



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

RE: megan_holloway - Megan Holloway

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: Lee holloway Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Alachua County State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 28 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	T29069789	G01	10/26/2223	T29069811	T13		10/26/22
2	T29069790	G02	10/26/2224	T29069812	T14		10/26/22
3	T29069791	H01	10/26/2225	T29069813	T15		10/26/22
4	T29069792	J01	10/26/2226	T29069814	T16		10/26/22
5	T29069793	J02	10/26/2227	T29069815	T17		10/26/22
6	T29069794	PB01	10/26/2228	T29069816	T18		10/26/22
7	T29069795	PB1A	10/26/22				
8	T29069796	PB02	10/26/22				
9	T29069797	T01	10/26/22				
10	T29069798	T01GE	10/26/22				
11	T29069799	T02	10/26/22				
12	T29069800	T02GE	10/26/22				
13	T29069801	T03	10/26/22				
14	T29069802	T04	10/26/22				
15	T29069803	T05	10/26/22				
16	T29069804	T06	10/26/22				
17	T29069805	T07	10/26/22				
18	T29069806	T08	10/26/22				
19	T29069807	T09	10/26/22				
20	T29069808	T10	10/26/22				
21	T29069809	T11	10/26/22				
22	T29069810	T12	10/26/22				

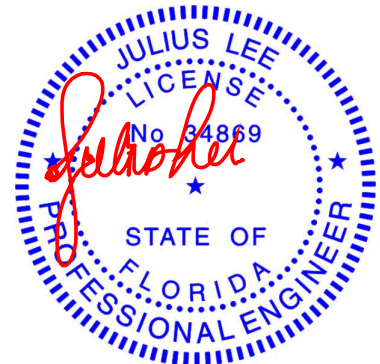


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2023.

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



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

October 27, 2022

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069789
MEGAN_HOLLOWAY	G01	COMMON GIRDER	1	3	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:45 2022 Page 1

ID:9_WkkVLZ72Nen5bY88LPMkyrWOS-fQG9vGhgZ0hY9O5S088fpZ4jXjAZDBaJoW7klyPZ0u

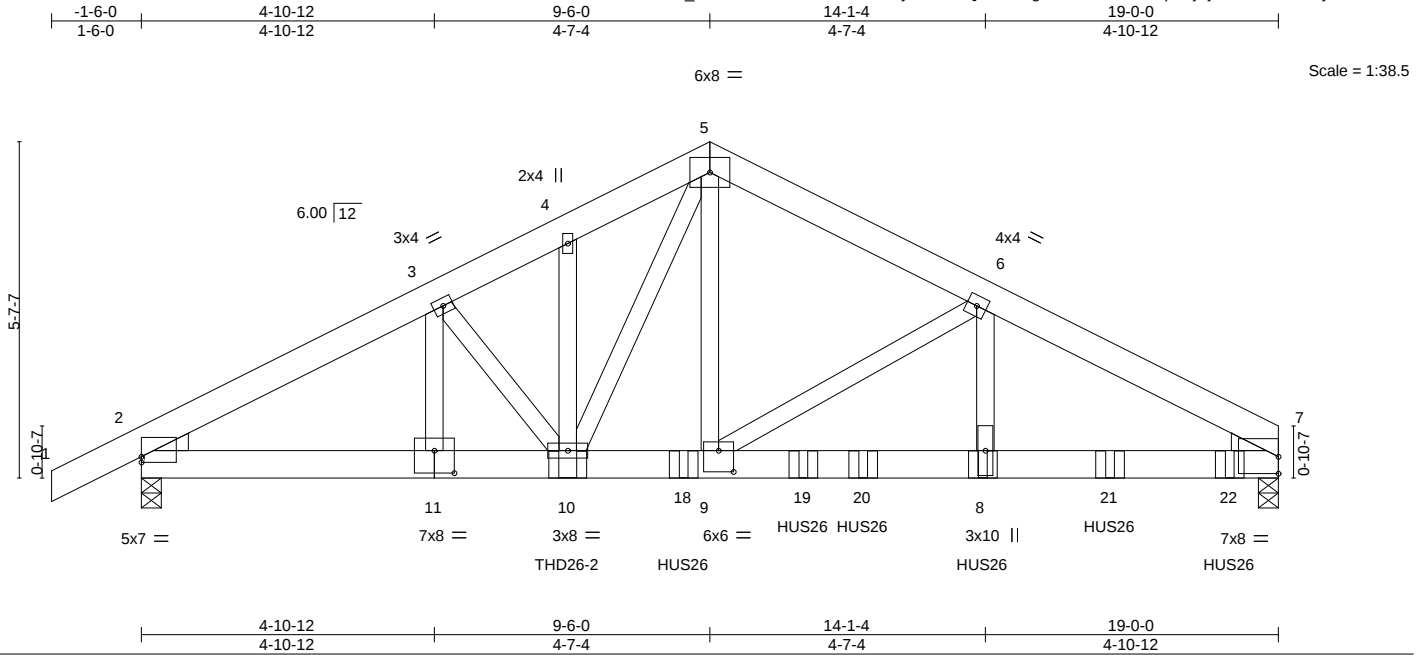


Plate Offsets (X,Y)-- [2:0-0-0,0-1-2], [7:0-0-0,0-3-6], [9:0-3-0,0-4-4], [11:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.66	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.86	Vert(CT)	-0.18	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.38	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 419 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 7-11: 2x6 SP SS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

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

REACTIONS.

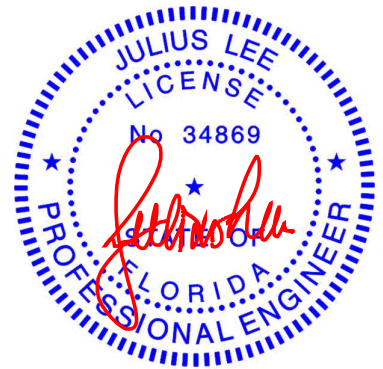
(size) 7=0-4-0, 2=0-4-0
 Max Horz 2=88(LC 7)
 Max Grav 7=8235(LC 2), 2=4924(LC 1)

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

TOP CHORD 2-3=-8917/0, 3-4=-8931/0, 4-5=-8998/0, 5-6=-7950/0, 6-7=-11182/0
 BOT CHORD 2-11=0/7712, 10-11=0/7712, 9-10=0/7126, 8-9=0/9814, 7-8=0/9814
 WEBS 5-9=0/4992, 6-9=-3517/0, 6-8=0/3574, 4-10=-292/14, 5-10=-25/2307, 3-10=-94/721

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-8 2x4 - 1 row at 0-7-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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 front face of bottom chord, skewed 0.0 deg to the left, sloping 0.0 deg. down.
- 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 9-0-12 from the left end to 14-0-12 to connect truss(es) to front 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 16-2-4 from the left end to 18-2-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.



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 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

October 27,2022

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069789
MEGAN_HOLLOWAY	G01	COMMON GIRDER	1	3	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:46 2022 Page 2
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-7cqX7ciikt8YAJzH0jfnNB06FTx3PIgRjYSGhGlyPZ0t

LOAD CASE(S) Standard

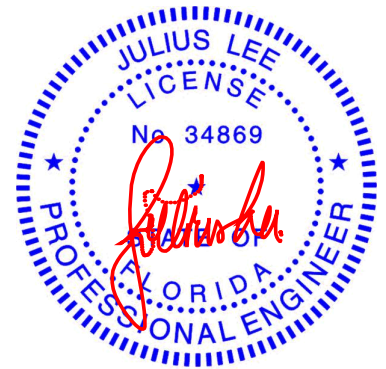
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 5-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 8=-1305(F) 10=-2799(F) 18=-1275(F) 19=-1340(F) 20=-1174(F) 21=-1728(F) 22=-1730(F)



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway
MEGAN_HOLLOWAY	G02	COMMON GIRDER	1	2	Job Reference (optional)

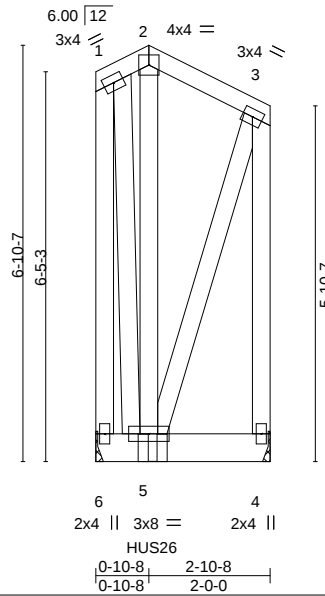
T29069790

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:46 2022 Page 1

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Scale = 1:38.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.15	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 15.0	Rep Stress Incr NO	Matrix-MP					Weight: 109 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 4=Mechanical
 Max Horz 6=-179(LC 6)
 Max Uplift 6=-249(LC 4), 4=-182(LC 5)
 Max Grav 6=954(LC 1), 4=536(LC 29)

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

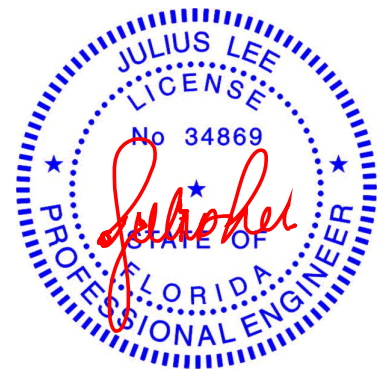
TOP CHORD 1-6=-559/177, 3-4=-391/203
 WEBS 3-5=-228/333, 1-5=-190/523

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 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 6 and 182 lb uplift at joint 4.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 0-11-4 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 4-6=-30



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October 27, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



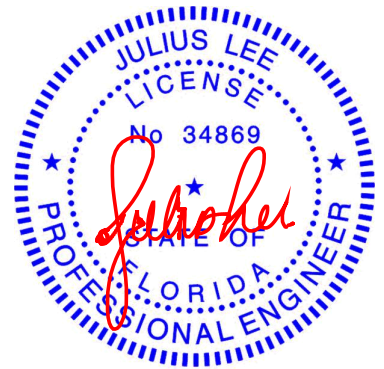
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069790
MEGAN_HOLLOWAY	G02	COMMON GIRDER	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:47 2022 Page 2
ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-boNwKyiwVBGPnTYTaRAckEeZeKZs1Chsm6?EpByPZ0s

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-1168(B)



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069791
MEGAN_HOLLOWAY	H01	Half Hip Girder	1	1		

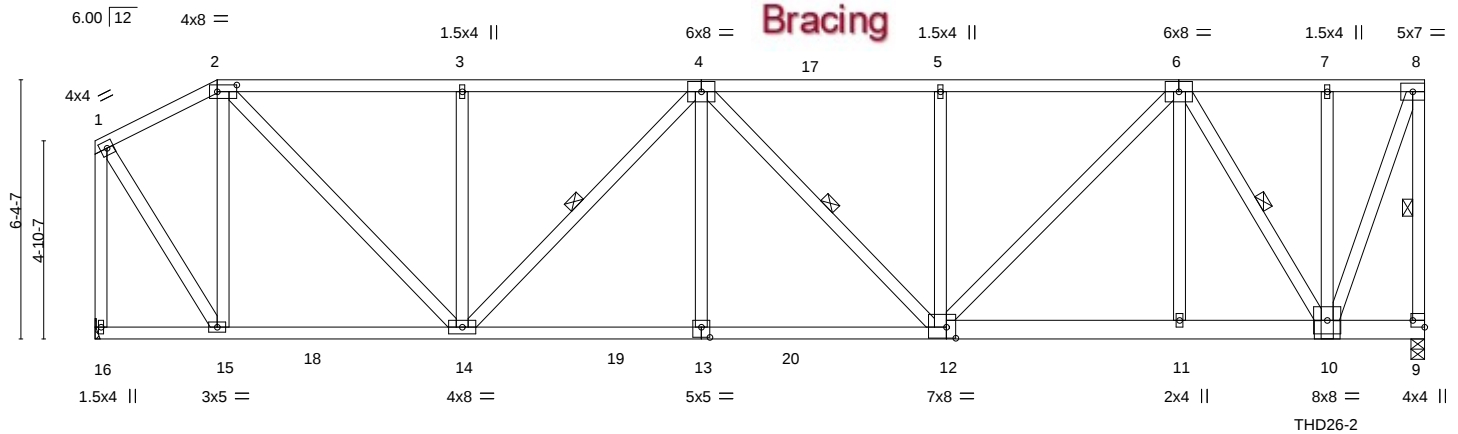
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:48 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-3?xIYljYUGOGPd7g78irHRBcHkiMmXx0?minLdyPZ0r

3-0-0	9-0-4	14-10-12	20-9-4	26-7-12	32-8-0
3-0-0	6-0-4	5-10-8	5-10-8	5-10-8	6-0-4

Scale = 1:56.6



3-0-0	9-0-4	14-10-12	20-9-4	26-7-12	32-8-0
3-0-0	6-0-4	5-10-8	5-10-8	5-10-8	6-0-4

Plate Offsets (X,Y)-- [2:0-5,12,0-2-0], [9:Edge,0-3-8], [12:0-2-12,0-3-4], [13:0-2-8,0-3-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	in (loc) l/defl L/d	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.96	Vert(LL) -0.18 12-13 >999 240	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Vert(CT) -0.34 12-13 >999 180	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Horz(CT) 0.06 9 n/a n/a	
					Weight: 248 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-9, 4-14, 4-12, 6-10

REACTIONS. (size) 9=0-4-0, 16=Mechanical
Max Horz 16=172(LC 5)
Max Uplift 9=246(LC 8), 16=17(LC 8)
Max Grav 9=2229(LC 29), 16=1515(LC 29)

