, B=63), 11=-32 (F), 12=58 (F=29,
B=29), 13=2 (F=7, B=5), 14=-173 (F=-18, B=-155)



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

April 15, 2024

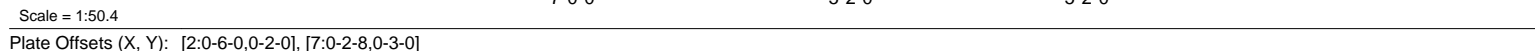
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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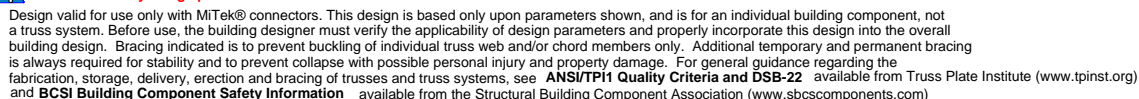
LUMBER		4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	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.
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
BRACING		6) Provide adequate drainage to prevent water ponding.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	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.
REACTIONS		9) Bearings are assumed to be: , Joint 5 SP No.2 .
	(size) 5=0-8-0, 8= Mechanical	10) Refer to girder(s) for truss to truss connections.
	Max Horiz 8=187 (LC 7)	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 5 and 160 lb uplift at joint 8.
	Max Uplift 5=243 (LC 5), 8=160 (LC 8)	
	Max Grav 5=1466 (LC 13), 8=1247 (LC 13)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1506/261, 2-3=-970/204, 3-4=-970/204, 4-5=-1386/277, 1-8=-1184/195	
BOT CHORD	6-8=-267/1162, 5-6=-58/70	
WEBS	2-7=0/536, 2-6=-294/96, 3-6=-702/277, 4-6=-263/1514, 1-7=-168/1015	

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 2=-169 (F), 7=-370 (F), 4=-13 (F), 10=-119 (F),
12=-119 (F), 13=-119 (F), 14=-119 (F), 15=-52 (F),
16=-52 (F), 17=-52 (F), 18=-52 (F)



April 15, 2024



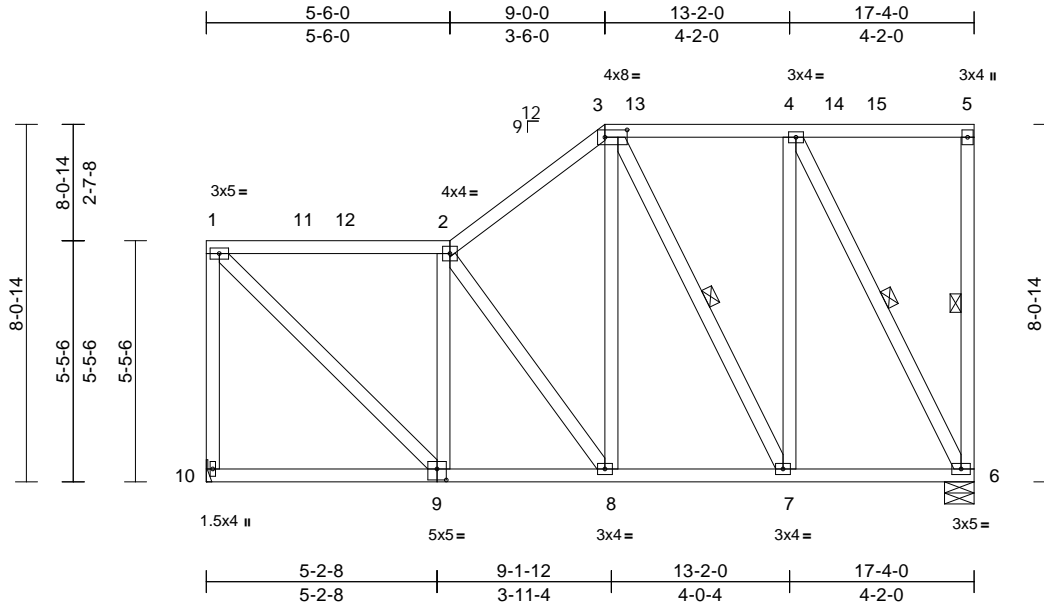
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540375
0424-025	D02	Roof Special	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:52

Plate Offsets (X, Y): [3:0-6-0,0-2-0], [9:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 145 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 5-6, 4-6, 3-7

REACTIONS

(size) 6=0-8-0, 10= Mechanical
Max Horiz 10=223 (LC 9)
Max Uplift 6=52 (LC 9), 10=3 (LC 8)
Max Grav 6=682 (LC 1), 10=682 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

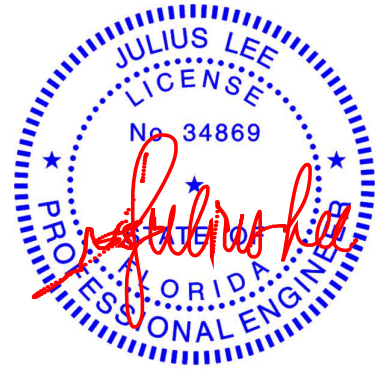
TOP CHORD 1-10=-631/127, 1-2=-485/44, 2-3=-541/98,
3-4=-298/118, 4-5=-115/121, 5-6=-100/49
BOT CHORD 8-10=-327/592, 7-8=-201/456, 6-7=-143/340
WEBS 1-9=-99/664, 2-9=-381/140, 2-8=-244/111,
3-8=-50/280, 4-6=-614/145, 4-7=-31/316,
3-7=-245/124

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,
Zone1 3-1-12 to 9-0-0, Zone2 9-0-0 to 13-2-0, Zone1
13-2-0 to 17-2-4 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
- 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 3 lb uplift at joint
10 and 52 lb uplift at joint 6.
- 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:

April 15,2024

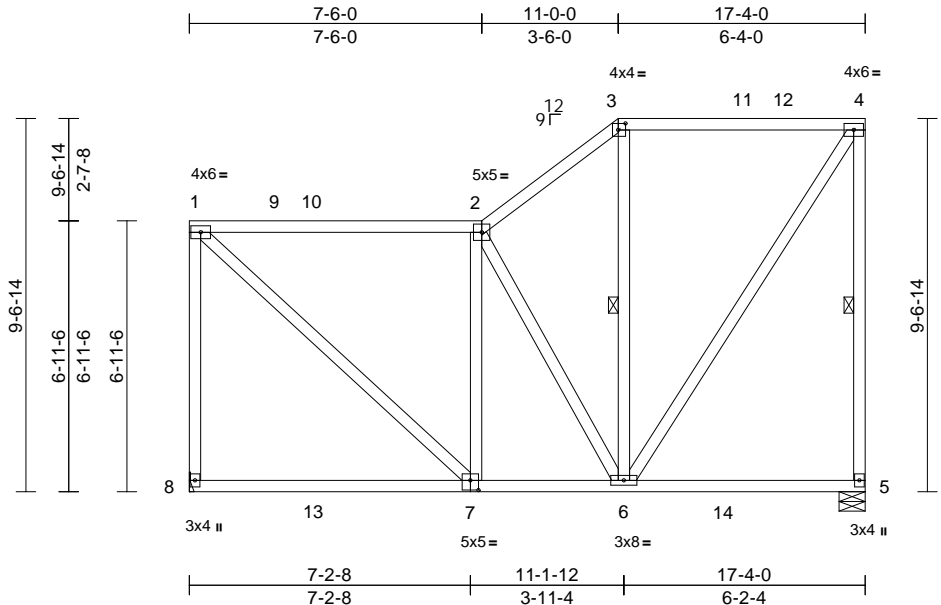
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540376
0424-025	D03	Roof Special	1	1	Job Reference (optional)	



Scale = 1:59.1

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

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	0.59	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.18	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 139 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 4-5, 3-6
REACTIONS	
(size)	5=0-8-0, 8= Mechanical
Max Horiz	8=265 (LC 9)
Max Uplift	5=-69 (LC 9), 8=-29 (LC 8)
Max Grav	5=837 (LC 17), 8=819 (LC 18)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-8=-662/157, 1-2=-525/56, 2-3=-527/122, 3-4=-365/114, 4-5=-694/211
BOT CHORD	6-8=-372/591, 5-6=-120/139
WEBS	1-7=-126/698, 2-7=-280/184, 2-6=-415/128, 3-6=-87/140, 4-6=-192/652

- 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 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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.
 - 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 29 lb uplift at joint 8 and 69 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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 15,2024

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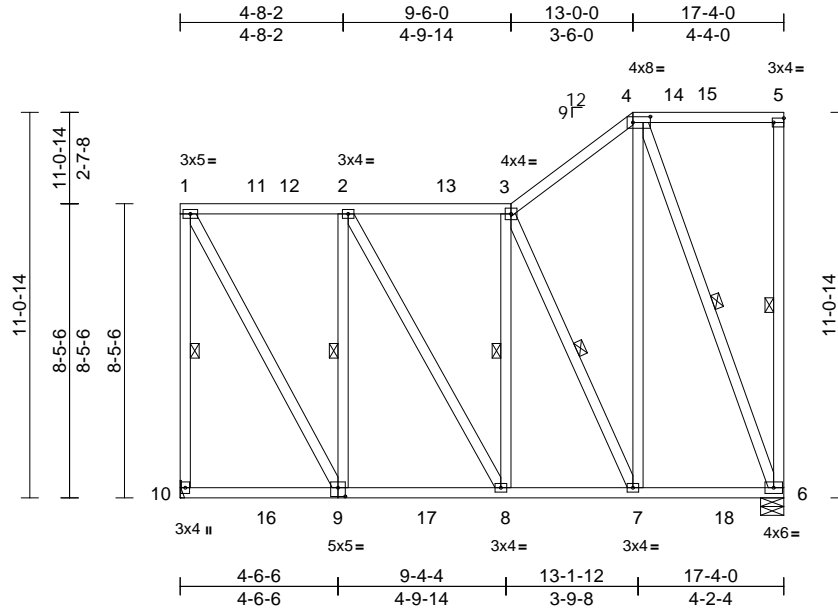
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540377
0424-025	D04	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:13
ID:vMcvPzmcsCjCbmmMyg4l9OzRqxC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.2

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

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	0.59	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 175 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	1-10, 5-6, 3-8, 3-7, 4-6, 2-9	

REACTIONS	(size)	6=0-8-0, 10= Mechanical
	Max Horiz	10=307 (LC 11)
	Max Uplift	6=-87 (LC 9), 10=-55 (LC 8)
	Max Grav	6=852 (LC 17), 10=859 (LC 18)

FORCES

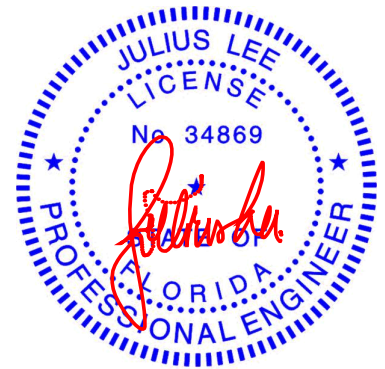
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-10=-766/157, 1-2=-374/76, 2-3=-464/71, 3-4=-420/142, 4-5=-149/161, 5-6=-128/103
BOT CHORD	8-10=-415/525, 7-8=-239/490, 6-7=-181/325
WEBS	2-8=-116/219, 3-8=-116/164, 3-7=-503/144, 4-7=-60/617, 4-6=-729/228, 2-9=-458/207, 1-9=-141/767

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 13-0-0, Zone3 13-0-0 to 17-2-4 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 6 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 55 lb uplift at joint 10 and 87 lb uplift at joint 6.
- 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



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

April 15,2024

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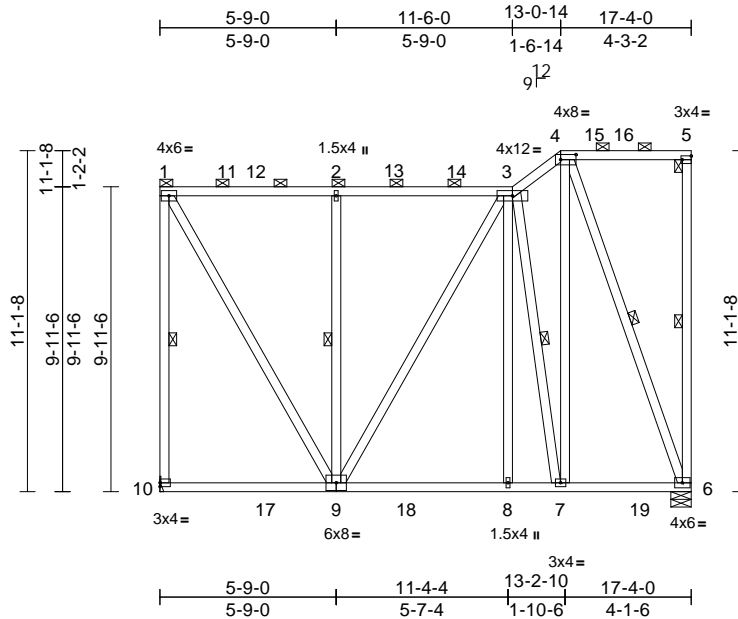
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540378
0424-025	D05	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14
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Page: 1