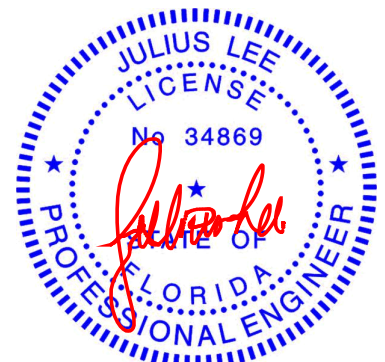
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-844/70, 2-3=-1704/90, 3-4=-1704/90, 4-5=-2027/133, 5-6=-2018/131,
6-7=-824/148, 7-8=-824/148, 8-9=-2111/265, 1-16=-1490/33
BOT CHORD 14-15=-78/741, 13-14=-18/2110, 12-13=-18/2110, 11-12=-91/1455, 10-11=-90/1454
WEBS 2-15=-883/44, 2-14=-27/1442, 3-14=-428/86, 4-14=-577/23, 4-13=0/280, 5-12=-437/88,
6-12=-97/942, 6-11=0/280, 1-15=0/1282, 6-10=-1304/20, 8-10=-256/2208

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 9 and 17 lb uplift at joint 16.
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 30-3-5 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway
MEGAN_HOLLOWAY	H01	Half Hip Girder	1	1	T29069791

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:48 2022 Page 2
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-3?xIYljYGUOGPd7g78irHRBcHkiMmXx0?mInLdyPZ0r

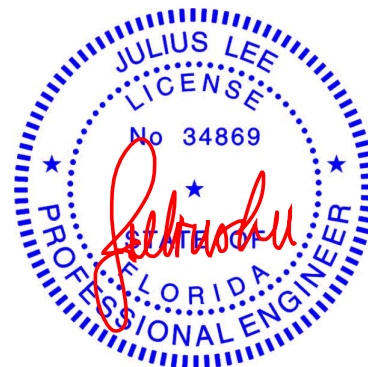
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 10=-934(B)



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

October 27, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069792
MEGAN_HOLLOWAY	J01	Jack-Open	1	1	Job Reference (optional)	

Mayo Truss Company, Inc.,

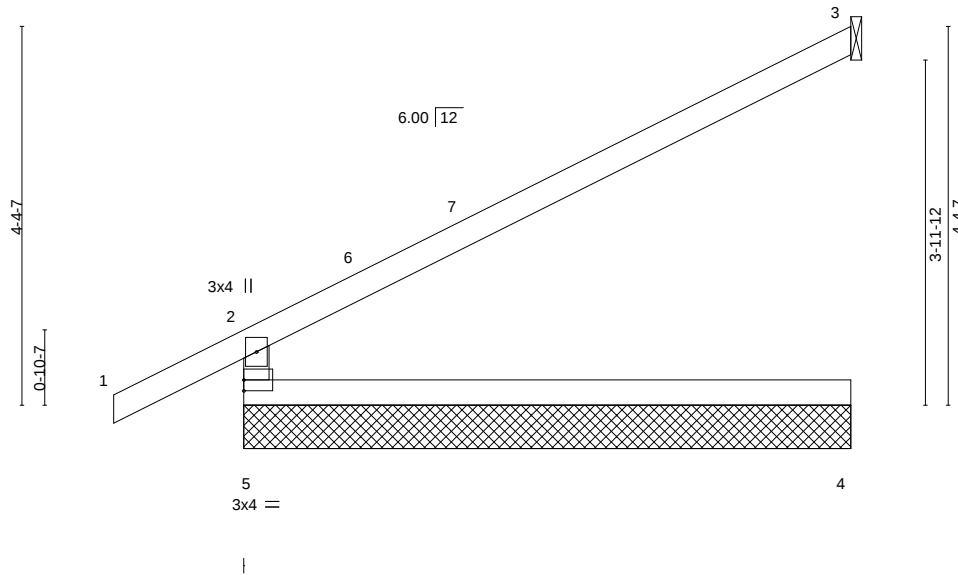
Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:49 2022 Page 1

ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-XBVgldkA1oW71nshsD4pfjnv89UV619EQUlt4yPZ0q



Scale = 1:26.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.09	4-5	>860	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.21	4-5	>383	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 FBC2020/TPI2014		Matrix-AS						
								Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-0-0 except (jt=length) 3=Mechanical, 3=Mechanical.

(lb) - Max Horz 5=124(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 3

Max Grav All reactions 250 lb or less at joint(s) 3, 3, 4 except 5=383(LC 1)

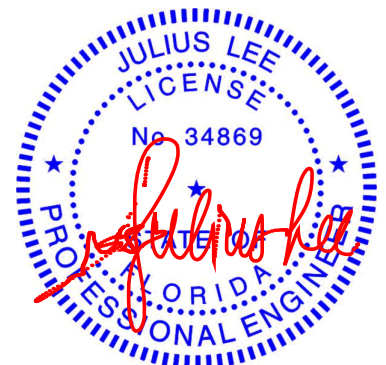
FORCES.

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

TOP CHORD 2-5=321/167

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869

MiTek Inc. DBA MiTek USA FL Cert 6634

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

October 27,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



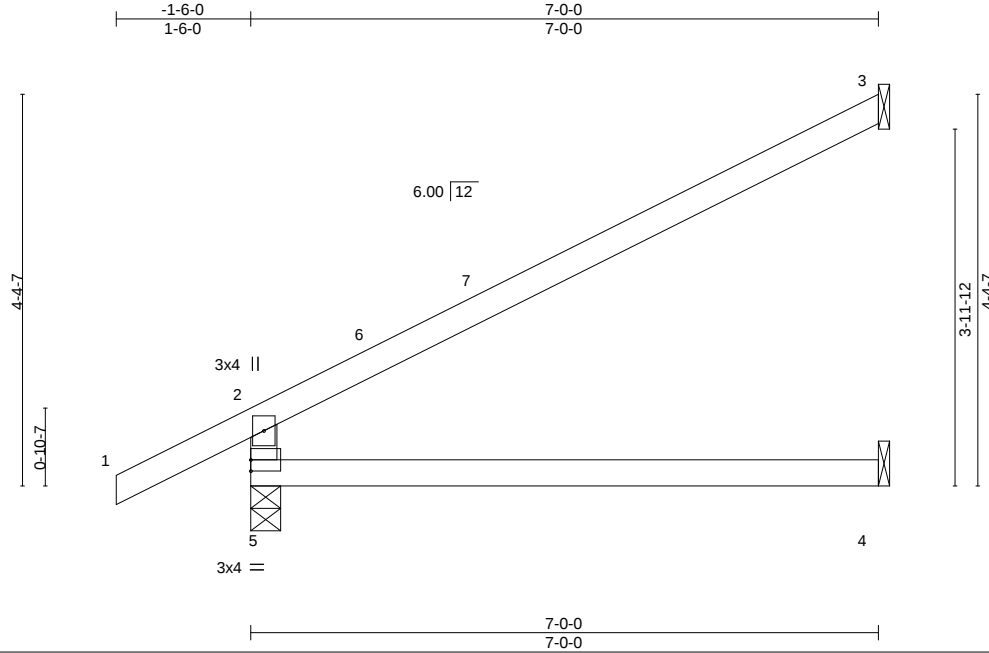
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069793
MEGAN_HOLLOWAY	J02	Jack-Open	16	1	Job Reference (optional)	

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:50 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-?N32yzloo6fzewH2FZkJMSGyhYWsEYHJS4EuPWYPZ0p



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	TOP CHORD	-0.09	4-5	>890	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.51	BOT CHORD	-0.21	4-5	>396		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00		0.06	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS						
	Code FBC2020/TPI2014						Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

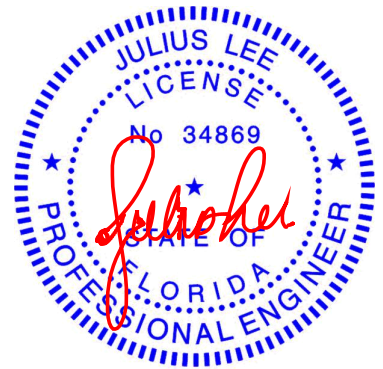
(size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=124(LC 12)
Max Uplift 5=-16(LC 12), 3=-52(LC 12)
Max Grav 5=382(LC 1), 3=185(LC 1), 4=125(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-322/167

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

October 27,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:51 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-TadQAJRZPnqG4rEpGFYu4pEryyAz7EShkzRyyyPZ0o
4-2-9 4-2-9 4-2-9

Technical drawing of a roof truss system. The drawing shows a cross-section of a roof with a gable end. The roof is supported by a central vertical post (labeled 3) and two side posts (labeled 1 and 2). The roof structure is composed of several members: 1 (left side), 2 (left side), 3 (central vertical post), 4 (right side), 5 (right side), 6 (horizontal base), 7 (left side), 8 (left side), 9 (right side), and 10 (right side). The roof is covered with a cross-hatched material. Dimensions are provided for various parts: 0.1-1.8 (left side), 2-1.5 (left side), 0.3-1.5 (left side), 4x4 = (top center), 6.00 (12 (top center), 8-5-3 (bottom center), 8-5-3 (bottom center), 2x4 = (bottom left), 1.5x4 || (bottom center), 2x4 = (bottom right), 0.3-1.5 (right side), and 0.1-1.8 (right side).

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 4-2-9, Exterior(2R) 4-2-9 to 7-2-9, Interior(1) 7-2-9 to 8-1-4 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) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 27, 2022



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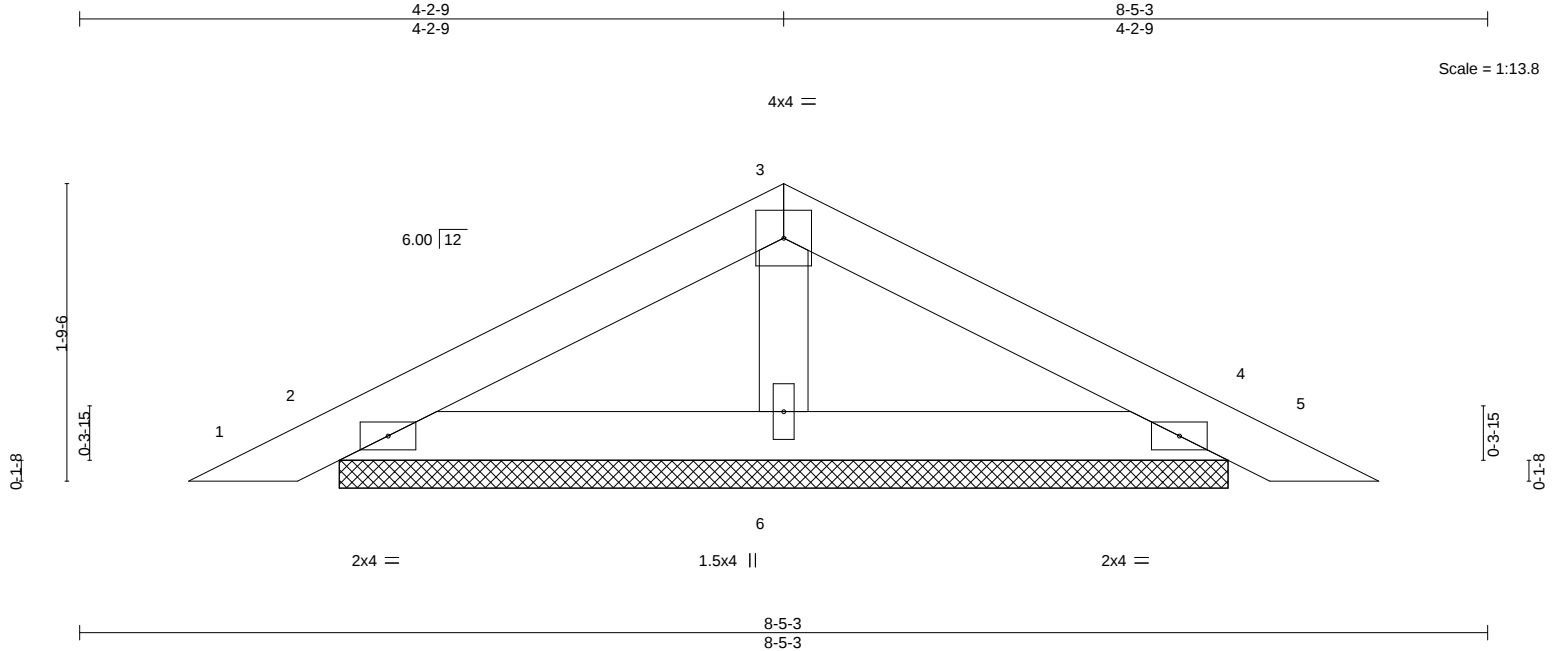
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069795
MEGAN_HOLLOWAY	PB1A	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:52 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-xmBpNfm3KjvhuEQRM_mnRHLQhLl4iSxbwOj?UPyPZ0n



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.08	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 21 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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

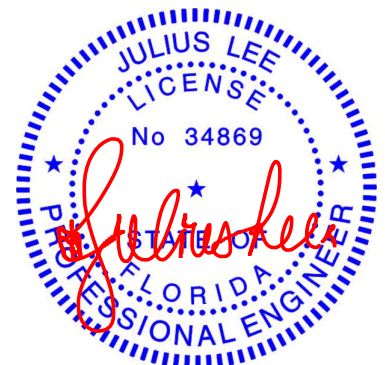
REACTIONS.

(size) 2=5-3-14, 4=5-3-14, 6=5-3-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=145(LC 1), 4=145(LC 1), 6=205(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

October 27,2022

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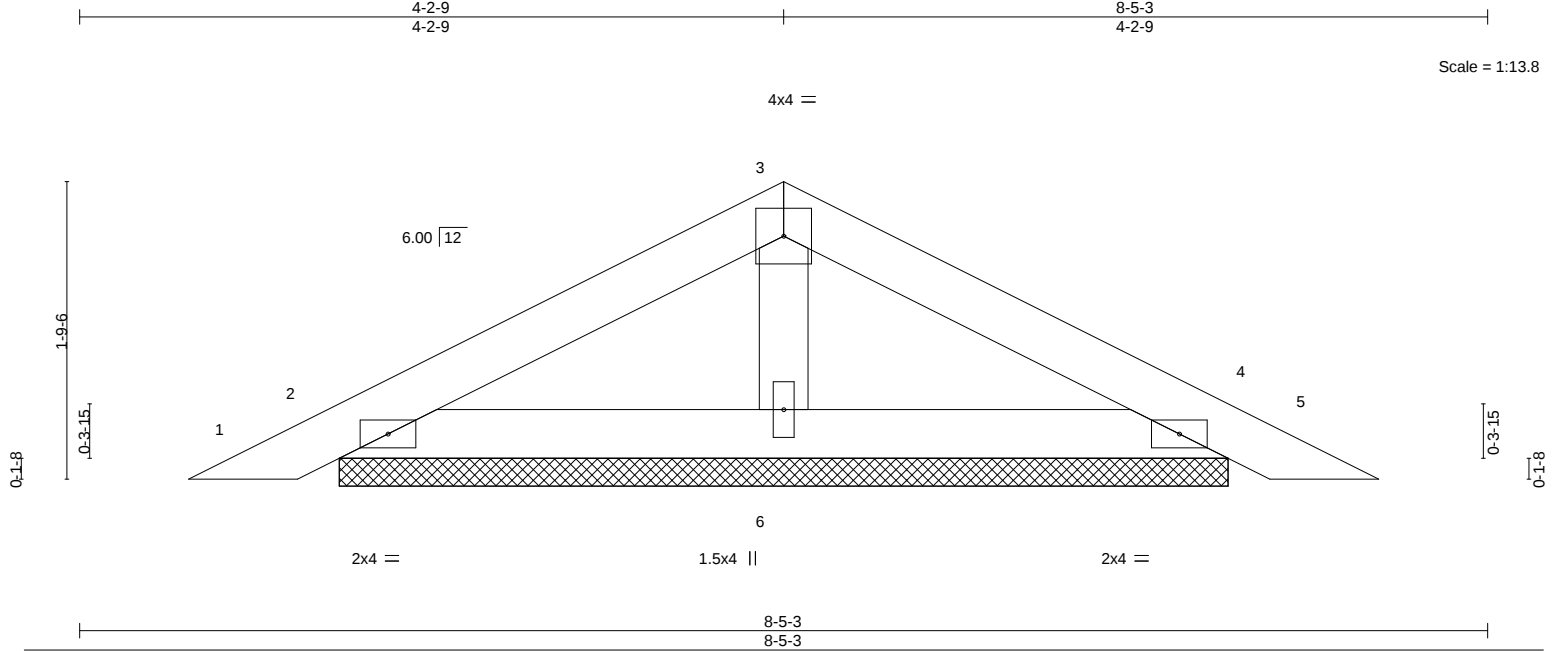
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069796
MEGAN_HOLLOWAY	PB02	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:52 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-xmBpNfm3KjvhuEQRM_mnRHLQLL4iSSbwOj?UPyPZ0n



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.13	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.08	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 21 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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

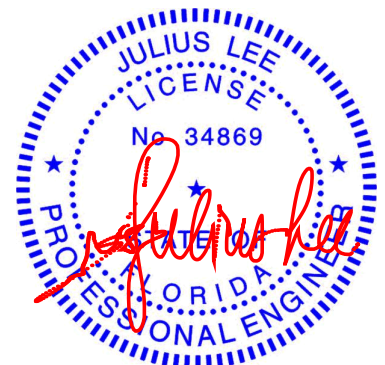
REACTIONS.

(size) 2=5-3-14, 4=5-3-14, 6=5-3-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=145(LC 1), 4=145(LC 1), 6=205(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

October 27, 2022

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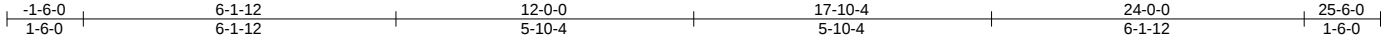
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069797
MEGAN_HOLLOWAY	T01	Common	7	1		

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:54 2022 Page 1

ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-u9IzoLoJsK9P7YapUPoFWiRdv9riAHuuNiC6YHyPZ0I



Scale = 1:45.3

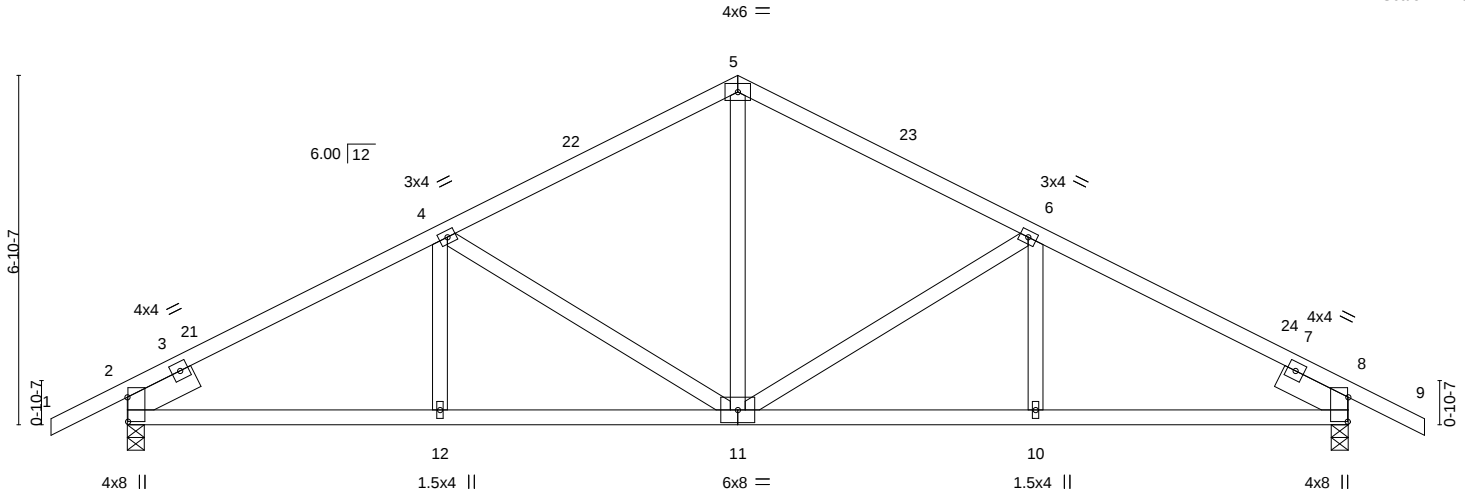


Plate Offsets (X,Y)--	[2:0-5-12,0-0-2], [8:0-5-12,0-0-2]
-----------------------	------------------------------------

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.08 10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.20 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 127 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

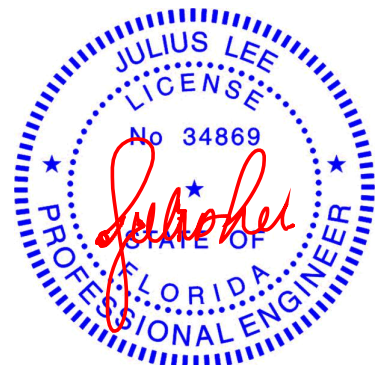
(size) 2=0-4-0, 8=0-4-0
 Max Horz 2=111(LC 11)
 Max Uplift 2=-37(LC 12), 8=-37(LC 12)
 Max Grav 2=1050(LC 1), 8=1050(LC 1)

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

TOP CHORD 2-4=-1444/112, 4-5=-1070/149, 5-6=-1070/149, 6-8=-1444/112
 BOT CHORD 2-12=-14/1215, 11-12=-14/1215, 10-11=-25/1215, 8-10=-25/1215
 WEBS 5-11=-12/521, 6-11=-423/72, 4-11=-423/72

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



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

October 27,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069798
MEGAN_HOLLOWAY	T01GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:55 2022 Page 1
ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-MLsx0hpxdeHGIl9026KU3wzvUZKSvoT2cMxf5jyPZ0k

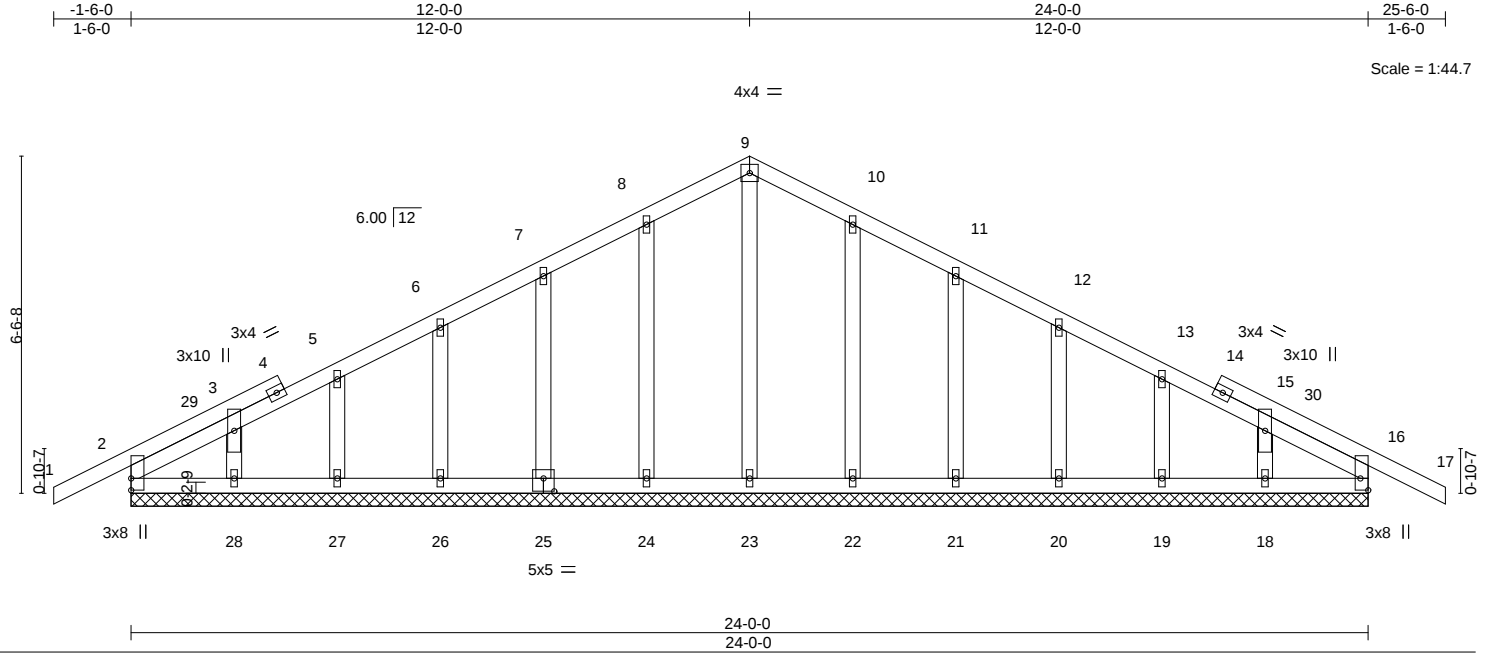


Plate Offsets (X,Y)-- [16:Edge,0-1-13], [25:0-2-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.01	17	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	17	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	16	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-25: 2x4 SP 2400F 2.0E
OTHERS 2x4 SP No.2

BRACING-

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

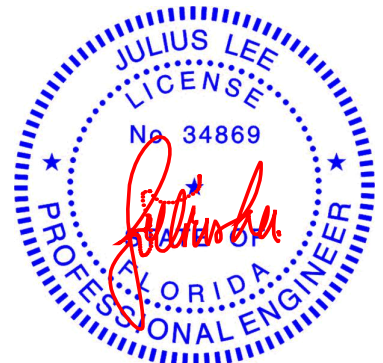
REACTIONS.

All bearings 24-0-0.
(lb) - Max Horz 2=106(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 25-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Solid blocking is required on both sides of the truss at joint(s), 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18.



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

October 27, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069799
MEGAN_HOLLOWAY	T02	Common	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:56 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-qXQJD1pZOyP7MrkCbqrib7WzMyXjeBBBr?hCdAyPZ0j

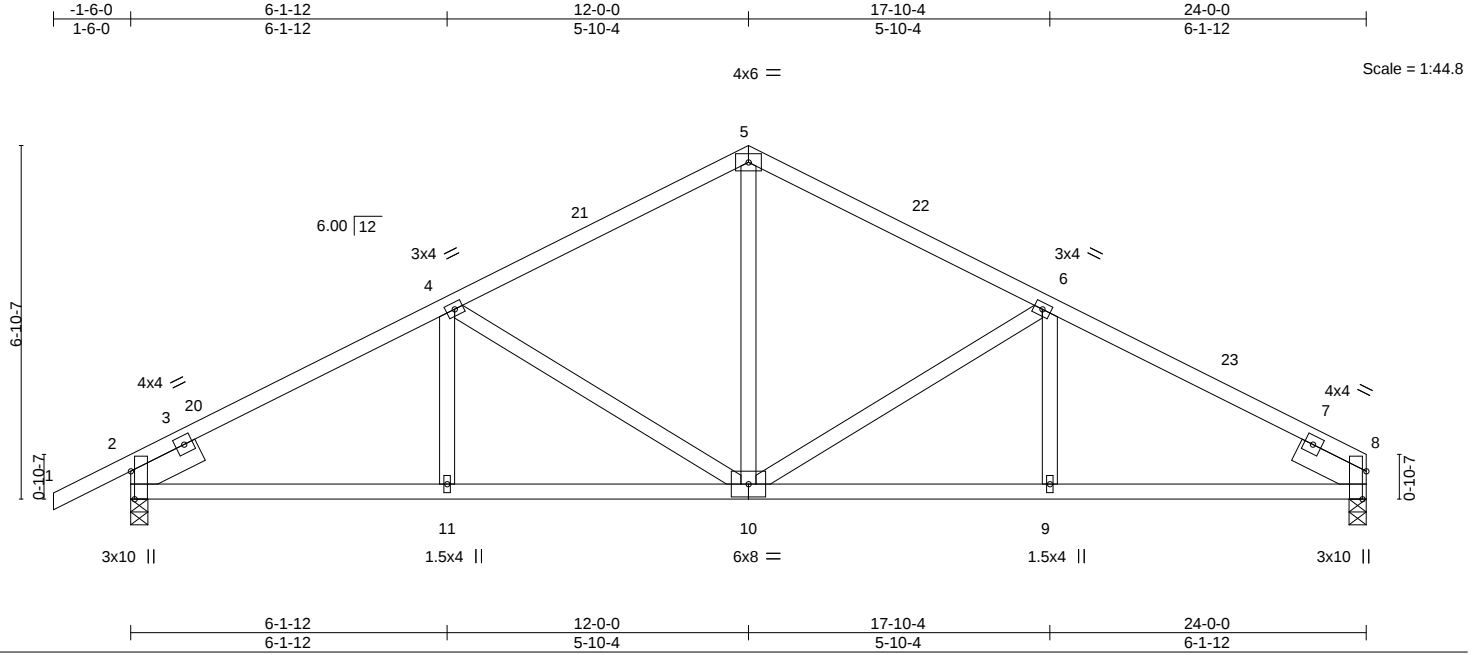


Plate Offsets (X,Y)--		[2:0-6-8,Edge], [8:0-6-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.08	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.20	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 124 lb	FT = 20%

LUMBER-

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

REACTIONS.