Scale = 1:75.2

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

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	0.60	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.08	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 188 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 1-10, 5-6, 2-9, 3-7, 4-6

REACTIONS (size) 6=0-8-0, 10= Mechanical
Max Horiz 10=305 (LC 9)
Max Uplift 6=-96 (LC 9), 10=-83 (LC 8)
Max Grav 6=869 (LC 17), 10=872 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

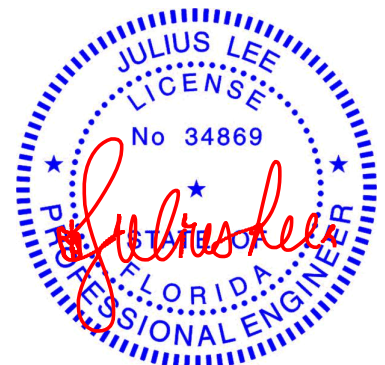
TOP CHORD 1-10=-751/194, 1-2=-381/93, 2-3=-381/93, 3-4=-408/155, 4-5=-150/161, 5-6=-127/108
BOT CHORD 8-10=-383/398, 7-8=-195/396, 6-7=-173/324
WEBS 1-9=-178/737, 2-9=-394/121, 3-9=-192/210, 3-8=0/189, 3-7=-590/138, 4-7=-105/696, 4-6=-743/209

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,
Zone1 3-1-12 to 13-0-14, Zone3 13-0-14 to 17-2-4 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
- 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, with BCDL = 10.0psf.
- 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 83 lb uplift at joint
10 and 96 lb uplift at joint 6.
- 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:

April 15, 2024

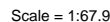
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14 Page: 1
ID:R dpu3M 4 c6bSazuATAxzRwQ-RfC?PsB70Hq3NSqPanL8w3uITXhGKWKRCDoi7J4zJC?f

[illegible]

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.

WEBS	1 Row at midpt	1-10, 3-8, 2-9
------	----------------	----------------

(size) 6=0-8-0, 10= Mechanical
Max Horiz 10=-326 (LC 8)
Max Uplift 10=-105 (LC 8)
Max Grav 6=811 (LC 17), 10=869 (LC 18)

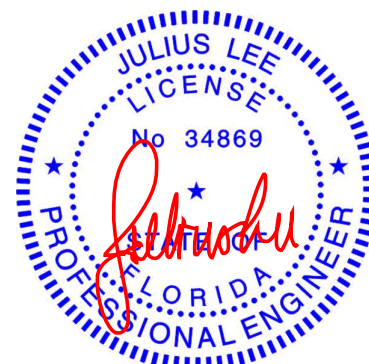
(lb) - Maximum Compression/Maximum Tension

1-10=-771/222, 1-2=-279/167, 2-3=-340/159,
3-4=-540/149, 4-5=-386/51, 5-6=-830/80
8-10=-376/445, 7-8=-88/320, 6-7=-71/77
2-8=-215/342, 3-8=-115/122, 4-8=-153/212,
4-7=-398/162, 5-7=-91/693, 2-9=-532/306,
1-9=-223/729

- 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,
 Zone1 3-1-12 to 8-4-0, Zone2 8-4-0 to 12-6-15, Zone1
 12-6-15 to 17-2-4 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 gr 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, with BCDL = 10.0psf.
- 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 105 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:

April 15, 2024

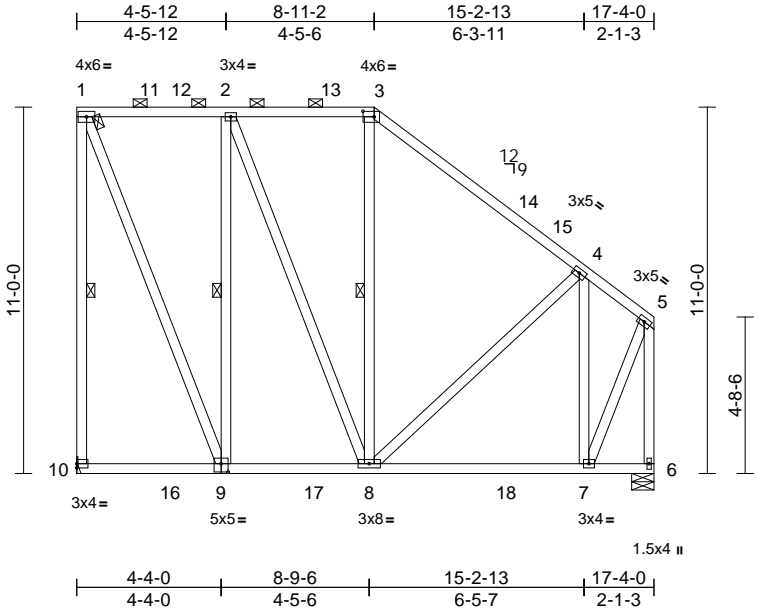


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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540380
0424-025	D07	Piggyback Base	1	1	Job Reference (optional)	

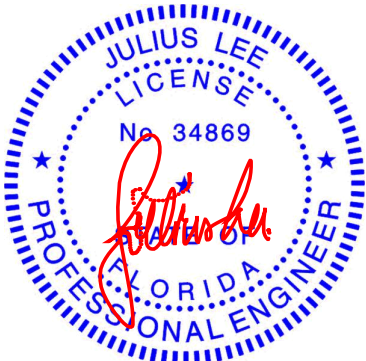


Scale = 1:69.2									
Plate Offsets (X, Y): [3:0-4-0,0-2-0], [9:0-2-8,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.05	7-8	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.09	7-8	>999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	6	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS					n/a
							PLATES	GRIP	
							MT20	244/190	
							Weight: 169 lb FT = 20%		

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 1-10, 3-8, 2-9
REACTIONS	
(size)	6=0-8-0, 10= Mechanical
Max Horiz	10=313 (LC 8)
Max Uplift	10=98 (LC 8)
Max Grav	6=807 (LC 17), 10=863 (LC 18)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-10=-763/215, 1-2=-298/163, 2-3=-354/153, 3-4=-543/143, 4-5=-353/50, 5-6=-830/77
BOT CHORD	8-10=-362/430, 7-8=-87/292, 6-7=-70/77
WEBS	2-8=-200/296, 3-8=-100/109, 4-8=-116/205, 4-7=-435/172, 5-7=-100/706, 2-9=-497/289, 1-9=-210/724

- 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, Zone1 3-1-12 to 8-11-2, Zone2 8-11-2 to 13-2-1, Zone1 13-2-1 to 17-2-4 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
 - 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, with BCDL = 10.0psf.
 - 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 98 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



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

April 15,2024

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

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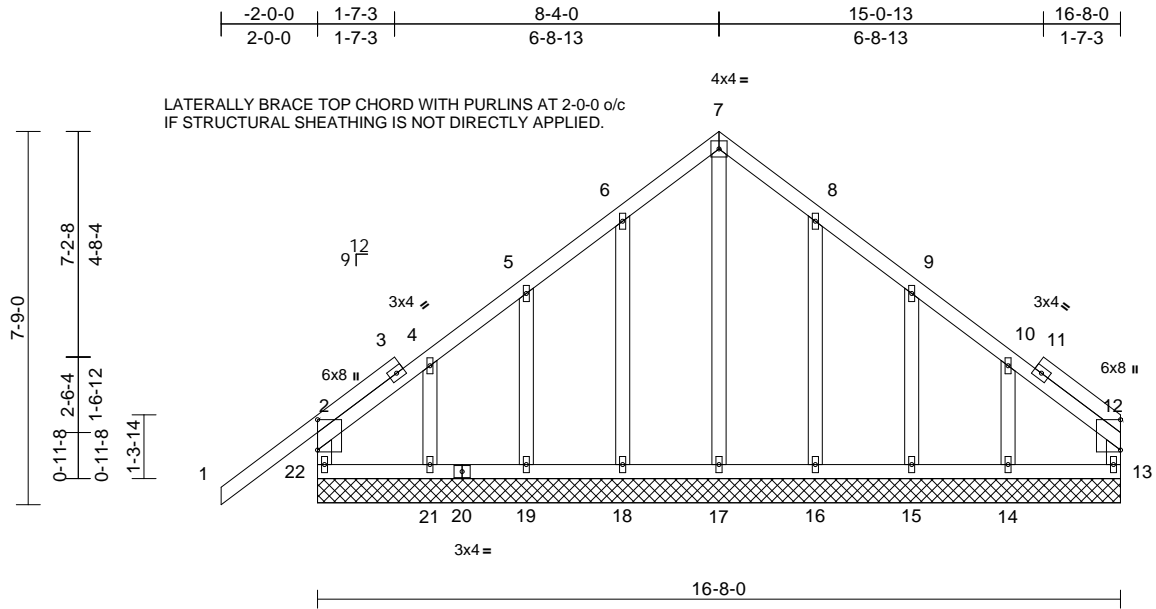
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540381
0424-025	E01	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14
ID:2woDfc?jky3BlyFsfyub0vzRqt0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:47.8

Plate Offsets (X, Y): [2:0-7:9,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	0.30	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	13	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 111 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	13=16-8-0, 14=16-8-0, 15=16-8-0, 16=16-8-0, 17=16-8-0, 18=16-8-0, 19=16-8-0, 21=16-8-0, 22=16-8-0
Max Horiz	22=159 (LC 11)
Max Uplift	13=-4 (LC 11), 14=-40 (LC 12), 15=-28 (LC 12), 16=-21 (LC 12), 18=-20 (LC 12), 19=-30 (LC 12), 21=-33 (LC 9), 22=-64 (LC 12)
Max Grav	13=102 (LC 17), 14=210 (LC 18), 15=158 (LC 18), 16=172 (LC 18), 17=158 (LC 12), 18=171 (LC 17), 19=168 (LC 1), 21=145 (LC 17), 22=274 (LC 1)

FORCES

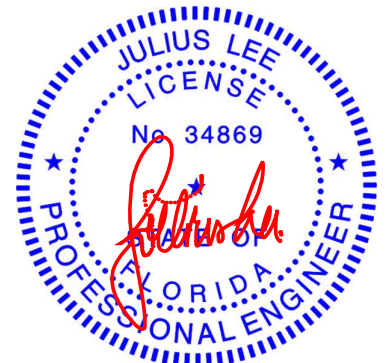
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-22=-250/162, 1-2=0/71, 2-4=-116/78, 4-5=-75/77, 5-6=-91/158, 6-7=-126/226, 7-8=-126/226, 8-9=-90/157, 9-10=-61/81, 10-12=-76/78, 12-13=-76/12
BOT CHORD	21-22=-64/65, 19-21=-64/65, 18-19=-64/65, 17-18=-64/65, 16-17=-64/65, 15-16=-64/65, 14-15=-64/65, 13-14=-64/65
WEBS	7-17=-200/55, 6-18=-130/90, 5-19=-130/111, 4-21=-106/95, 8-16=-131/91, 9-15=-123/104, 10-14=-151/121

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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" o.c.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 22, 4 lb uplift at joint 13, 20 lb uplift at joint 18, 30 lb uplift at joint 19, 33 lb uplift at joint 21, 21 lb uplift at joint 16, 28 lb uplift at joint 15 and 40 lb uplift at joint 14.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