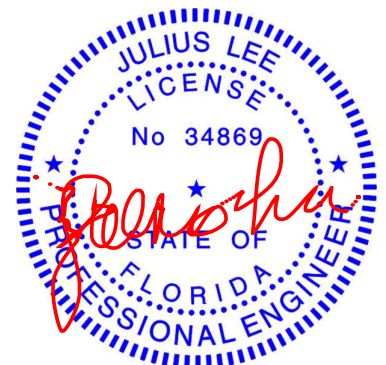
(size) 8=0-4-0, 2=0-4-0
Max Horz 2=109(LC 11)
Max Uplift 2=-38(LC 12)
Max Grav 8=957(LC 1), 2=1053(LC 1)

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

TOP CHORD 2-4=-1449/116, 4-5=-1075/150, 5-6=-1076/153, 6-8=-1461/124
BOT CHORD 2-11=-53/1220, 10-11=-53/1220, 9-10=-49/1233, 8-9=-49/1233
WEBS 5-10=-17/524, 6-10=-439/74, 4-10=-423/72

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 24-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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

October 27,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

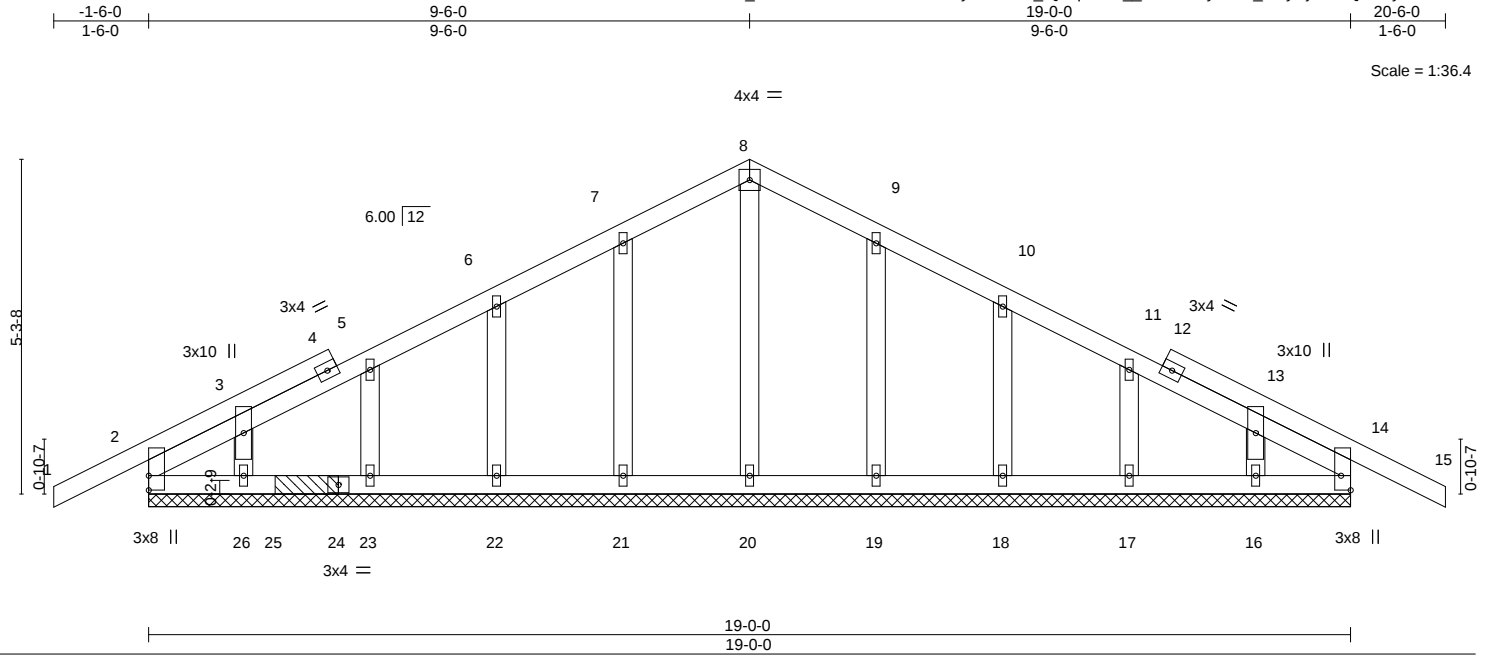


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069800
MEGAN_HOLLOWAY	T02GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:57 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-Ik_iQNqB8FX_?JO9XMy8L3F_M0yNjML4fQm9cyPZ0i



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01 15 n/r 120	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01 15 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00 14 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 110 lb FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except*
14-24: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

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

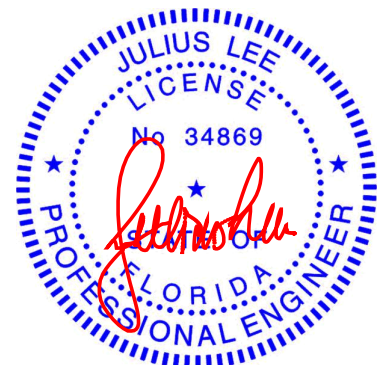
REACTIONS.

All bearings 19'-0".
(lb) - Max Horz 2=85(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 26, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 26, 19, 18, 17, 16

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1'-6" to 1'-6", Exterior(2N) 1'-6" to 9'-6", Corner(3R) 9'-6" to 12'-6", Exterior(2N) 12'-6" to 20'-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" 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Solid blocking is required on both sides of the truss at joint(s), 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 26, 19, 18, 17, 16.



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

October 27, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069801
MEGAN_HOLLOWAY	T03	Common	6	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:59 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-E66Sr2sSgtmDJTnHyOQDm8Z2AeCrXmDXztEVyPZ0g

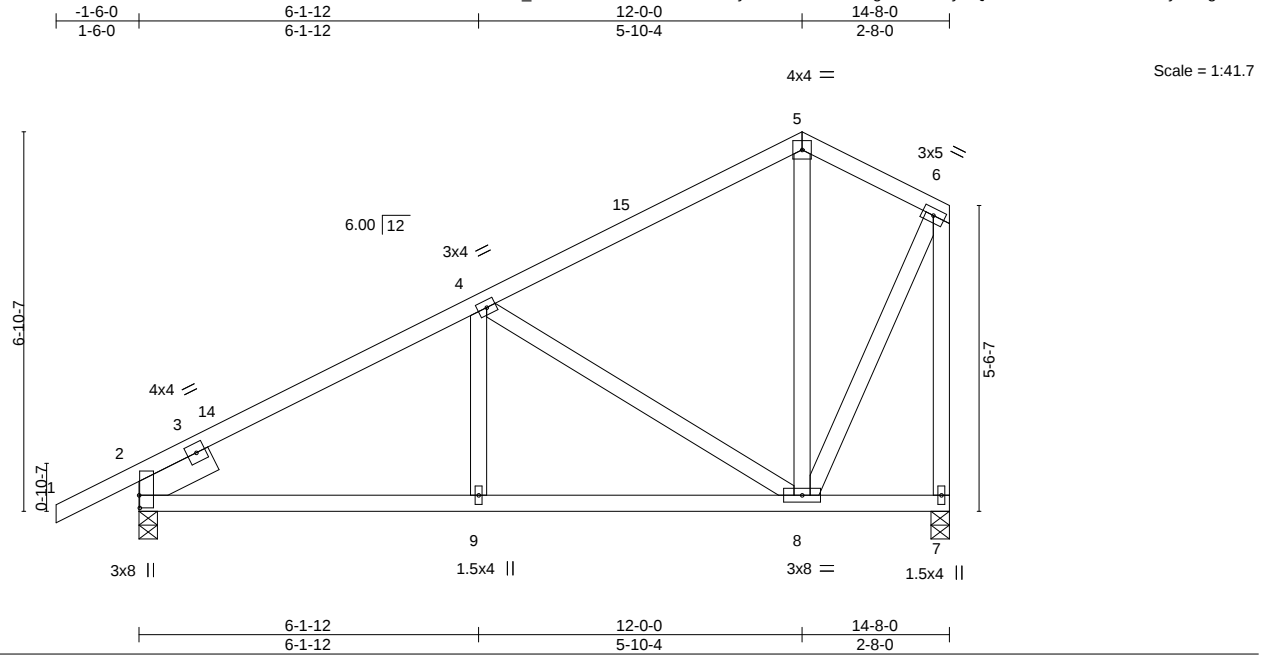


Plate Offsets (X,Y)--		[2:0-2-12,0-0-2]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.29		Vert(LL)	-0.03 8-9	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.30		Vert(CT)	-0.06 8-9	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.39		Horz(CT)	0.01 7	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-AS						Weight: 92 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

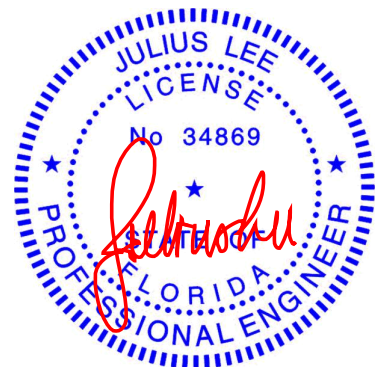
(size) 2=0-4-0, 7=0-4-0
Max Horz 2=186(LC 11)
Max Uplift 2=-34(LC 12), 7=-2(LC 12)
Max Grav 2=675(LC 1), 7=576(LC 1)

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

TOP CHORD 2-4=-750/118, 4-5=-312/114, 6-7=-567/147
BOT CHORD 2-9=-237/616, 8-9=-237/616
WEBS 4-8=-485/155, 6-8=-139/470

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2E) 12-0-0 to 14-6-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



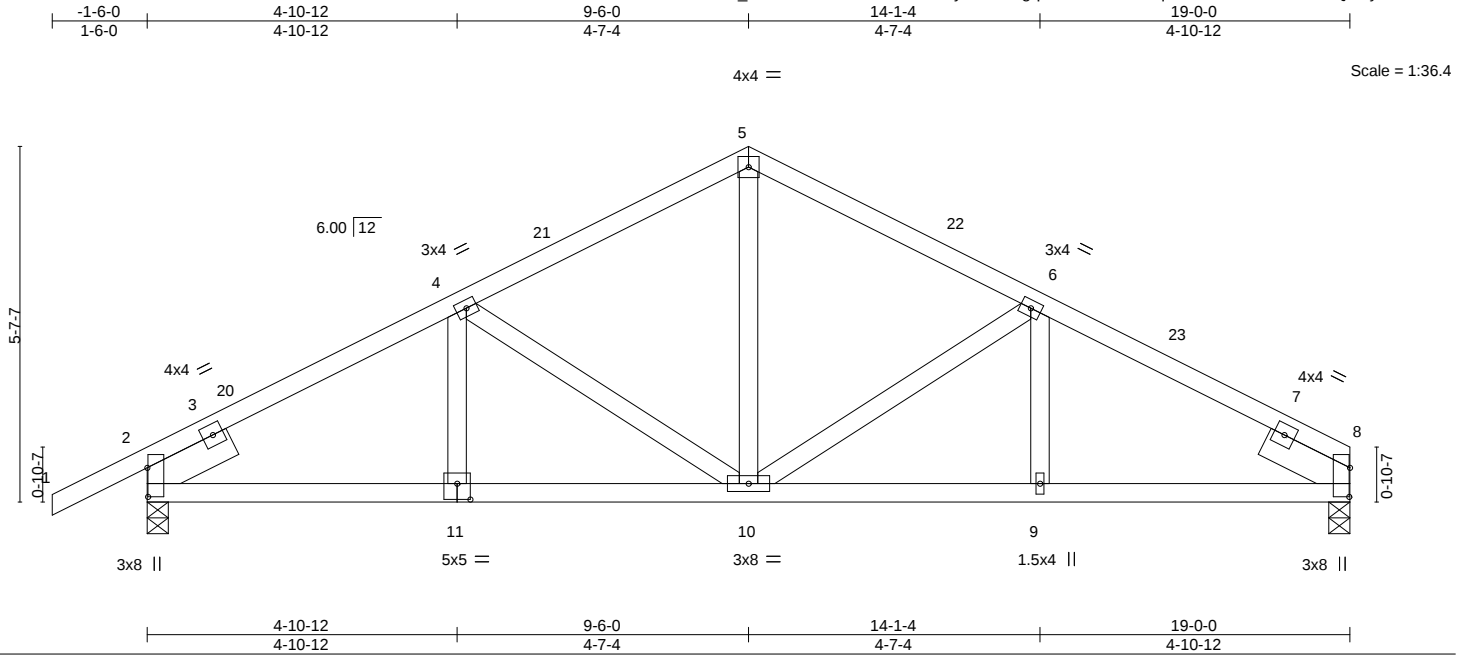
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069802
MEGAN_HOLLOWAY	T04	Common	5	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:00 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-ilgq3Os4RAvZrT2zqfvmzhiWaw2a2MnmfQmxyPZ0f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.04 9-10 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.09 9-10 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03 8 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
								Weight: 101 lb		FT = 20%	

LUMBER-

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

REACTIONS.