April 15, 2024

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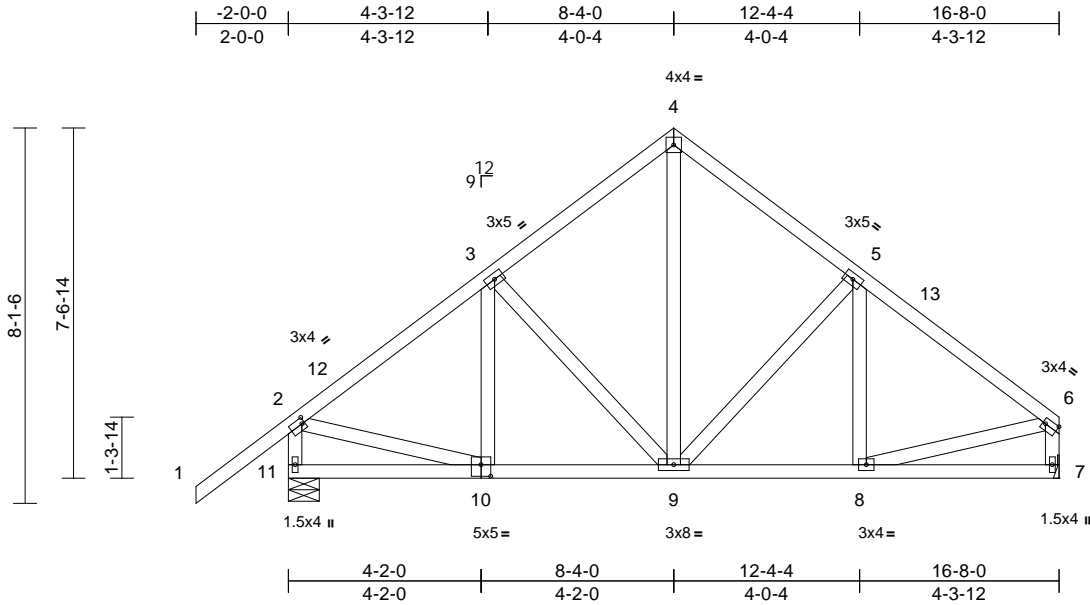
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540382
0424-025	E02	Common	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14
ID:pSHFKL5ksQ42iAsP7d1TLbzRqsu-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.03	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 113 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 7= Mechanical, 11=0-8-0

Max Horiz 11=169 (LC 11)
Max Uplift 11=54 (LC 12)
Max Grav 7=647 (LC 1), 11=792 (LC 1)

FORCES

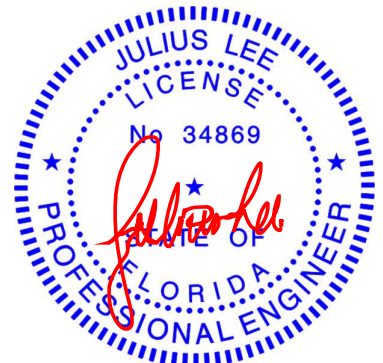
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=677/77, 3-4=541/126, 4-5=543/145, 5-6=694/96, 2-11=752/176, 6-7=603/98
BOT CHORD 9-11=130/507, 8-9=29/499, 7-8=43/79
WEBS 2-10=8/500, 6-8=0/438, 3-10=51/76, 3-9=187/91, 4-9=76/347, 5-9=213/95, 5-8=34/83

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-4-0, Zone2 8-4-0 to 12-4-4, Zone1 12-4-4 to 16-6-4 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) 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 11 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 54 lb uplift at joint 11.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

April 15, 2024

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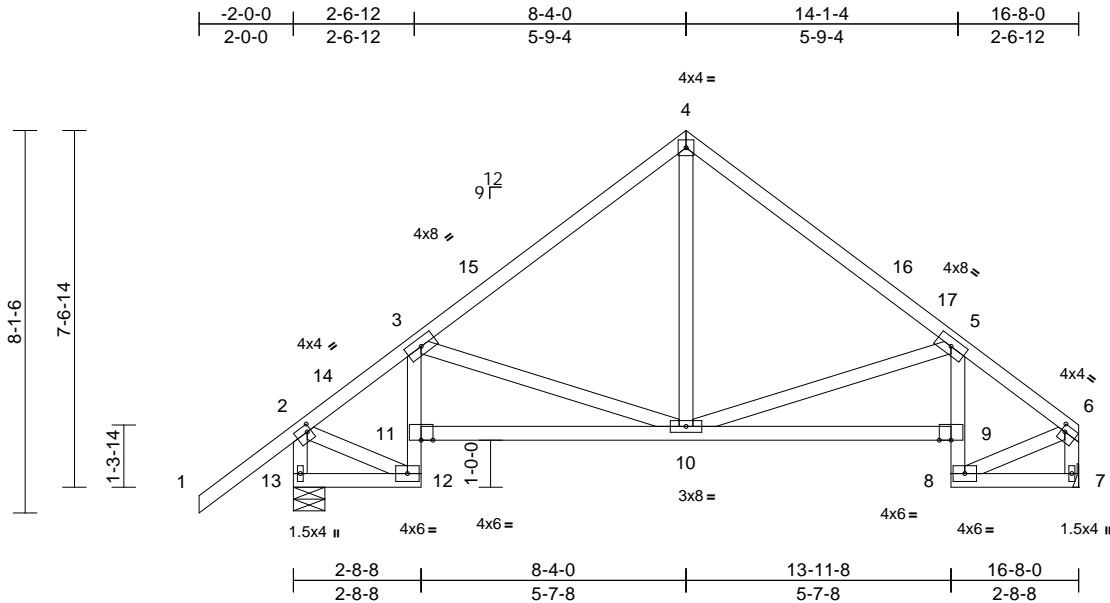
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540383
0424-025	E03	Roof Special	3	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14
ID:d?WVrM_Og76KM81YaQvcg9zRqMm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:48.9

Plate Offsets (X, Y): [2:0-1-0,0-1-12], [5:0-0-0,0-0-0], [6:0-1-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.11	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.13	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 103 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) 7= Mechanical, 13=0-8-0

Max Horiz 13=169 (LC 11)
Max Uplift 13=54 (LC 12)
Max Grav 7=647 (LC 1), 13=792 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=647/77, 3-4=673/105, 4-5=674/127, 5-6=681/95, 2-13=834/161, 6-7=692/98
BOT CHORD 12-13=150/111, 11-12=149/34, 3-11=114/62, 10-11=109/769, 9-10=90/750, 8-9=130/30, 5-9=96/63, 7-8=14/26
WEBS 3-10=326/141, 4-10=10/410, 5-10=343/131, 2-12=33/577, 6-8=53/538

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 2-0-0 to 1-0-0, Zone1 1-0-0 to 8-4-0, Zone2 8-4-0 to 12-6-15, Zone1 12-6-15 to 16-6-4 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.

- 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 13 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 54 lb uplift at joint 13.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

April 15, 2024

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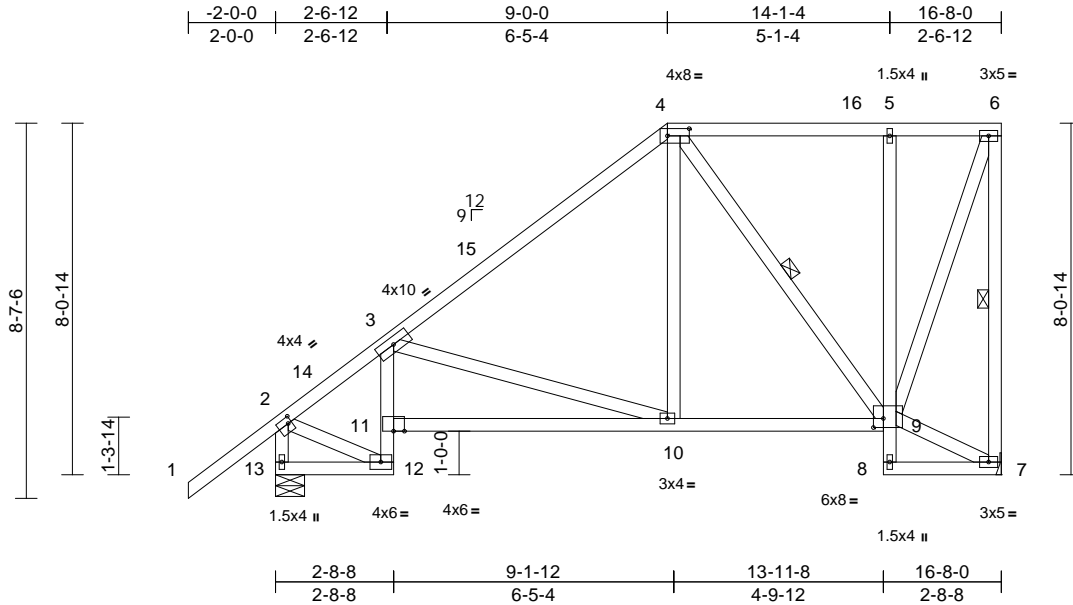
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540384
0424-025	E04	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:14
ID:zzJou42XUflcTwwWM_VnNDzRqMh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.06	10-11	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.14	10-11	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.08	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 133 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 6-7, 4-9

REACTIONS

(size) 7= Mechanical, 13=0-8-0
Max Horiz 13=252 (LC 9)
Max Uplift 7=52 (LC 9), 13=46 (LC 12)
Max Grav 7=647 (LC 1), 13=792 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/77, 2-3=-651/22, 3-4=-638/69,
4-5=-220/100, 5-6=-214/98, 6-7=-613/124,
2-13=-837/106

BOT CHORD 12-13=-321/251, 11-12=-153/37,
3-11=-101/71, 10-11=-406/821,
9-10=-193/452, 8-9=-40/75, 5-9=-270/90,
7-8=-34/35

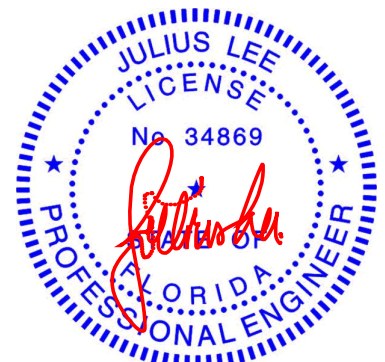
WEBS 3-10=-403/221, 4-10=0/344, 4-9=-363/115,
7-9=-156/168, 6-9=-148/603, 2-12=-23/592

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 2-0-0 to 1-0-0,
Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1
13-2-15 to 16-6-4 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 13 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 52 lb uplift at joint 7 and 46 lb uplift at joint 13.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

April 15, 2024

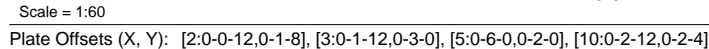
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:15 Page: 1
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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

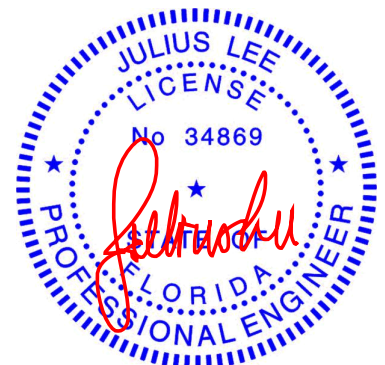
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-10
WEBS 1 Row at midpt 7-8, 5-10

REACTIONS (size) 8= Mechanical, 15=0-8-0
Max Horiz 15=298 (LC 9)
Max Uplift 8=65 (LC 9), 15=43 (LC 12)
Max Grav 8=647 (LC 1), 15=792 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=-719/51, 4-5=-441/115,
5-6=-207/118, 6-7=-204/117, 7-8=-613/155,
2-15=-832/108
BOT CHORD 14-15=-388/304, 13-14=-153/27,
3-13=-129/43, 12-13=-405/767,
11-12=-266/569, 10-11=-184/365,
9-10=-63/96, 6-10=-182/95, 8-9=-41/50
WEBS 5-11=-48/369, 5-10=-387/126,
8-10=-192/196, 7-10=-189/577, 2-14=0/552,
3-12=-222/153, 4-11=-394/130, 4-12=-29/256

- 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 15 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 65 lb uplift at joint 8 and 43 lb uplift at joint 15.
- 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



April 15, 2024

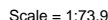


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:15 Page: 1
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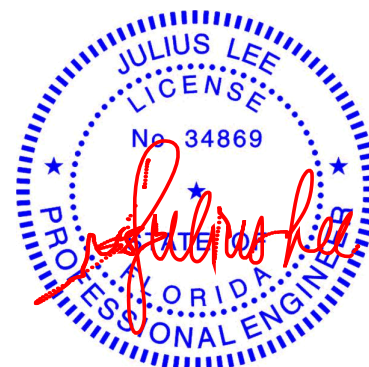
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- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss 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 15 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 80 lb uplift at joint 8 and 39 lb uplift at joint 15.
- 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

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 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 13-0-0, Zone3 13-0-0 to 16-6-4 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



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

April 15, 2024

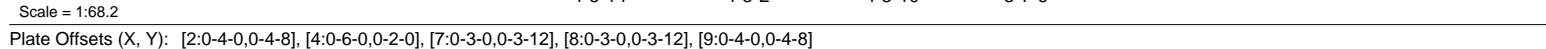


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LUMBER		3) Unbalanced roof live loads have been considered for this design.	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
TOP CHORD	2x6 SP No.2 *Except* 4-5:2x4 SP No.2	4) Wind: ASCE 7-22; Vult=130mph (3-second gust)	Uniform Loads (lb/ft)
BOT CHORD	2x6 SP No.2	Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;	Vert: 1-4=-60, 4-5=-60, 6-10=-20
WEBS	2x4 SP No.2	B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;	Concentrated Loads (lb)
BRACING		MWFRS (directional); cantilever left and right exposed ;	Vert: 12=-163 (F), 13=-1190 (F), 14=-662 (F),
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.	end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60	15=-662 (F), 16=-662 (F), 17=-662 (F), 18=-662 (F), 19=-662 (F)

FORCES	(lb) - Maximum Compression/Maximum Tension	3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.	
TOP CHORD	1-3=-3987/204, 3-4=-1424/119, 4-5=-8/1, 5-6=-104/23, 1-10=-3072/154	9) Bearings are assumed to be: Joint 10 SP No.2 .	
BOT CHORD	8-10=-346/3185, 7-8=-235/2304, 6-7=-123/1140	10) Refer to girder(s) for truss to truss connections.	
WEBS	4-7=-377/3948, 4-6=-3515/379, 1-9=-94/2776, 3-7=-2417/232, 2-9=-82/1374, 2-8=-1246/157, 3-8=-173/2696	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 6 and 130 lb uplift at joint 10.	
		12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or	


- 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 0-8-0 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.

bottom chord.

 - Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 3-7-8 from the left end to connect truss(es) to front face of bottom chord.
 - Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-6-12 from the left end to 15-6-12 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard



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



April 15, 2024

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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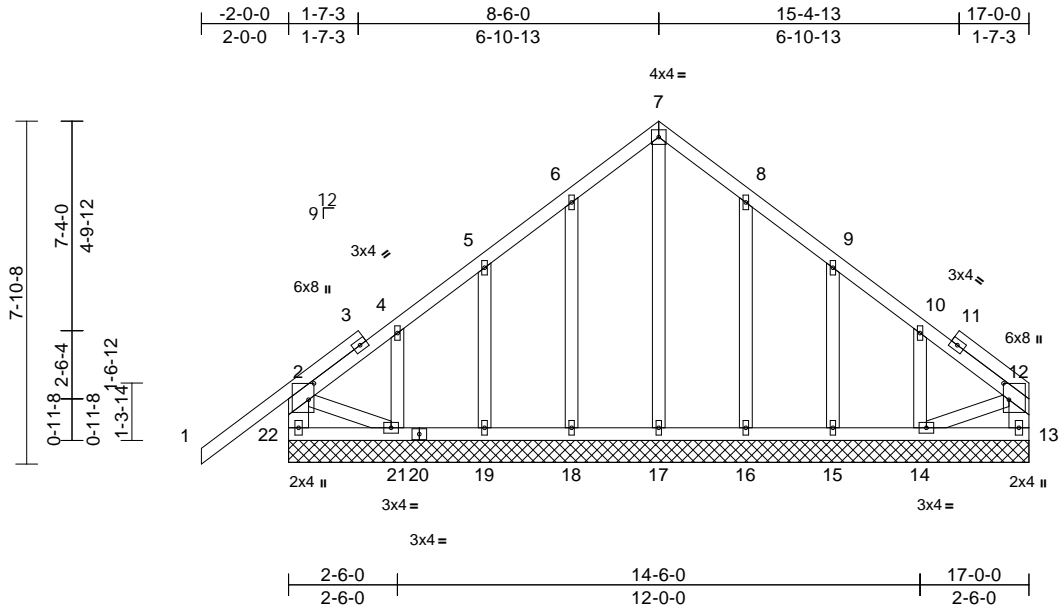
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540388
0424-025	F01	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:15
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Page: 1



Scale = 1:52.9

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

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	13	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 120 lb FT = 20%											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 2-21,14-12:2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22.

REACTIONS (size)	
13=17-0-0, 14=17-0-0, 15=17-0-0, 16=17-0-0, 17=17-0-0, 18=17-0-0, 19=17-0-0, 21=17-0-0, 22=17-0-0	
Max Horiz	22=162 (LC 11)
Max Uplift	14=53 (LC 12), 15=29 (LC 12), 16=25 (LC 12), 18=24 (LC 12), 19=33 (LC 12), 21=35 (LC 9), 22=20 (LC 8)
Max Grav	13=106 (LC 17), 14=203 (LC 18), 15=162 (LC 18), 16=173 (LC 18), 17=131 (LC 1), 18=173 (LC 17), 19=167 (LC 17), 21=145 (LC 17), 22=294 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-22=-274/86, 1-2=0/74, 2-4=-115/81, 4-5=-90/69, 5-6=-80/76, 6-7=-93/147, 7-8=-94/147, 8-9=-56/75, 9-10=-65/36, 10-12=-101/60, 12-13=-85/15
BOT CHORD	21-22=-137/105, 19-21=-69/133, 18-19=-69/133, 17-18=-69/133, 16-17=-69/133, 15-16=-69/133, 14-15=-69/133, 13-14=-11/27

WEBS	
7-17=-113/21, 6-18=-132/96, 5-19=-129/107, 4-21=-99/77, 8-16=-132/97, 9-15=-124/101, 10-14=-136/100, 2-21=-59/131, 12-14=-73/125	

- 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 22, 24 lb uplift at joint 18, 33 lb uplift at joint 19, 35 lb uplift at joint 21, 25 lb uplift at joint 16, 29 lb uplift at joint 15 and 53 lb uplift at joint 14.

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:

April 15,2024

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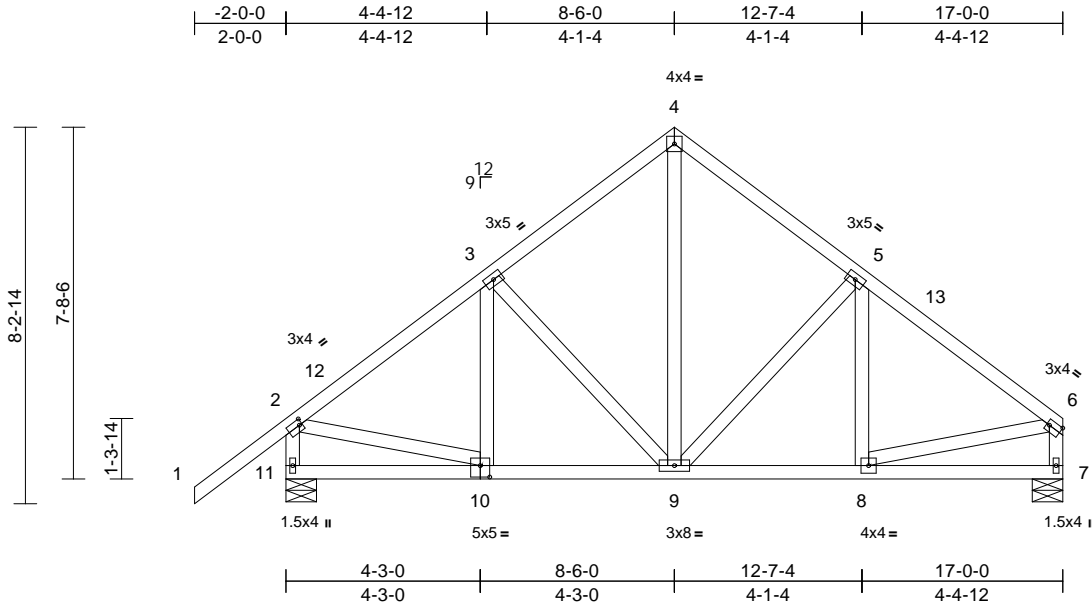
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540389
0424-025	F02	Common	4	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:15
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Page: 1



Scale = 1:50.4

Plate Offsets (X, Y): [2:0-0-12,0-1-8], [6:Edge,0-1-8], [10:0-2-8,0-3-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 115 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) 7=0-8-0, 11=0-8-0
Max Horiz 11=172 (LC 11)
Max Uplift 11=54 (LC 12)
Max Grav 7=660 (LC 1), 11=805 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-695/75, 3-4=-554/125, 4-5=-556/144, 5-6=-712/94, 2-11=-765/172, 6-7=-616/96
BOT CHORD 9-11=-131/521, 8-9=-27/513, 7-8=-44/81
WEBS 2-10=-6/510, 6-8=0/449, 3-10=-49/79, 3-9=-193/92, 4-9=-74/355, 5-9=-219/95, 5-8=-32/86

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-6-0, Zone2 8-6-0 to 12-7-4, Zone1 12-7-4 to 16-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

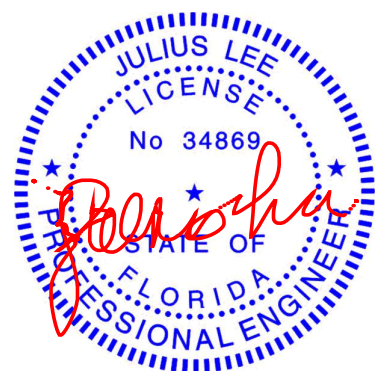
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

6) All bearings are assumed to be SP No.2 .

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 11.

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:

April 15,2024

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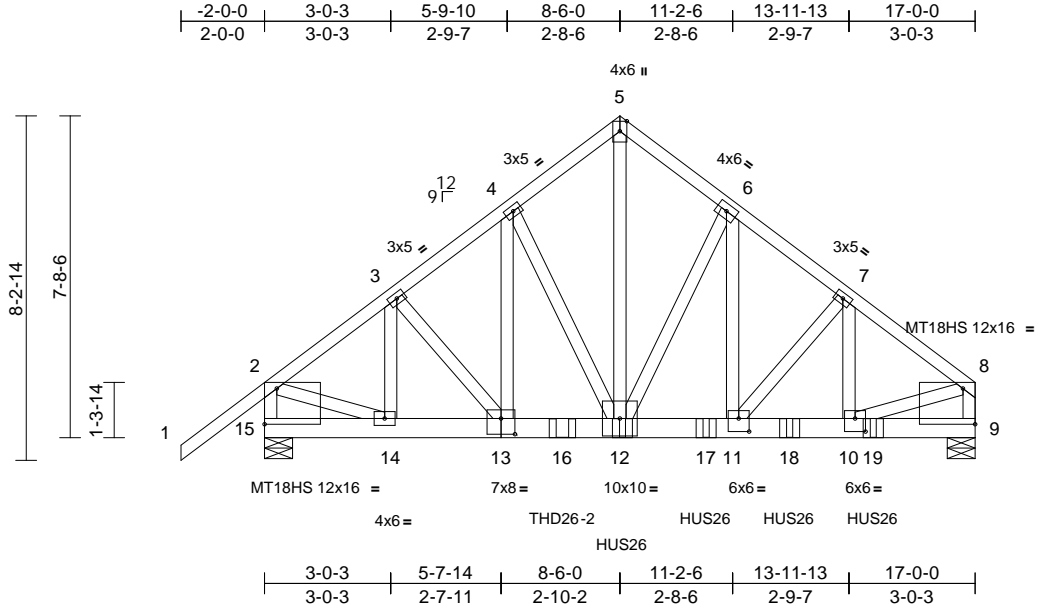
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540390
0424-025	F03	Common Girder	1	2	Job Reference (optional)	

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

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Page: 1



Scale = 1:55.1

Plate Offsets (X, Y): [8:Edge,0-10-4], [10:0-3-0,0-3-12], [11:0-3-0,0-3-12], [13:0-4-0,0-4-8], [15:Edge,0-10-4]

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	0.35	Vert(LL)	-0.07	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.13	12-13	>999	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 294 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 13-9:2x6 SP M 26
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-8-0, 15=0-8-0
Max Horiz 15=170 (LC 7)
Max Grav 9=6582 (LC 14), 15=4859 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-5165/0, 3-4=-6179/0, 4-5=-5721/0, 5-6=-5719/0, 6-7=-6770/0, 7-8=-7099/0, 2-15=-4692/0, 8-9=-6219/0
BOT CHORD 14-15=-75/258, 12-14=0/4949, 11-12=0/5410, 10-11=0/5632, 9-10=0/313
WEBS 2-14=0/4160, 8-10=0/5650, 5-12=0/6599, 4-12=-747/268, 6-12=-1847/0, 3-14=-1738/0, 3-13=0/1326, 4-13=-258/832, 6-11=0/2187, 7-11=-413/0, 7-10=0/427

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 15 SP No.2, Joint 9 SP M 26.
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
- 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 8-6-12 from the left end to 14-6-12 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: 1-2=-60, 2-5=-60, 5-8=-60, 9-15=-20
Concentrated Loads (lb)
Vert: 12=-1446 (B), 16=-2962 (B), 17=-1445 (B), 18=-1445 (B), 19=-1445 (B)



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

April 15, 2024

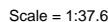
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:16 Page: 1
ID: Y7HbnSVp1sXKyO47a2hgGzRaxY-RfC?PsB70Hg3NSaPanL8w3uITxbGKWkRCDoi7J4zJC?F



LUMBER

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 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.