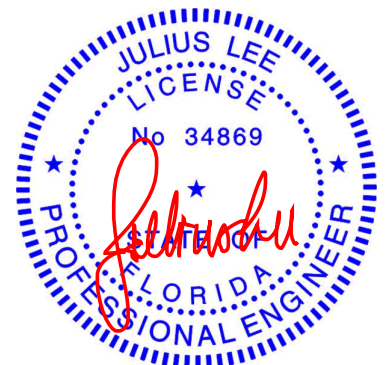
(size) 8=0-4-0, 2=0-4-0
 Max Horz 2=88(LC 11)
 Max Uplift 2=38(LC 12)
 Max Grav 8=756(LC 1), 2=854(LC 1)

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

TOP CHORD 2-4=-1090/146, 4-5=-841/150, 5-6=-842/155, 6-8=-1095/147
 BOT CHORD 2-11=-83/911, 10-11=-83/911, 9-10=-75/921, 8-9=-75/921
 WEBS 5-10=-26/417, 6-10=-299/83, 4-10=-284/86

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 19-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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

October 27,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



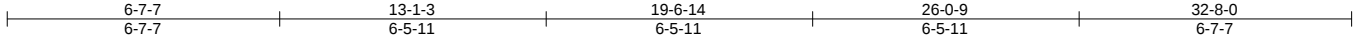
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069803
MEGAN_HOLLOWAY	T05	Flat Girder	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:03 2022 Page 1

ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-7iLzhQvyk5H7iwmYWoTMNcJEGnx8nEoDSbt4NGyPZ0c



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

Scale = 1:56.0

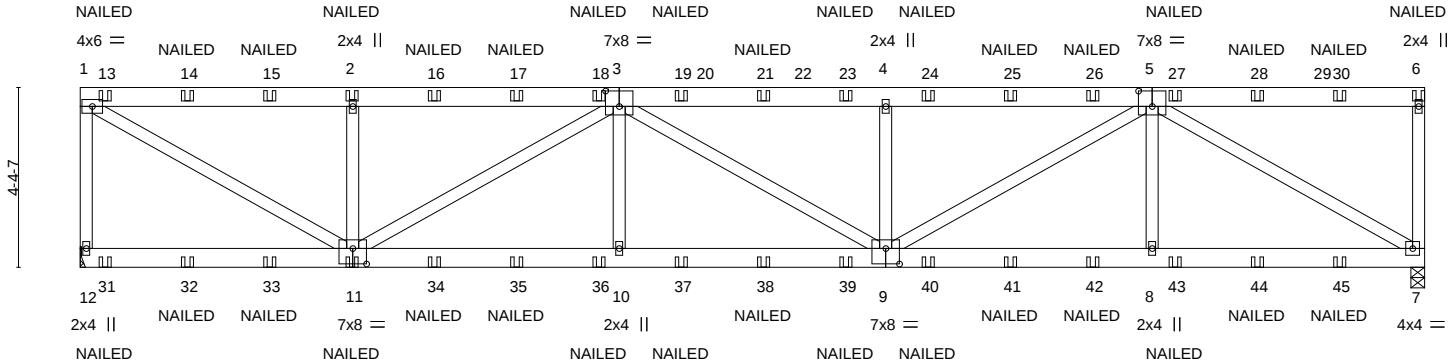


Plate Offsets (X,Y)--	[3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.56	Vert(LL) -0.13 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.88	Vert(CT) -0.27 9-10 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 472 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 12=Mechanical, 7=0-4-0
Max Horz 12=-110(LC 19)
Max Uplift 12=-107(LC 8), 7=-145(LC 8)
Max Grav 12=2819(LC 1), 7=2826(LC 1)

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

TOP CHORD 1-12=-2632/204, 1-2=-3781/216, 2-3=-3781/216, 3-4=-5596/288, 4-5=-5596/288, 6-7=-521/139
BOT CHORD 10-11=-142/5501, 9-10=-142/5501, 8-9=-106/3676, 7-8=-106/3676
WEBS 1-11=-208/4359, 2-11=-939/256, 3-11=-2009/0, 3-10=0/639, 4-9=-955/256, 5-9=-168/2243, 5-8=0/628, 5-7=-4228/117

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=107, 7=145.
- "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
Date:

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069803
MEGAN_HOLLOWAY	T05	Flat Girder	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:03 2022 Page 2
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-7tLzhQvyk5H7iwmYWoTMNcJEGnx8nEoDSbt4NGyPZ0c

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 6=-157(F) 11=-55(F) 2=-125(F) 13=-141(F) 14=-125(F) 15=-125(F) 16=-125(F) 17=-125(F) 18=-125(F) 19=-125(F) 21=-125(F) 23=-125(F) 24=-125(F)

25=-125(F) 26=-125(F) 27=-125(F) 28=-125(F) 30=-125(F) 31=-61(F) 32=-55(F) 33=-55(F) 34=-55(F) 35=-55(F) 36=-55(F) 37=-55(F) 38=-55(F) 39=-55(F)

40=-55(F) 41=-55(F) 42=-55(F) 43=-55(F) 44=-55(F) 45=-55(F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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October 27, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



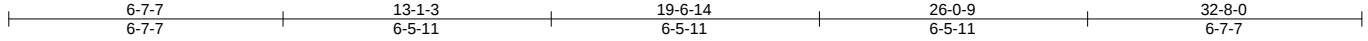
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069804
MEGAN_HOLLOWAY	T06	Flat	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:04 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-b4vLumwaVPP_K4Lk3V_bwprOxBKLWhqMhFddviyPZ0b



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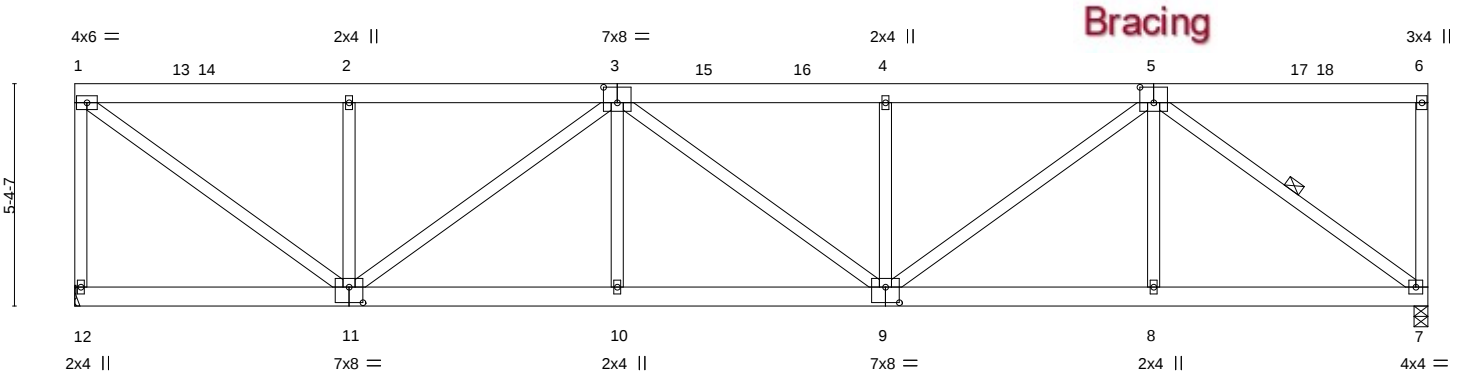


Plate Offsets (X,Y)--	[3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	Vert(LL) -0.08	9-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.18	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 249 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-7

REACTIONS.

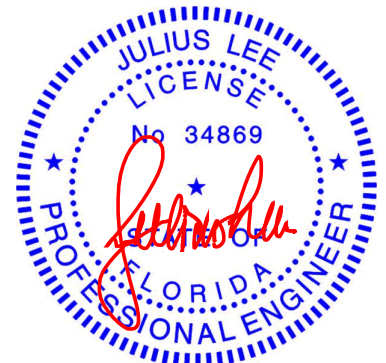
(size) 12=Mechanical, 7=0-4-0
Max Horz 12=-138(LC 8)
Max Grav 12=1295(LC 1), 7=1295(LC 3)

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

TOP CHORD 1-12=-1223/350, 1-2=-1420/381, 2-3=-1420/381, 3-4=-2104/518, 4-5=-2104/518
BOT CHORD 10-11=-542/2064, 9-10=-542/2064, 8-9=-349/1380, 7-8=-349/1380
WEBS 1-11=-448/1756, 2-11=-461/242, 3-11=-808/163, 3-10=0/315, 4-9=-471/239,
5-9=-273/909, 5-8=0/307, 5-7=-1702/386

NOTES-

- Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 29-6-4, Corner(3) 29-6-4 to 32-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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October 27,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069805
MEGAN_HOLLOWAY	T07	PIGGYBACK BASE	1	1	Job Reference (optional)	

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:07 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-?fbUXnyToKozBY4JldXIYStxVOO?j4CpNdrIW1yPZOY

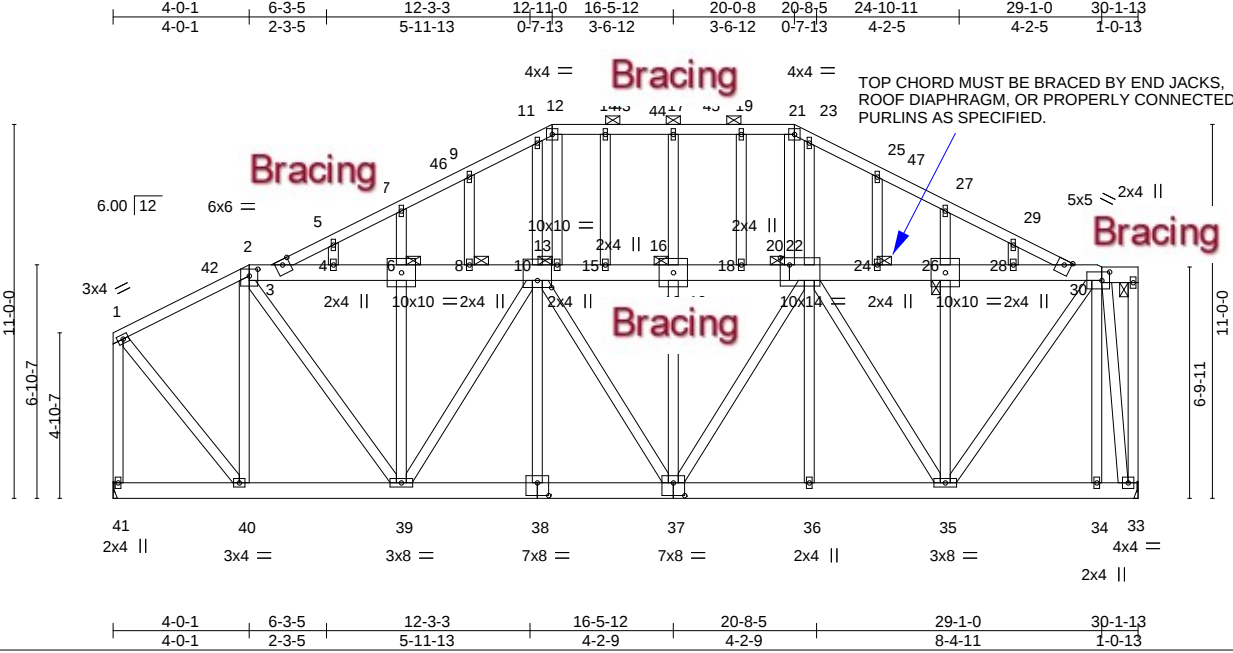
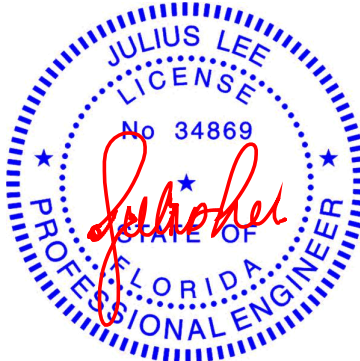


Plate Offsets (X,Y)--		[2:0-3-0-0-2-7], [10:0-5-0-0-2-8], [20:0-3-4-0-2-8], [31:0-2-12-0-3-0], [37:0-4-0-0-4-8], [38:0-4-0-0-4-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	TC 0.26
		BC 0.18
		WB 0.72
		Matrix-AS
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.03 38 >999 240
	Vert(CT)	-0.06 37-38 >999 180
	Horz(CT)	0.02 33 n/a n/a
	PLATES	MT20
	GRIP	244/190
	Weight:	388 lb
	FT =	20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SP No.2 *Except*	Structural wood sheathing directly applied, except end verticals, and
31-32,2-20,20-31: 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 12-21, 2-32.
BOT CHORD	Rigid ceiling directly applied.
2x6 SP No.2	1 Brace at Jt(s): 32, 13, 20, 24, 26, 8, 6, 16
WEBS	2x4 SP No.2
REACTIONS.	
(size) 33=Mechanical, 41=Mechanical	
Max Horz 41=256(LC 11)	
Max Uplift 33=-60(LC 12), 41=-47(LC 12)	
Max Grav 33=1194(LC 1), 41=1194(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	
1-2=-740/109, 12-14=-528/137, 14-17=-528/137, 17-19=-528/137, 19-21=-528/137,	
2-3=-945/136, 3-4=-484/145, 4-6=-484/145, 6-8=-484/145, 8-10=-484/145,	
10-13=-511/153, 13-15=-506/152, 15-16=-506/152, 16-18=-506/152, 18-20=-506/152,	
20-22=-509/152, 22-24=-257/153, 24-26=-257/153, 26-28=-257/153, 28-30=-257/153,	
30-31=-721/151, 1-41=-1158/128, 3-5=-612/35, 5-7=-596/65, 7-9=-619/102,	
9-11=-614/133, 11-12=-566/146, 21-23=-546/133, 23-25=-617/125, 25-27=-623/94,	
27-29=-597/55, 29-30=-614/25	
BOT CHORD	
39-40=-214/711, 38-39=-216/1043, 37-38=-216/1043, 36-37=-149/882, 35-36=-149/882	
WEBS	
2-40=-663/135, 1-40=-94/966, 26-35=-371/137, 6-39=-342/127, 2-39=-89/604,	
22-37=-67/373, 22-35=-349/30, 31-35=-124/934, 31-33=-1072/115	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-15, Interior(1) 3-1-15 to 12-11-0, Exterior(2R) 12-11-0 to 15-11-3, Interior(1) 15-11-3 to 30-0-1, Exterior(2R) 20-0-8 to 23-0-11, Interior(1) 23-0-11 to 28-3-10 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 41.
 - 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.