BRACING

LOAD CASE(S) Standard

FORCES (lb) - Maximum Compression/Maximum Tension

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 -2-0-0 to 1-0-0,
Zone1 1-0-0 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 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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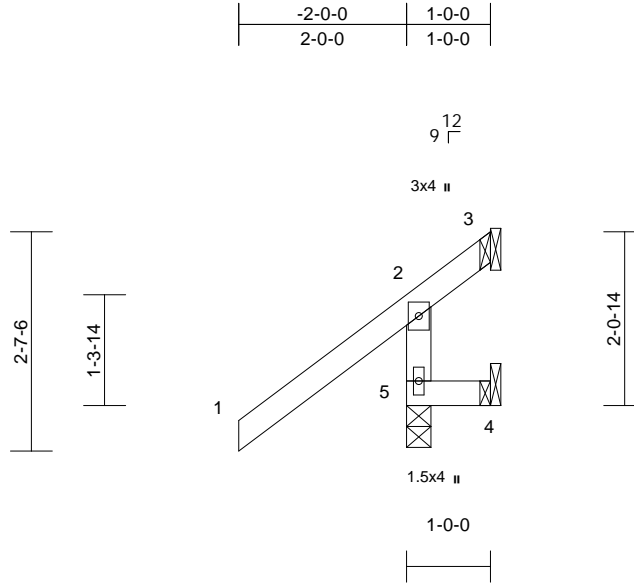
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Job	Truss	Truss Type	Qty	Ply	Garcia	T33540392
0424-025	J02	Jack-Open	8	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:16
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Page: 1



Scale = 1:27.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	4-5	>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-MR							Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 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 59 lb uplift at joint 5, 29 lb uplift at joint 4 and 104 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

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

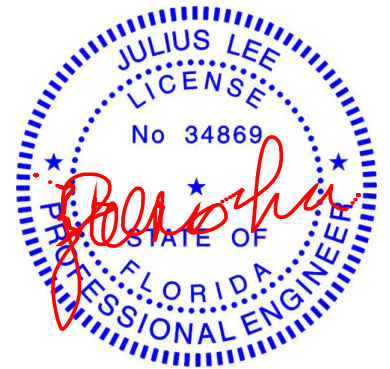
REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=95 (LC 12)
Max Uplift 3=-104 (LC 1), 4=-29 (LC 12), 5=-59 (LC 12)
Max Grav 3=36 (LC 12), 4=13 (LC 10), 5=327 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-284/305, 1-2=0/77, 2-3=-93/69
BOT CHORD 4-5=0/0

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 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 5 SP No.2 .



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

April 15, 2024

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

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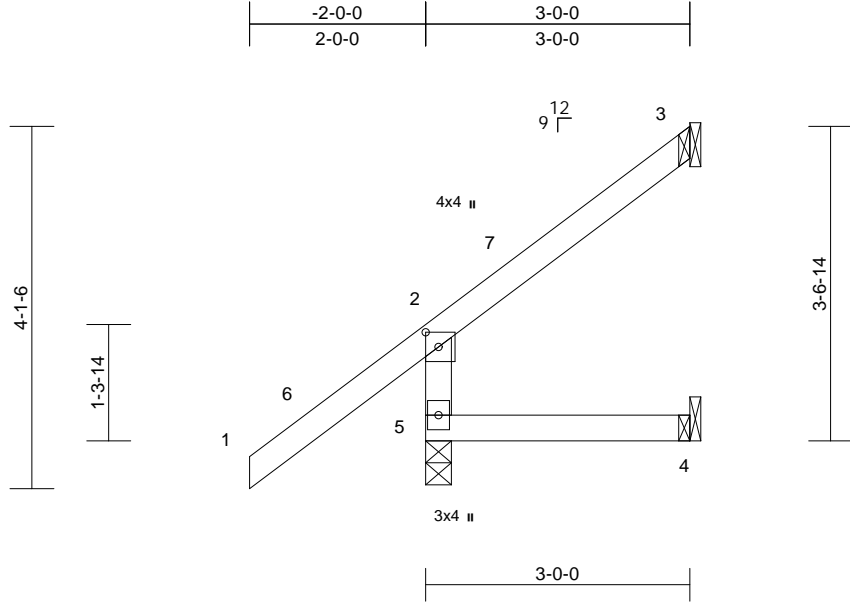
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540393
0424-025	J03	Jack-Open	7	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:16
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Page: 1



Scale = 1:26.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.01	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.01	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	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
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, 4= Mechanical,
5=0-3-8
Max Horiz 5=130 (LC 12)
Max Uplift 3=-29 (LC 12), 5=-24 (LC 12)
Max Grav 3=58 (LC 17), 4=48 (LC 3), 5=290
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-249/199, 1-2=0/77, 2-3=-75/42
BOT CHORD 4-5=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 -2-0-0 to 1-0-0,
Zone1 1-0-0 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.
 - 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 24 lb uplift at joint
5 and 29 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:

April 15,2024

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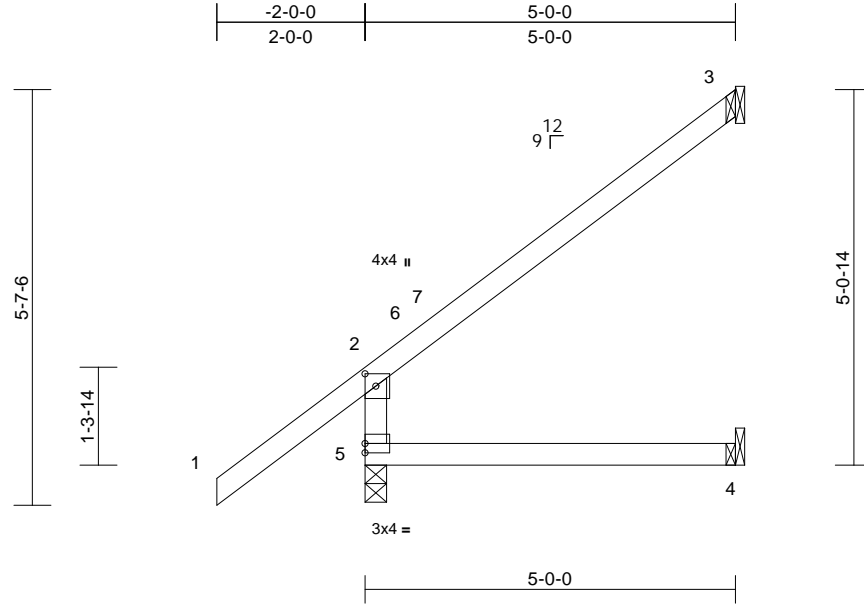
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540394
0424-025	J04	Jack-Open	7	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:16
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Page: 1



Scale = 1:31.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.04	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.05	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	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
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=0-3-8
Max Horiz 5=166 (LC 12)
Max Uplift 3=57 (LC 12), 5=6 (LC 12)
Max Grav 3=129 (LC 17), 4=88 (LC 3), 5=349 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-300/195, 1-2=0/77, 2-3=-130/73
BOT CHORD 4-5=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 -2-0-0 to 1-0-0,
Zone1 1-0-0 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 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 6 lb uplift at joint 5
and 57 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.

LOAD CASE(S) Standard



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

April 15, 2024

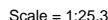
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LUMBER

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2 and 1 lb uplift at joint 3.

LOAD CASE(S) Standard

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) 2= Mechanical, 3= Mechanical,
4=0-8-0
Max Horiz 4=72 (LC 12)
Max Uplift 2=-42 (LC 12), 3=-1 (LC 12)
Max Grav 2=86 (LC 17), 3=54 (LC 3), 4=112
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-89/11, 1-2=-93/46
BOT CHORD 3-4=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) 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 4 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



April 15, 2024



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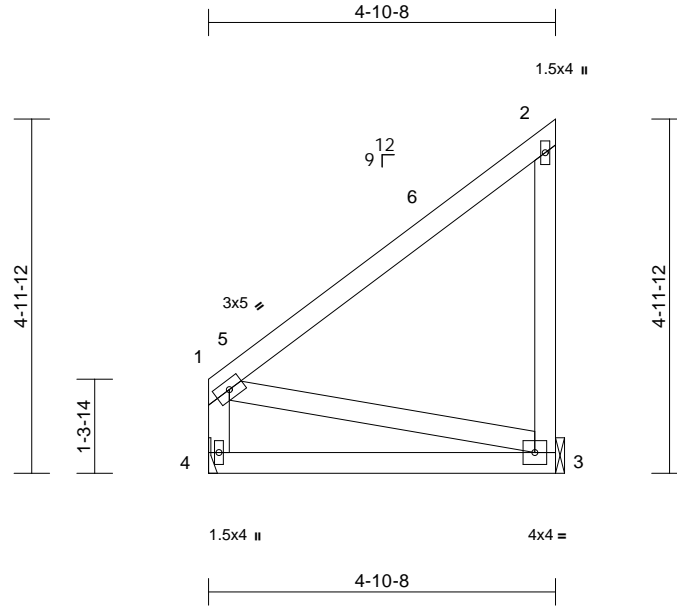
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540396
0424-025	J06	Jack-Closed	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:32.4

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	0.33	Vert(LL)	-0.03	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	3-4	>999	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: 31 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
Max Horiz 4=134 (LC 9)
Max Uplift 3=-52 (LC 9)
Max Grav 3=209 (LC 17), 4=197 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-151/73, 1-2=-185/136, 2-3=-165/195
BOT CHORD 3-4=-289/199
WEBS 1-3=-150/249

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,
Zone1 3-1-12 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) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom
chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 52 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.

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:

April 15, 2024

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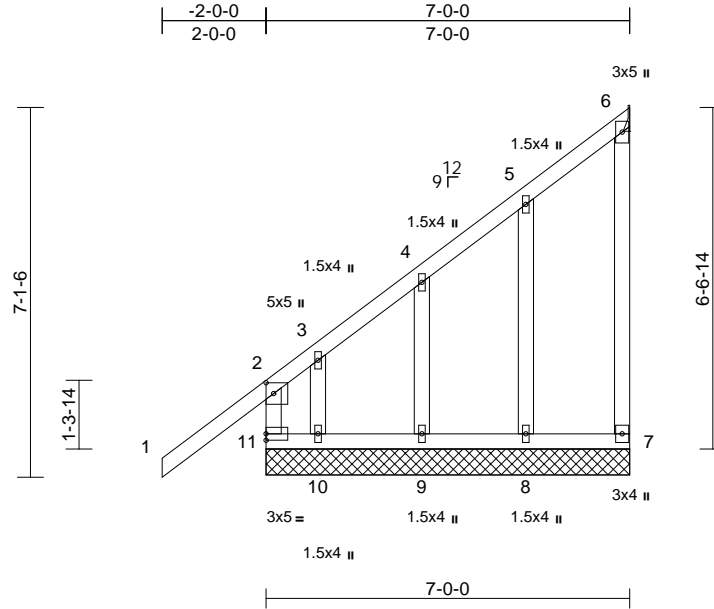
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540397
0424-025	J07	Jack-Open Supported Gable	1	1	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 Apr 15 08:55:20
ID:0KrZ?oVRo9fBaXfKEICqozzRqxX-MAGNC2TvmgH?isTR213gZ609Iq4vjv2iDT6WAHzQhFs

Page: 1



Scale = 1:44.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.00	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	0.00	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(lb/size)	6=47/ Mechanical, 7=15/7-0-0, 8=163/7-0-0, 9=178/7-0-0, 10=60/7-0-0, 11=323/7-0-0
Max Horiz	11=203 (LC 11)
Max Uplift	6=-21 (LC 9), 7=-27 (LC 11), 8=-29 (LC 12), 9=-21 (LC 12), 10=-218 (LC 9), 11=-52 (LC 8)
Max Grav	6=53 (LC 17), 7=45 (LC 13), 8=165 (LC 17), 9=178 (LC 1), 10=146 (LC 10), 11=405 (LC 18)

FORCES

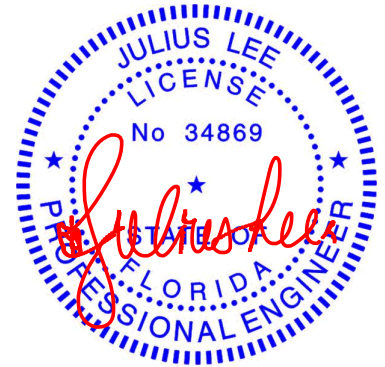
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-11=-301/231, 1-2=0/77, 2-3=-529/343, 3-4=-355/234, 4-5=-244/195, 5-6=-108/110, 6-7=0/0
BOT CHORD	10-11=-89/117, 9-10=-89/117, 8-9=-89/117, 7-8=-89/117
WEBS	5-8=-178/203, 4-9=-143/197, 3-10=-221/281

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=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C 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) 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.
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Bearings are assumed to be: , Joint 10 SP No.2 crushing capacity of 565 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 11, 27 lb uplift at joint 7, 21 lb uplift at joint 6, 29 lb uplift at joint 8, 21 lb uplift at joint 9 and 218 lb uplift at joint 10.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) 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:

April 15, 2024

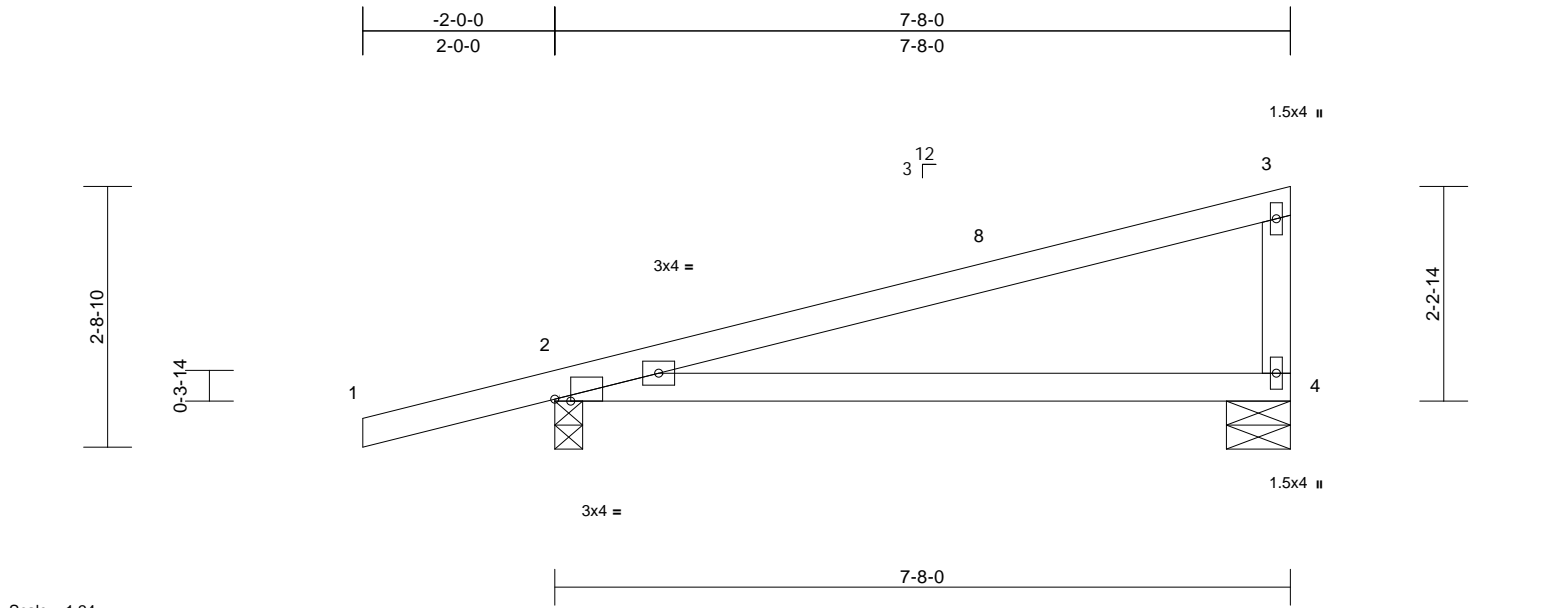
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **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	Garcia	T33540398
0424-025	M01	Monopitch	18	1	Job Reference (optional)	



Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.15	4-7	>599	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.27	4-7	>338	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 29 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
- REACTIONS** (size) 2=0-3-8, 4=0-8-0
Max Horiz 2=60 (LC 11)
Max Uplift 2=-90 (LC 12), 4=-29 (LC 12)
Max Grav 2=437 (LC 1), 4=285 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-164/53, 3-4=-196/225
BOT CHORD 2-4=-65/191
- 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; Partially
Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to
1-1-0, Zone1 1-1-0 to 7-6-4 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
2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 29 lb uplift at joint
4 and 90 lb uplift at joint 2.
- LOAD CASE(S)** Standard
- 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:

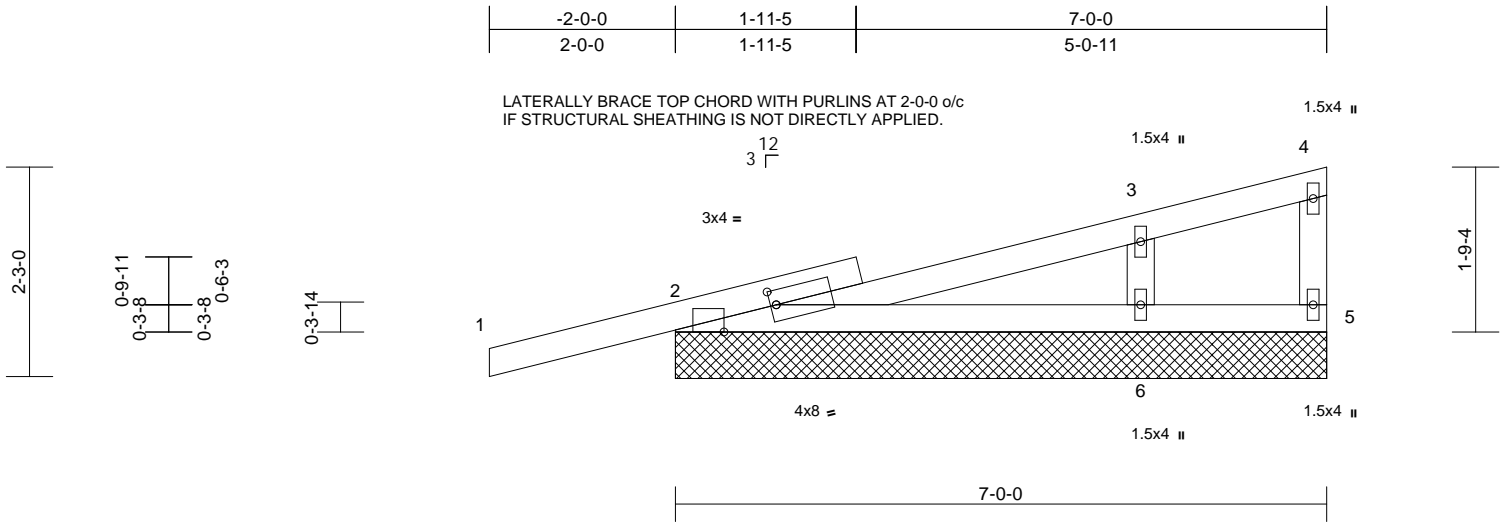
April 15,2024

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540399
0424-025	M02	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:24.8

Plate Offsets (X, Y): [2:0-0-12,0-1-14], [2:0-6-12,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	0.31	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	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
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

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

REACTIONS

(size)	2=7-0-0, 5=7-0-0, 6=7-0-0, 7=7-0-0
Max Horiz	2=58 (LC 9), 7=58 (LC 9)
Max Uplift	2=-96 (LC 8), 5=-25 (LC 1), 6=-5 (LC 8), 7=-96 (LC 8)
Max Grav	2=413 (LC 1), 5=5 (LC 8), 6=417 (LC 1), 7=413 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

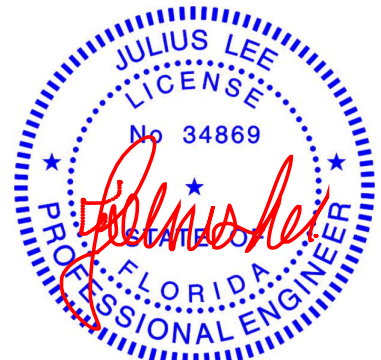
TOP CHORD	1-2=0/29, 2-3=-102/53, 3-4=-35/27, 4-5=0/9
BOT CHORD	2-6=-24/29, 5-6=-21/29
WEBS	3-6=-269/329

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=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 No.2.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 96 lb uplift at joint
2, 25 lb uplift at joint 5, 5 lb uplift at joint 6 and 96 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:

April 15, 2024

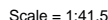
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:16 Page: 1
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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS (size) 2=13-11-0, 6=13-11-0, 8=13-11-0,
9=13-11-0, 10=13-11-0,
11=13-11-0, 15=13-11-0
Max Horiz 2=-107 (LC 10), 11=-107 (LC 10)
Max Uplift 8=-54 (LC 12), 10=-54 (LC 12)
Max Grav 2=147 (LC 18), 6=144 (LC 1),
8=329 (LC 18), 9=249 (LC 1),
10=330 (LC 17), 11=147 (LC 18),
15=144 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/16, 2-3=-113/76, 3-4=-132/113,
4-5=-127/117, 5-6=-87/41, 6-7=0/16
BOT CHORD 2-10=-25/76, 9-10=-25/76, 8-9=-25/76,
6-8=-25/76
WEBS 4-9=-169/0, 3-10=-247/173, 5-8=-246/168

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-0" o.c.
- 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 10 and 54 lb uplift at joint 8.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 15, 2024



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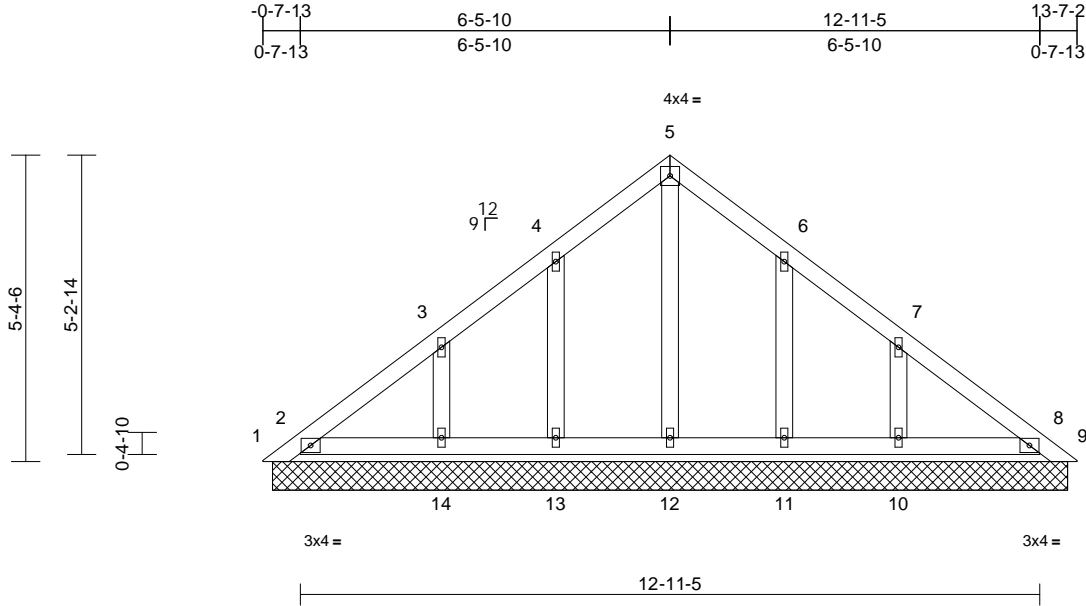
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540401
0424-025	PB01GE	Piggyback	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:40.3