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

October 27,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069806
MEGAN_HOLLOWAY	T08	PIGGYBACK BASE GIRDE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:08 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-Tr9sk7z5ZdwQpifWIL2X4f02zodbSSaybtr2TyPZOX

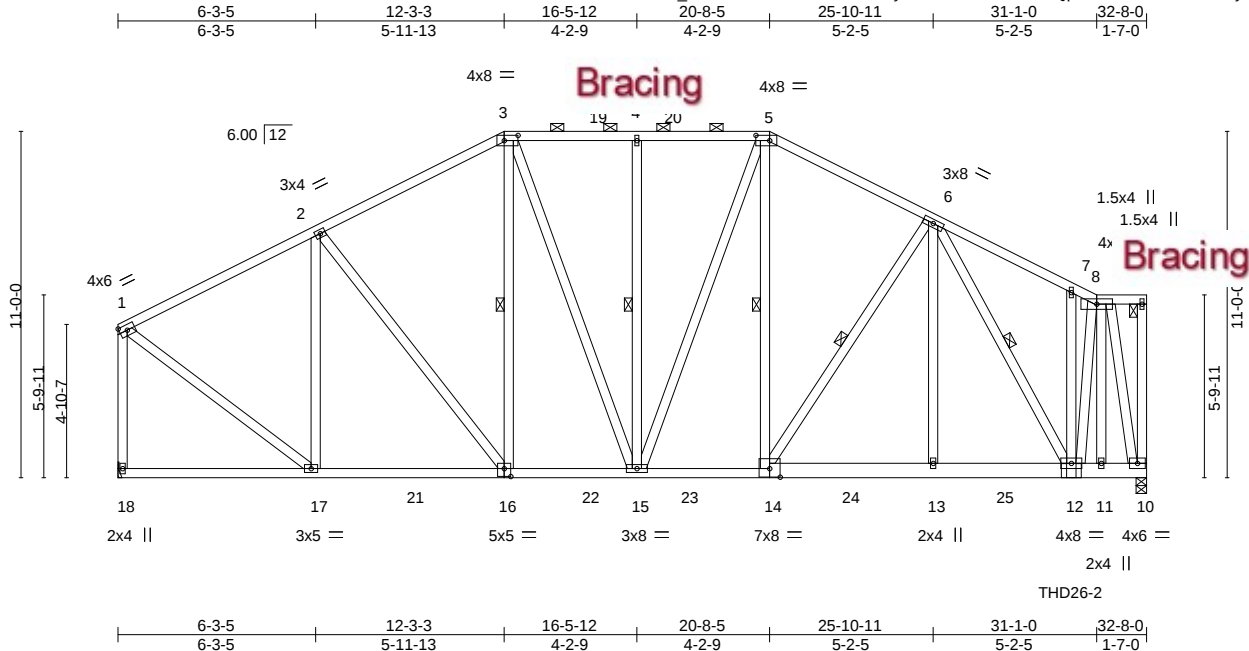


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [14:0-4-0,0-3-4], [16:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	Vert(LL)	-0.09 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.60	Vert(CT)	-0.16 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.97	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 310 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-14: 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-10 max.): 3-5, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-16, 4-15, 5-14, 6-14, 6-12

REACTIONS.

(size) 10=0-4-0, 18=Mechanical
Max Horz 18=246(LC 7)
Max Uplift 10=-190(LC 8), 18=-13(LC 8)
Max Grav 10=1952(LC 30), 18=1531(LC 29)

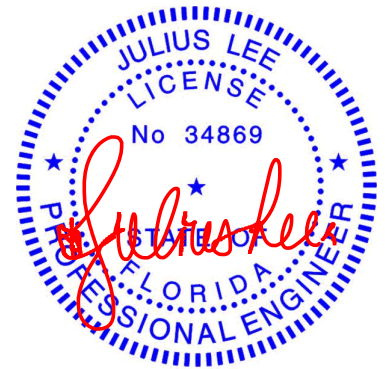
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1259/83, 2-3=-1339/137, 3-4=-1210/143, 4-5=-1210/143, 5-6=-1349/151,
6-7=-893/182, 7-8=-840/133, 1-18=-1446/45
BOT CHORD 16-17=-46/1164, 15-16=-9/1194, 14-15=0/1169, 13-14=-2/1164, 12-13=-2/1161,
11-12=-51/519, 10-11=-51/520
WEBS 2-17=-523/70, 3-15=-29/334, 4-15=-276/49, 5-15=-48/312, 6-13=0/328, 8-10=-1925/194,
1-17=0/1285, 6-12=-1039/64, 8-12=-121/1455

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 10=190.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 30-3-5 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- 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



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

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway
MEGAN_HOLLOWAY	T08	PIGGYBACK BASE GIRDE	1	1	T29069806
					Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:09 2022 Page 2
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-y1iEyTzjKx2HQReis2amdtYDjCzqBvq6qXKOavyPZ0W

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-8=-60, 8-9=-60, 10-18=-20
Concentrated Loads (lb)
Vert: 12=-426(F)



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069807
MEGAN_HOLLOWAY	T09	PIGGYBACK BASE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:10 2022 Page 1

ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-QEGc9p_L5FA82?ouQm50A45KlcFAwPgF3B4y7MyPZ0V



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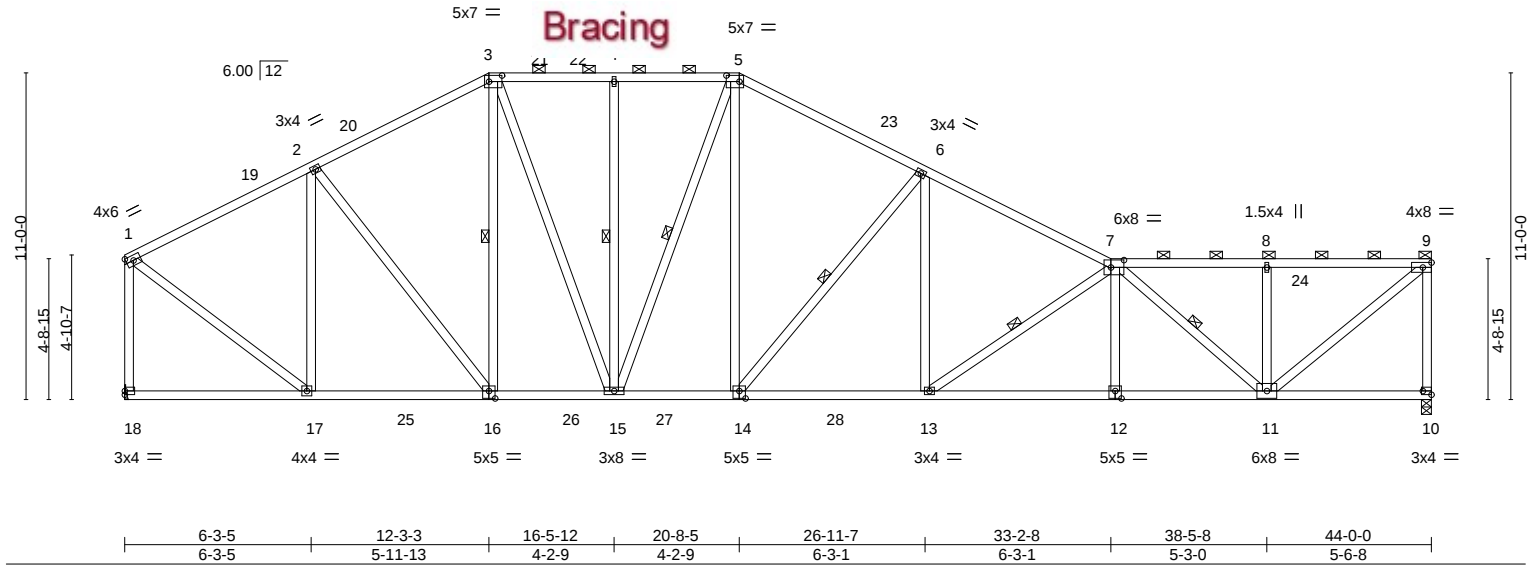


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [5:0-5-4,0-2-8], [7:0-5-4,0-3-0], [10:Edge,0-1-8], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL)	-0.26 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.85	Vert(CT)	-0.46 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT)	0.13 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 331 lb	FT = 20%

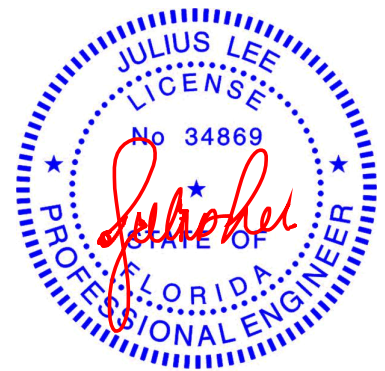
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-14 max.): 3-5, 7-9.
BOT CHORD 2x4 SP No.2 *Except* 12-14: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-16, 4-15, 5-15, 6-14, 7-13, 7-11

REACTIONS. (size) 10=0-4-0, 18=Mechanical
Max Horz 18=-243(LC 10)
Max Grav 10=1958(LC 18), 18=1998(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1674/139, 2-3=-1927/204, 3-4=-1938/215, 4-5=-1938/215, 5-6=-2391/214, 6-7=-3213/171, 7-8=-2178/105, 8-9=-2178/105, 9-10=-1872/105, 1-18=-1910/130
BOT CHORD 16-17=-152/1539, 15-16=-120/1725, 14-15=-116/2062, 13-14=-150/2780, 12-13=-179/3573, 11-12=-177/3578
WEBS 2-17=-775/138, 2-16=0/436, 3-16=-251/40, 3-15=-40/829, 4-15=-257/66, 5-15=-381/38, 5-14=-25/1116, 6-14=-1228/93, 6-13=0/907, 7-13=-1024/65, 7-11=-1931/88, 8-11=-347/87, 9-11=-101/2739, 1-17=-78/1744

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl. GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-3-3, Exterior(2R) 12-3-3 to 16-5-12, Interior(1) 16-5-12 to 20-8-5, Exterior(2R) 20-8-5 to 25-1-2, Interior(1) 25-1-2 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 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.



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

October 27,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069808
MEGAN_HOLLOWAY	T10	PIGGYBACK BASE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:11 2022 Page 1
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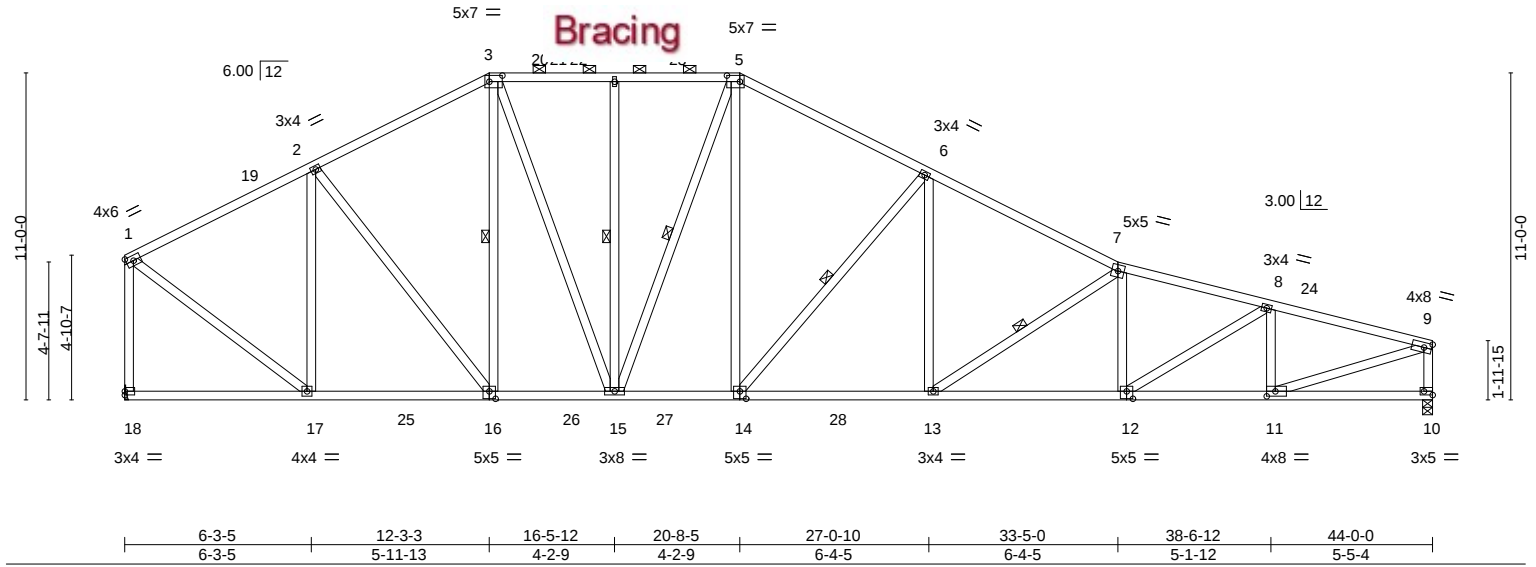


Plate Offsets (X,Y)--		[3:0-5-4,0-2-8], [5:0-5-4,0-2-8], [10:Edge,0-1-8], [11:0-3-8,0-2-0], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	
	TC	0.71
	BC	0.74
	WB	0.80
	Matrix-AS	
	DEFL.	
	in (loc)	I/defl L/d
	Vert(LL)	-0.27 13-14 >999 240
	Vert(CT)	-0.48 13-14 >999 180
	Horz(CT)	0.12 10 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 323 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-15 max.): 3-5.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
12-14: 2x4 SP No.1	WEBS 1 Row at midpt 3-16, 4-15, 5-15, 6-14, 7-13
WEBS 2x4 SP No.2	

REACTIONS.	(size) 18=Mechanical, 10=0-4-0
	Max Horz 18=-242(LC 10)
	Max Grav 18=1992(LC 17), 10=1975(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1669/243, 2-3=-1920/339, 3-4=-1937/358, 4-5=-1937/358, 5-6=-2392/375, 6-7=-3231/367, 7-8=-3812/379, 8-9=-3207/288, 1-18=-1904/235, 9-10=-1878/199
BOT CHORD	16-17=-117/1533, 15-16=-93/1718, 14-15=-116/2050, 13-14=-212/2792, 12-13=-327/3650, 11-12=-273/3049
WEBS	2-17=-774/197, 2-16=-11/436, 3-16=-251/54, 3-15=-92/828, 4-15=-256/91, 5-15=-383/63, 5-14=-91/1112, 6-14=-1233/181, 6-13=0/908, 7-13=-1039/139, 8-12=-58/692, 8-11=-782/157, 1-17=-174/1743, 9-11=-261/3105

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl. GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-3-3, Exterior(2R) 12-3-3 to 18-5-13, Interior(1) 18-5-13 to 20-8-5, Exterior(2R) 20-8-5 to 27-0-10, Interior(1) 27-0-10 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - 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.



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

October 27,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069809
MEGAN_HOLLOWAY	T11	PIGGYBACK BASE	1	1	Job Reference (optional)	

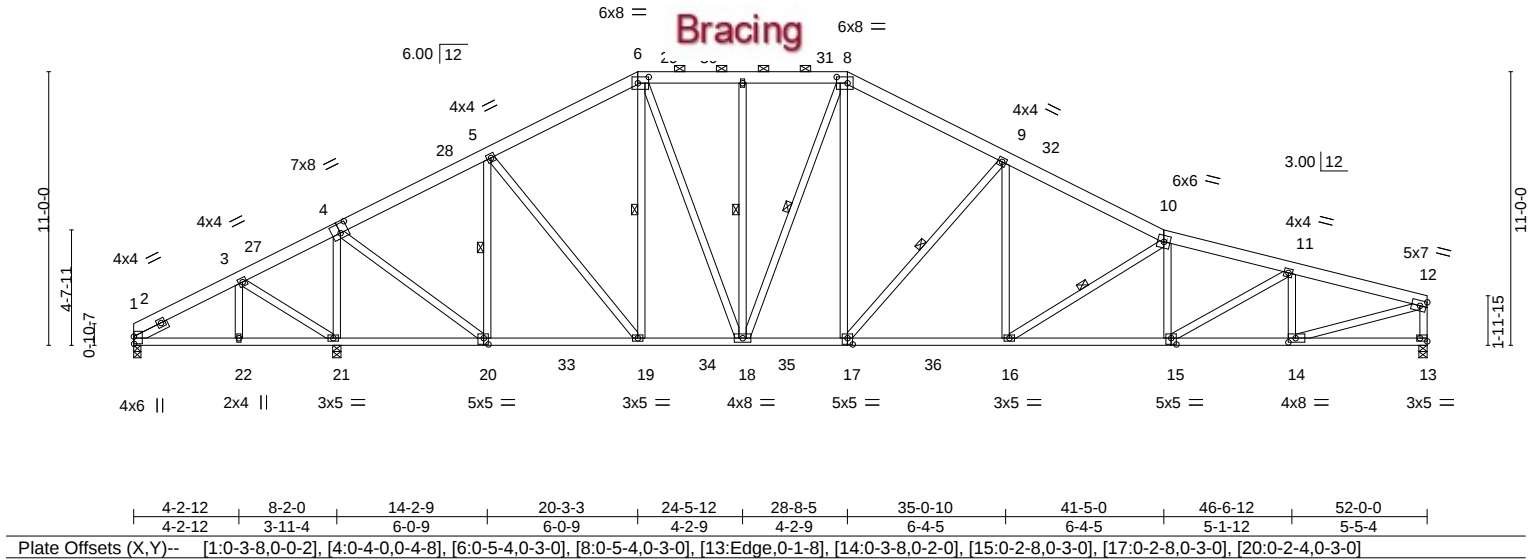
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:13 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-qpylnr0ENAYjvTXT5uejnjjyZp17phl9lchjyPZOS

4-2-12	8-2-0	14-2-9	20-3-3	24-5-12	28-8-5	35-0-10	41-5-0	46-6-12	52-0-0
4-2-12	3-11-4	6-0-9	6-0-9	4-2-9	4-2-9	6-4-5	6-4-5	5-1-12	5-5-4

Scale = 1:92.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.23 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.41 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.10 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 404 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (5-7-5 max.): 6-8.
15-17: 2x4 SP No.1	Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-20, 6-19, 7-18, 8-18, 9-17, 10-16
SLIDER Left 2x4 SP No.2 1-6-0	

REACTIONS. (size) 1=0-3-8, 21=0-4-0, 13=0-4-0
Max Horz 1=198(LC 11)
Max Uplift 1=-232(LC 24)
Max Grav 1=26(LC 21), 21=2999(LC 17), 13=1895(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-71/614, 3-4=-108/1021, 4-5=-1090/223, 5-6=-1667/332, 6-7=-1727/364,
7-8=-1727/364, 8-9=-2203/388, 9-10=-3053/392, 10-11=-3666/407, 11-12=-3128/313,
12-13=-1798/196
BOT CHORD 1-22=-540/64, 21-22=-540/64, 20-21=-897/150, 19-20=-82/1020, 18-19=-66/1445,
17-18=-100/1851, 16-17=-198/2634, 15-16=-316/3514, 14-15=-269/2970
WEBS 3-21=-559/107, 4-21=-2476/324, 4-20=-227/2238, 5-20=-1173/200, 5-19=0/767,
6-19=-397/67, 6-18=-110/861, 8-18=-499/65, 8-17=-95/1122, 9-17=-1241/191,
9-16=0/911, 10-16=-1059/143, 11-15=-59/625, 11-14=-701/153, 12-14=-263/2983

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-2-6, Interior(1) 5-2-6 to 20-3-3, Exterior(2R) 20-3-3 to 27-7-7, Interior(1) 27-7-7 to 28-8-5, Exterior(2R) 28-8-5 to 36-0-9, Interior(1) 36-0-9 to 51-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=232.
- 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.



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

October 27,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069810
MEGAN_HOLLOWAY	T12	PIGGYBACK BASE	1	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-J90pZ7OVb6Ce1GhCLBk4cP7xcc9wEm9w8nwWOiyPQS8
8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:12:05 2022 Page 1

1-6-0	4-2-12	8-2-0	14-2-9	20-3-3	24-5-12	28-8-5	35-0-10	41-5-0	46-6-12	52-0-0
1-6-0	4-2-12	3-11-4	6-0-9	6-0-9	4-2-9	4-2-9	6-4-5	6-4-5	5-1-12	5-5-4

Scale = 1:93.4

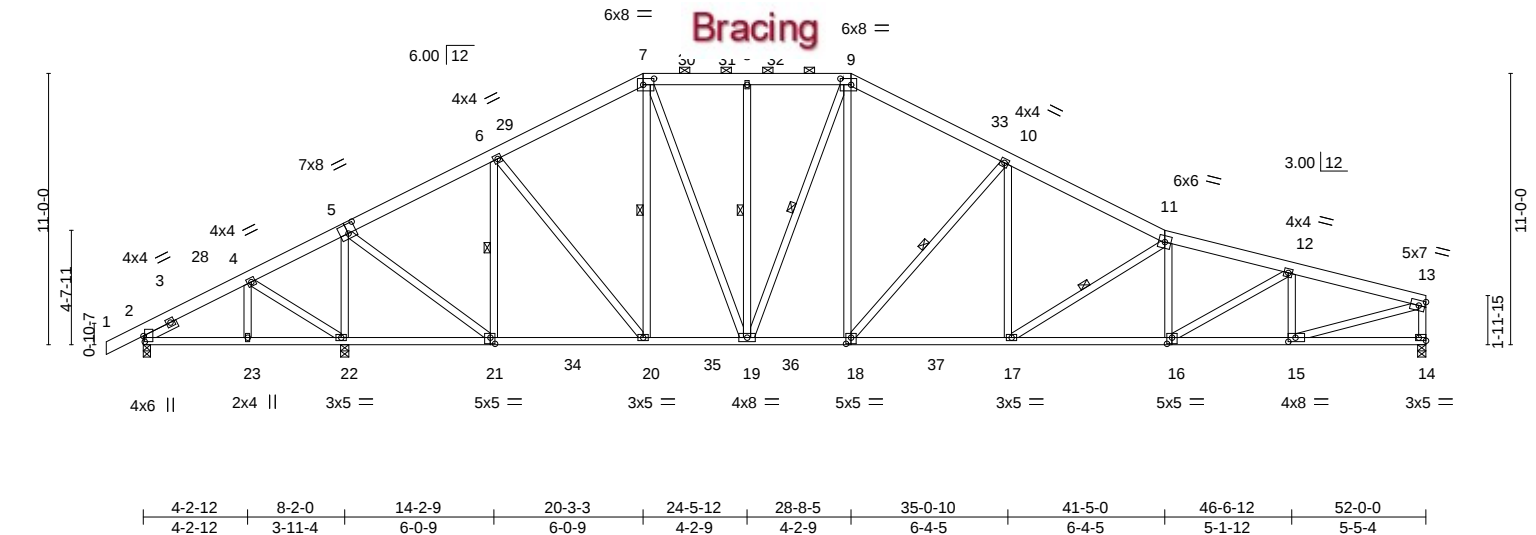


Plate Offsets (X,Y)--	[2:0-2-12,0-0-10], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [14:Edge,0-1-8], [15:0-3-8,0-2-0], [16:0-2-8,0-3-0], [18:0-2-8,0-3-0], [21:0-2-4,0-3-0]
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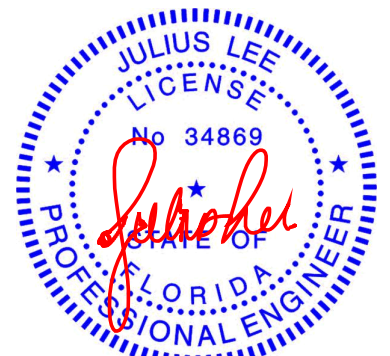
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) -0.23	17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.41	16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.10	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 408 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-6 max.): 7-9.
BOT CHORD 2x4 SP No.2 *Except* 16-18: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-21, 7-20, 8-19, 9-19, 10-18, 11-17
SLIDER Left 2x4 SP No.2 1-6-0	

REACTIONS. (size) 2=0-3-8, 22=0-4-0, 14=0-4-0
Max Horz 2=207(LC 11)
Max Uplift 2=201(LC 24)
Max Grav 2=119(LC 21), 22=2998(LC 17), 14=1894(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-28=77/594, 4-28=66/626, 4-5=99/1033, 5-6=1086/207, 6-29=1664/280, 7-29=1591/310, 7-30=1725/337, 30-31=1725/337, 8-31=1725/337, 8-32=1725/337, 9-32=1725/337, 9-33=2124/354, 10-33=2201/323, 10-11=3052/352, 11-12=3664/368, 12-13=3127/285, 13-14=1797/186
BOT CHORD 2-23=559/73, 22-23=559/73, 21-22=904/144, 21-34=60/1015, 20-34=60/1015, 20-35=45/1442, 19-35=45/1442, 19-36=83/1849, 18-36=83/1849, 18-37=180/2632, 17-37=180/2632, 16-17=296/3513, 15-16=255/2968
WEBS 4-22=540/100, 5-22=2484/296, 5-21=199/2243, 6-21=1177/183, 6-20=0/768, 7-20=398/61, 7-19=91/862, 9-19=499/55, 9-18=80/1122, 10-18=1241/171, 10-17=0/911, 11-17=1059/140, 12-16=47/625, 12-15=700/149, 13-15=249/2981

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-8-6, Interior(1) 3-8-6 to 20-3-3, Exterior(2R) 20-3-3 to 25-5-9, Interior(1) 25-5-9 to 28-8-5, Exterior(2R) 28-8-5 to 33-10-12, Interior(1) 33-10-12 to 51-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 27,2022

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Chesterfield, MO 63017

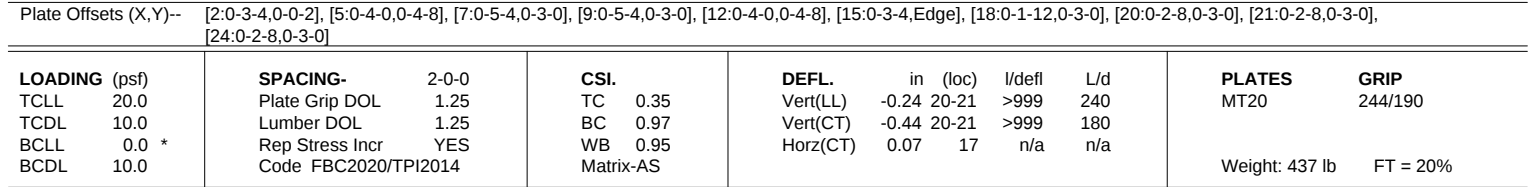
Mayo Truss, Mayo, FL

8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:12:53 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkynWOS-vOwyeXzctFqeqMQ9GbKYX67TzTCUSM?BFY34vyPQRO

1-6-0 4-2-12 8-2-0 14-2-9 20-3-3 24-5-12 28-8-5 35-0-10 41-5-0 45-7-8 49-10-0 53-8-10 58-0-0
1-6-0 4-2-12 3-11-4 6-0-9 6-0-9 4-2-9 4-2-9 6-4-5 6-4-5 4-2-8 4-2-8 3-10-10 4-3-6