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	0.07	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 67 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=13-11-0, 2=13-11-0, 8=13-11-0,
9=13-11-0, 10=13-11-0,
11=13-11-0, 12=13-11-0,
13=13-11-0, 14=13-11-0,
15=13-11-0, 18=13-11-0
Max Horiz 1=-99 (LC 10)
Max Uplift 1=-115 (LC 17), 9=-63 (LC 18),
10=-33 (LC 12), 11=-23 (LC 12),
13=-24 (LC 12), 14=-33 (LC 12)
Max Grav 1=47 (LC 11), 2=238 (LC 17),
8=208 (LC 1), 9=14 (LC 12),
10=193 (LC 18), 11=162 (LC 18),
12=127 (LC 1), 13=162 (LC 17),
14=193 (LC 17), 15=238 (LC 17),
18=208 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-107/159, 2-3=-95/70, 3-4=-86/58,
4-5=-84/111, 5-6=-84/112, 6-7=-63/59,
7-8=-71/37, 8-9=-27/58
BOT CHORD 2-14=-37/84, 13-14=-37/84, 12-13=-37/84,
11-12=-37/84, 10-11=-37/84, 8-10=-37/84
WEBS 5-12=-85/7, 4-13=-127/102, 3-14=-138/108,
6-11=-126/102, 7-10=-139/108

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-8-15 to 3-7-10,
Zone1 3-7-10 to 7-7-10, Zone2 7-7-10 to 11-7-10, Zone1
11-7-10 to 14-6-6 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 115 lb uplift at joint
1, 63 lb uplift at joint 9, 24 lb uplift at joint 13, 33 lb uplift
at joint 14, 23 lb uplift at joint 11 and 33 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.
- 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:

April 15, 2024

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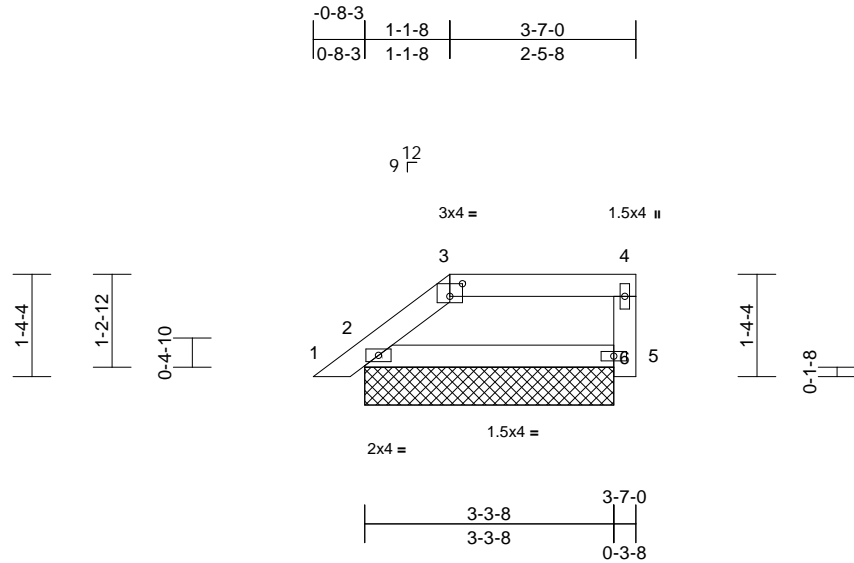
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540402
0424-025	PB02	Piggyback	1	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:17
ID:cqGx0lDV8rztX7pXvs3xgzRqwW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.4

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

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 13 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=3-3-8, 5=3-3-8, 6=3-3-8, 7=3-3-8
Max Horiz 2=38 (LC 11), 7=38 (LC 11)
Max Uplift 2=-11 (LC 12), 5=-5 (LC 9), 7=-11 (LC 12)
Max Grav 2=165 (LC 1), 5=136 (LC 1), 7=165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

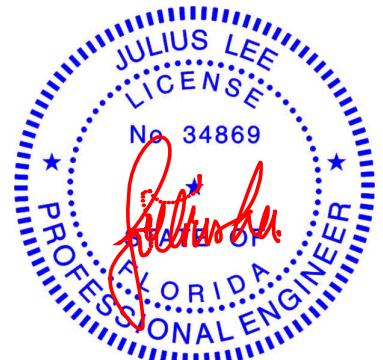
TOP CHORD 1-2=0/16, 2-3=-123/70, 3-4=-87/59, 5-6=0/0, 4-5=-91/73
BOT CHORD 2-5=-51/95

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 11 lb uplift at joint 2, 5 lb uplift at joint 5 and 11 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.
- 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:

April 15, 2024

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

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

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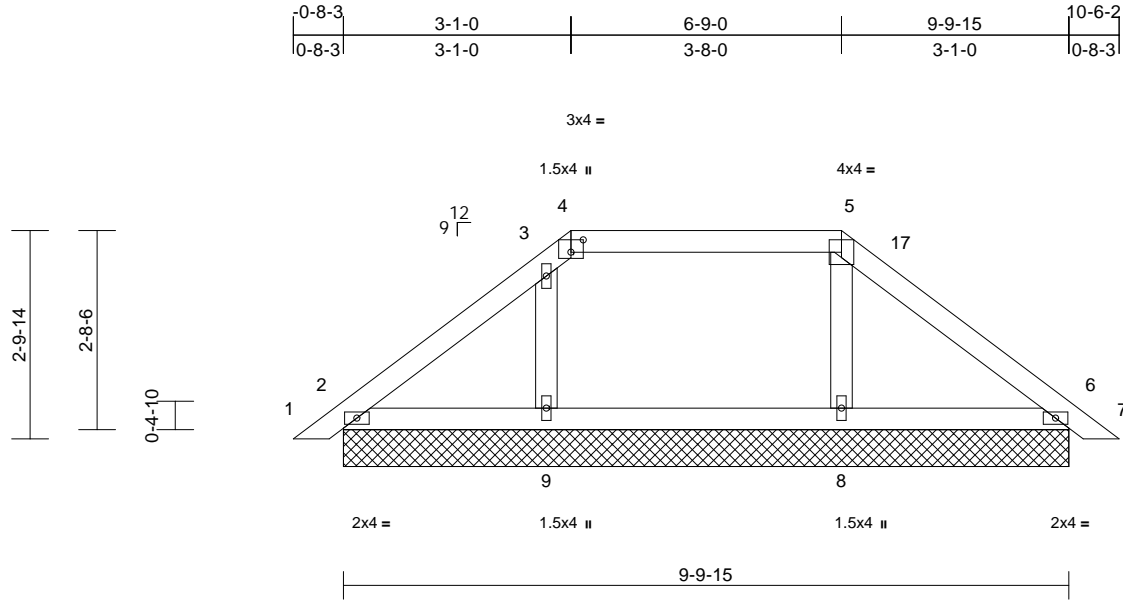
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540403
0424-025	PB03	Piggyback	1	3	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:17
ID:Heq1BA458y0zm8_wHzFkuwzRq0i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.2

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

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	14	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
OTHERS	2x4 SP No.2

BRACING

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

REACTIONS (size)	2=9-9-15, 6=9-9-15, 8=9-9-15, 9=9-9-15, 10=9-9-15, 14=9-9-15
Max Horiz	2=-51 (LC 10), 10=-51 (LC 10)
Max Uplift	2=-19 (LC 12), 6=-20 (LC 12), 10=-19 (LC 12), 14=-20 (LC 12)
Max Grav	2=163 (LC 1), 6=184 (LC 24), 8=252 (LC 1), 9=256 (LC 23), 10=163 (LC 1), 14=184 (LC 24)

FORCES

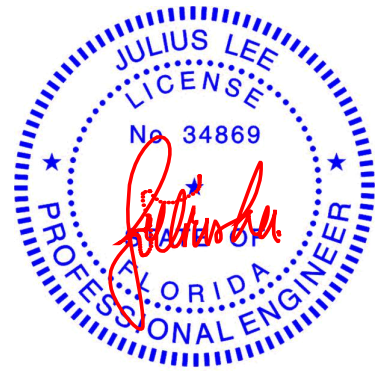
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-112/46, 3-4=-134/101, 4-5=-80/83, 5-6=-127/51, 6-7=0/16
BOT CHORD	2-9=-7/79, 8-9=-1/79, 6-8=-1/79
WEBS	5-8=-163/88, 3-9=-174/87

NOTES

- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-2-15 to 3-5-2, Zone1 3-5-2 to 3-9-2, Zone3 3-9-2 to 10-11-6 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 19 lb uplift at joint 2, 20 lb uplift at joint 6, 19 lb uplift at joint 2 and 20 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.
- 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:

April 15,2024

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

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

MiTek®

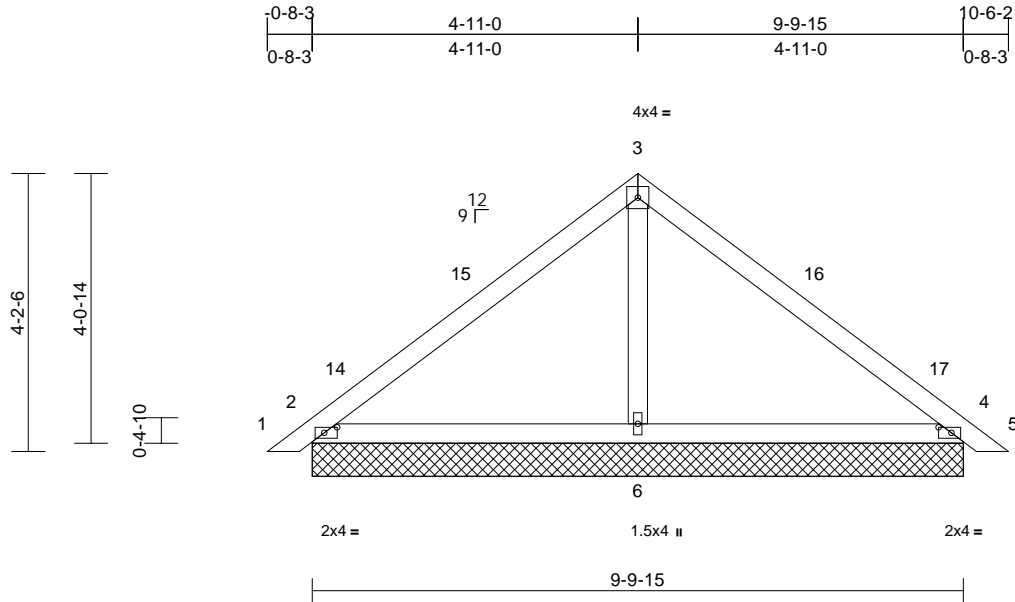
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540404
0424-025	PB04	Piggyback	5	1	Job Reference (optional)	

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

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Fri Apr 12 13:06:17
ID:yRRlrK1KYmJHE0Rr6RIhozRqxm-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:34.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 40 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=9-9-15, 4=9-9-15, 6=9-9-15,
7=9-9-15, 11=9-9-15
Max Horiz 2=77 (LC 11), 7=77 (LC 11)
Max Uplift 2=29 (LC 12), 4=29 (LC 12),
7=29 (LC 12), 11=29 (LC 12)
Max Grav 2=259 (LC 1), 4=259 (LC 1), 6=321
(LC 1), 7=259 (LC 1), 11=259 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-195/121, 3-4=-195/126,
4-5=0/16
BOT CHORD 2-6=-30/107, 4-6=-30/107
WEBS 3-6=-160/31

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-2-15 to 3-2-15,
Zone1 3-2-15 to 5-7-2, Zone2 5-7-2 to 9-10-1, Zone1
9-10-1 to 10-11-6 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2, 29 lb uplift at joint 4, 29 lb uplift at joint 2 and 29 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

April 15, 2024

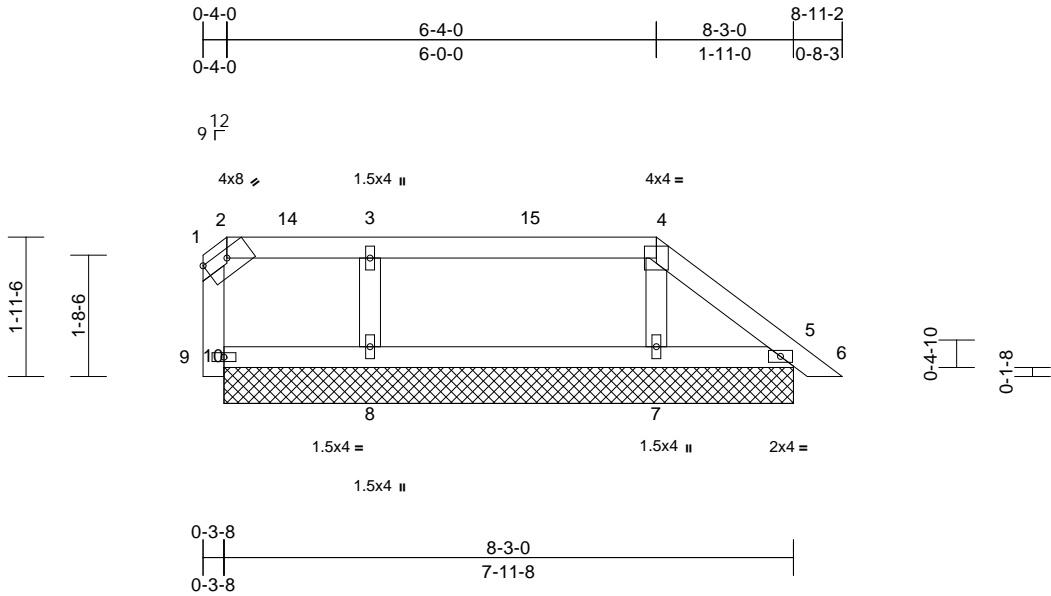
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540406
0424-025	PB06	Piggyback	1	1	Job Reference (optional)	



Scale = 1:32.2
Plate Offsets (X, Y): [1:Edge,0-1-6]

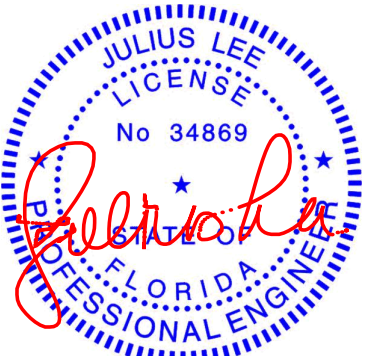
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	5	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 33 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS (size)	
	5=7-11-8, 7=7-11-8, 8=7-11-8, 9=7-11-8, 10=7-11-8, 11=7-11-8
Max Horiz	10=53 (LC 10)
Max Uplift	5=-15 (LC 12), 8=-45 (LC 8), 9=-8 (LC 13), 11=-15 (LC 12)
Max Grav	5=92 (LC 1), 7=218 (LC 1), 8=342 (LC 23), 9=36 (LC 10), 11=92 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	9-10=0/0, 1-9=-26/23, 1-2=-44/35, 2-3=-28/25, 3-4=-29/25, 4-5=-77/51, 5-6=0/16
BOT CHORD	8-9=-49/116, 7-8=-49/116, 5-7=-49/116
WEBS	4-7=-132/92, 3-8=-270/190

- 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 0-1-12 to 0-4-0, Zone2 0-4-0 to 4-6-15, Zone1 4-6-15 to 6-4-0, Zone3 6-4-0 to 8-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 8 lb uplift at joint 9, 15 lb uplift at joint 5, 45 lb uplift at joint 8 and 15 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.

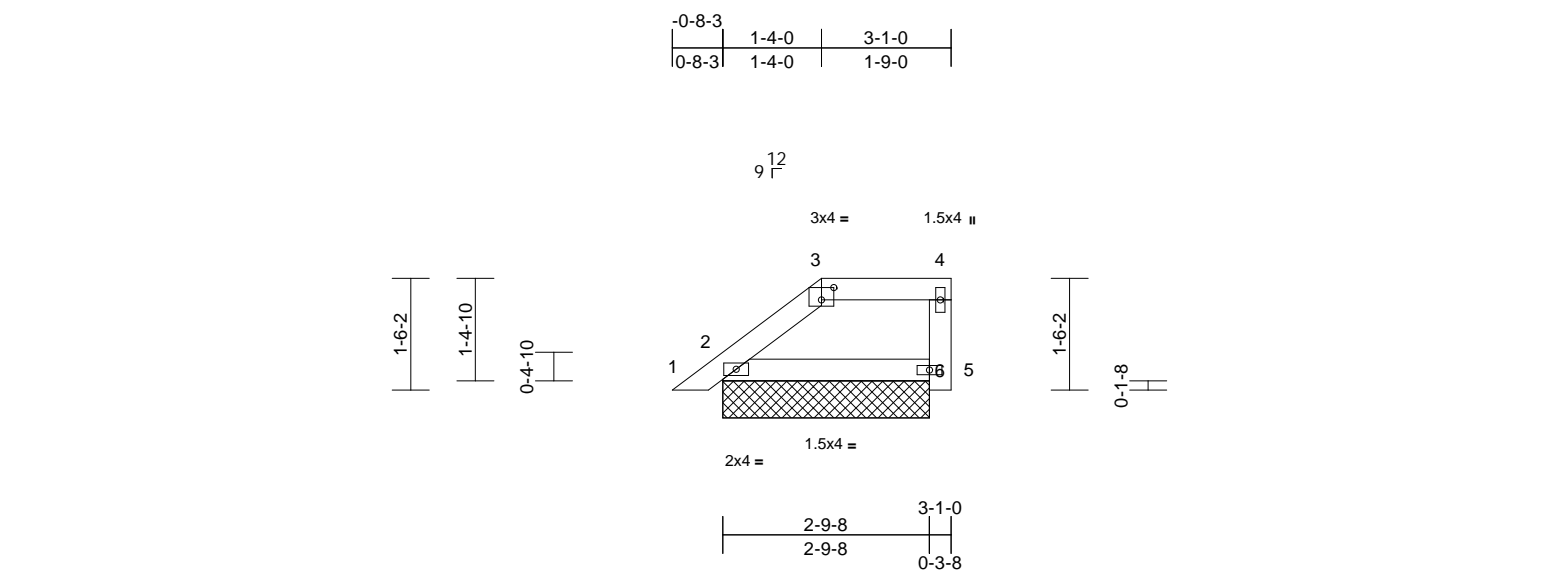
LOAD CASE(S) Standard



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

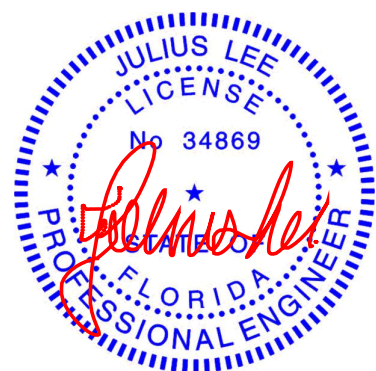
April 15,2024

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540407
0424-025	PB07	Piggyback	1	2	Job Reference (optional)	



Scale = 1:31.1											
Plate Offsets (X, Y): [3:0-2-0,0-2-0]											
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	0.03	Vert(LL)	n/a	-	n/a	999	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 25 lb FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 2=2-9-8, 5=2-9-8, 6=2-9-8, 7=2-9-8
Max Horiz 2=43 (LC 11), 7=43 (LC 11)
Max Uplift 2=-11 (LC 12), 5=-6 (LC 9), 7=-11 (LC 12)
Max Grav 2=146 (LC 1), 5=115 (LC 1), 7=146 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-89/48, 3-4=-58/49, 5-6=0/0, 4-5=-74/61
BOT CHORD 2-5=-49/72
NOTES
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
- 4) 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
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be SP No.2 .
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 6 lb uplift at joint 5 and 11 lb uplift at joint 2.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
LOAD CASE(S) Standard



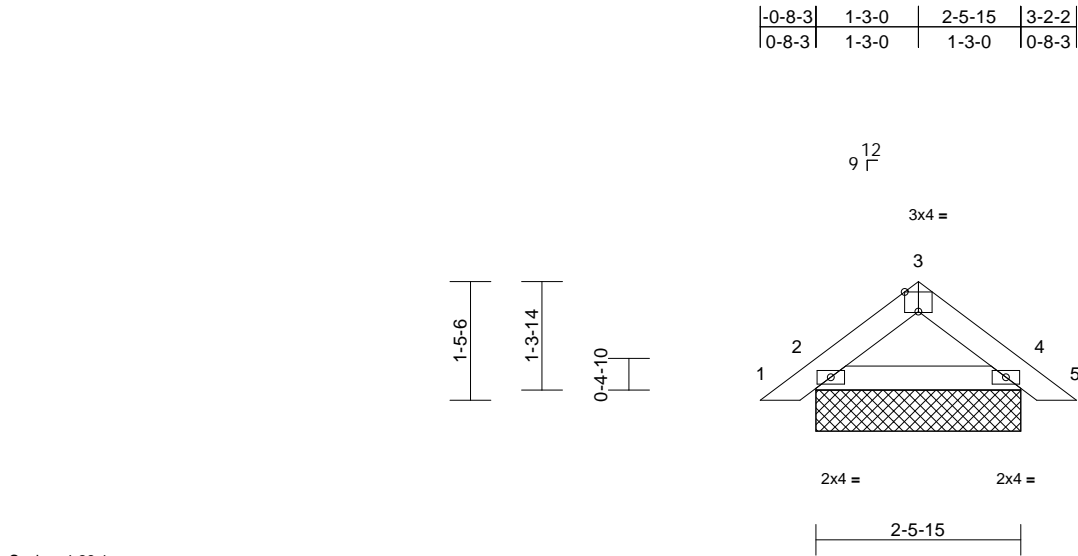
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 15,2024

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Garcia	T33540408
0424-025	PB08	Piggyback	8	1	Job Reference (optional)	



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	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

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

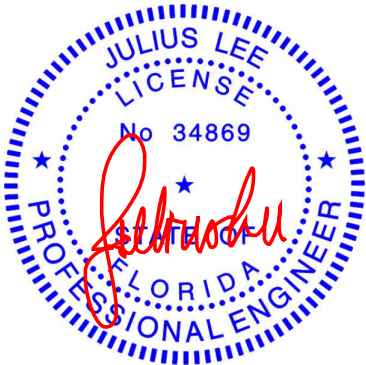
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-5-15, 4=2-5-15, 6=2-5-15, 10=2-5-15
Max Horiz 2=-24 (LC 10), 6=-24 (LC 10)
Max Uplift 2=-10 (LC 12), 4=-7 (LC 12), 6=-10 (LC 12), 10=-7 (LC 12)
Max Grav 2=127 (LC 1), 4=133 (LC 1), 6=127 (LC 1), 10=133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-67/48, 3-4=-68/45, 4-5=0/16
BOT CHORD 2-4=0/53

- 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=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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.

- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2, 7 lb uplift at joint 4, 10 lb uplift at joint 2 and 7 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard



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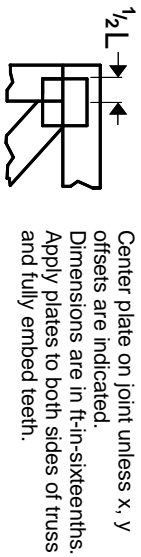
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

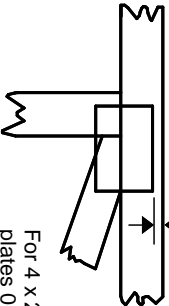
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Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

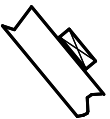
—
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

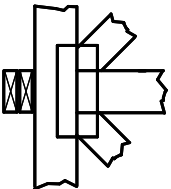
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



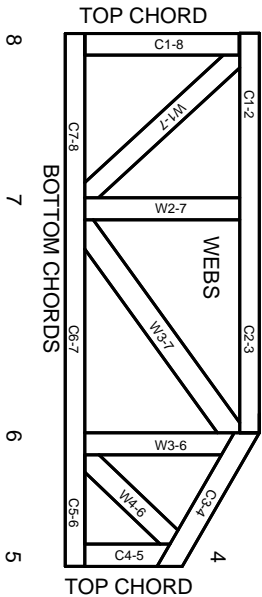
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/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



1 2 3 Joint ID typ.



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: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 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.