Scale = 1:103.2



REACTIONS. (size) 2=0-3-8, 25=0-4-0, 17=0-4-0, 15=0-3-8
 Max Horz 2=-192(LC 10)
 Max Uplift 2=-52(LC 22), 15=-73(LC 23)
 Max Grav 2=210(LC 21), 25=2657(LC 17), 17=2693(LC 18)

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

TOP CHORD	3-4=-1/344, 4-5=-29/723, 5-6=-1108/215, 6-7=-1548/308, 7-34=-1545/331, 8-34=-1545/331, 8-35=-1545/331, 35-36=-1545/331, 9-36=-1545/331, 9-37=-1899/341, 10-37=-1912/306, 10-11=-2423/324, 11-12=-2393/263, 12-13=-1249/150, 13-38=-94/1488, 14-38=-104/1446, 14-15=-65/775
BOT CHORD	2-26=-293/55, 25-26=-293/55, 24-25=-598/124, 24-39=-24/1037, 23-39=-24/1037, 23-40=0/1350, 22-40=0/1350, 22-41=-10/1601, 21-41=-10/1601, 21-42=-109/2084, 20-42=-109/2084, 19-20=-147/2317, 18-19=-72/1262, 17-18=-1421/142, 16-17=-714/77, 15-16=-714/77
WEBS	4-25=-491/89, 5-25=-2168/254, 5-24=-157/1922, 6-24=-978/157, 6-23=0/587, 7-23=-273/50, 7-22=-78/649, 9-22=-285/40, 9-21=-57/794, 10-21=-765/155, 10-20=0/397, 11-20=-273/52, 11-19=-608/140, 12-19=-91/1333, 12-18=-1283/141, 13-18=-229/2930, 13-17=-2303/254, 14-17=-739/84

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl. G Cpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-2-12, Interior(1) 4-2-12 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 58-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 73 lb uplift at joint 15.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27, 2022

Continued on page 2



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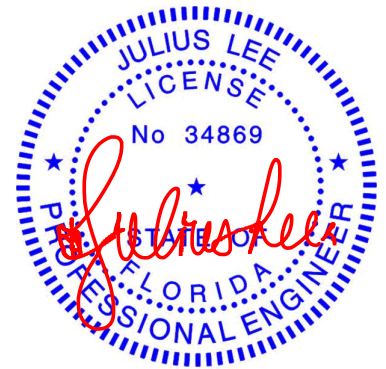
Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069811
MEGAN_HOLLOWAY	T13	PIGGYBACK BASE	1	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:12:53 2022 Page 2
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-vOwyXzctsFqoeMQ9GbKYX67TzTCUSM?BFY34vyPQRO

NOTES-

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



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Date:

October 27, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069812
MEGAN_HOLLOWAY	T14	PIGGYBACK BASE	1	1	Job Reference (optional)	

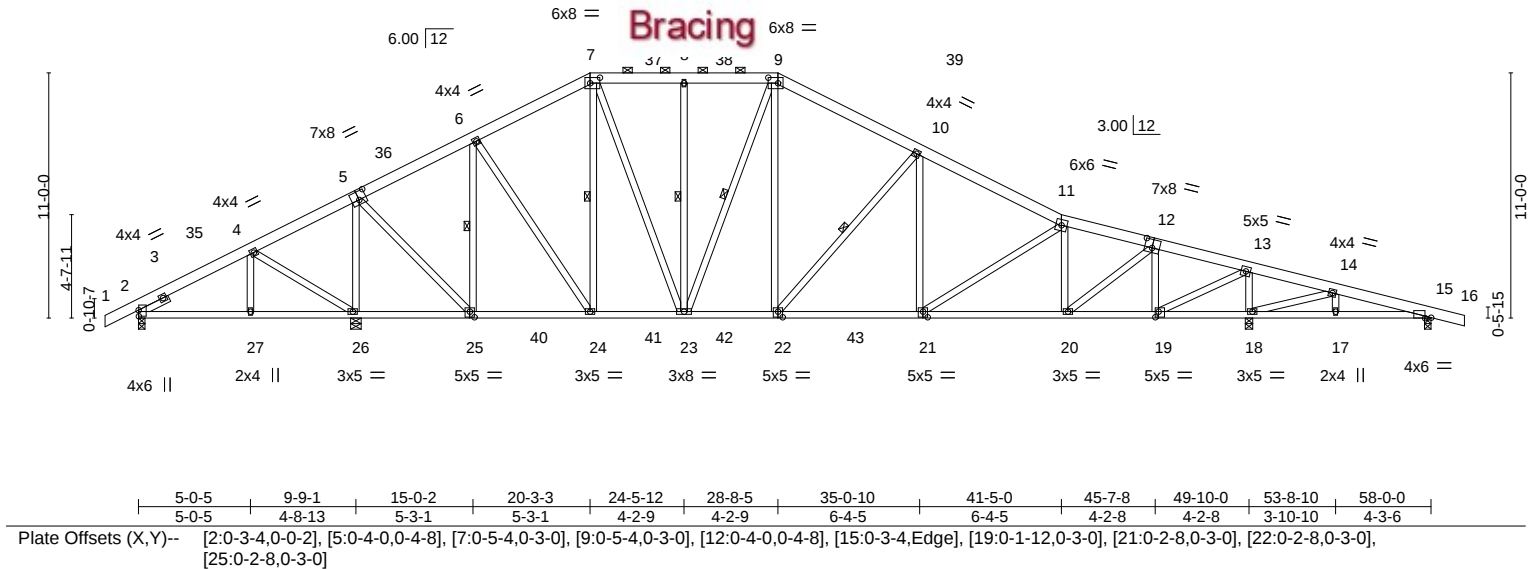
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:18 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-BmleqY4NCiA??EQRuREuUmQoTqzWo_mQvR0NPuyPZ0N

1-6-0 5-0-5 9-9-1 15-0-2 20-3-3 24-5-12 28-8-5 35-0-10 41-5-0 45-7-8 49-10-0 53-8-10 58-0-0 59-6-0
1-6-0 5-0-5 4-8-13 5-3-1 5-3-1 4-2-9 4-2-9 6-4-5 6-4-5 4-2-8 4-2-8 3-10-10 4-3-6 1-6-0

Scale = 1:103.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) -0.23	21-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.43	21-22	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.06	18	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 444 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-25, 7-24, 8-23, 9-23, 10-22

REACTIONS.

All bearings 0-3-8 except (jt=length) 26=0-5-11, 18=0-4-0.
(lb) - Max Horz 2=196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=311(LC 21), 26=2600(LC 17), 18=2591(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=0/633, 5-6=-845/206, 6-7=-1321/295, 7-8=-1384/318, 8-9=-1384/318, 9-10=-1764/330, 10-11=-2284/315, 11-12=-2284/258, 12-13=-1205/159, 13-14=-88/1411, 14-15=-58/733
BOT CHORD 25-26=-523/131, 24-25=0/793, 23-24=0/1148, 22-23=0/1465, 21-22=-92/1959, 20-21=-134/2210, 19-20=-65/1215, 18-19=-1345/134, 17-18=-677/83, 15-17=-677/83
WEBS 4-26=-575/96, 5-26=-2090/236, 5-25=-130/1734, 6-25=-1085/147, 6-24=0/709, 7-24=-388/52, 7-23=-84/744, 9-23=-362/47, 9-22=-60/800, 10-22=-775/157, 10-21=0/409, 11-21=-295/61, 11-20=-560/135, 12-20=-83/1258, 12-19=-1220/134, 13-19=-214/2797, 13-18=-2213/244, 14-18=-699/56

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
- 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.



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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October 27,2022

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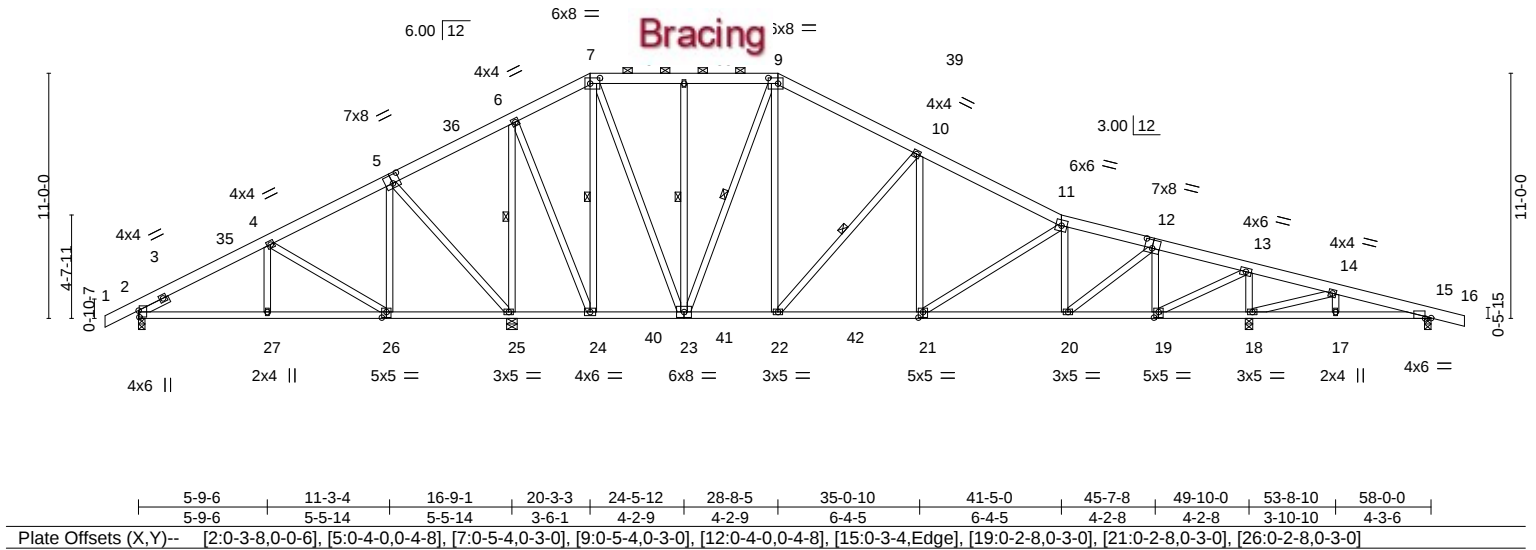
16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069813
MEGAN_HOLLOWAY	T15	PIGGYBACK BASE	1	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:13:39 2022 Page 1
ID:9_WKKVLZ72Nen5bY88LPMkyrWOS-ZEiLiGXT2_2JjItGrwQ6QE0?qvFiGJfmlPhUhfYpQQg

Scale = 1:103.4



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.67	Vert(LL) -0.16 21-22 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.77	Vert(CT) -0.29 21-22 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 18 n/a n/a		
	Code FBC2020/TPI2014			Weight: 449 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-25, 7-24, 8-23, 9-23, 10-22

REACTIONS.

All bearings 0-3-8 except (it=length) 25=0-5-11, 18=0-4-0.
(lb) - Max Horz 2=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=619(LC 21), 25=2541(LC 17), 18=2166(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-303/0, 3-35=-675/74, 4-35=-573/90, 5-36=0/470, 6-36=0/546, 6-7=-262/215,
7-37=-582/249, 8-37=-582/249, 8-38=-582/249, 9-38=-582/249, 9-39=-1022/258,
10-39=-1034/223, 10-11=-1576/252, 11-12=-1703/207, 12-13=-914/133, 13-14=-62/1155,
14-15=-35/497
BOT CHORD 2-27=-2/643, 26-27=-2/643, 24-25=-408/163, 23-41=0/829, 22-41=0/829,
22-42=-35/1325, 21-42=-35/1325, 20-21=-83/1639, 19-20=-39/913, 18-19=-1096/109,
17-18=-450/59, 15-17=-450/59
WEBS 4-26=-606/95, 5-26=0/474, 5-25=-673/102, 6-25=-1832/217, 6-24=-56/1356,
7-24=-1102/97, 7-23=-125/1150, 8-23=-275/97, 9-23=-800/61, 9-22=-42/888,
10-22=-793/168, 10-21=0/429, 11-21=-371/69, 11-20=-357/115, 12-20=-52/920,
12-19=-938/108, 13-19=-159/2197, 13-18=-1796/206, 14-18=-676/54

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gird 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
- 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.



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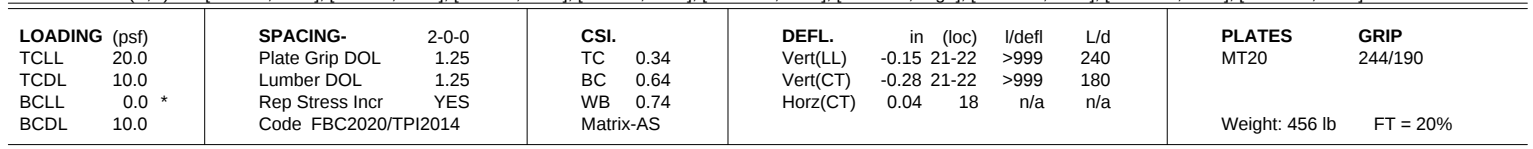
Mayo Truss, Mayo, FL

8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:14:09 2022 Page 1

ID:9_WKKvLZ72Nen5bY88LPMkyrWOS-h?WhbWuH_Cq2vJA1cDy9dZG6VbU6ItZAF3y4IWpPQC

1-6-0 6-5-6 12-7-4 18-9-1 20-3-3 24-5-12 28-8-5 35-0-10 41-5-0 45-7-8 49-10-0 53-8-10 58-0-0 59-6-0
1-6-0 6-5-6 6-1-14 6-1-14 1-6-1 4-2-9 4-2-9 6-4-5 6-4-5 4-2-8 4-2-8 3-10-10 4-3-6 1-6-0

Scale = 1:103.4



REACTIONS. All bearings 0-3-8 except (jt=length) 25=0-5-11, 18=0-4-0.
 (lb) - Max Horz 2=-196(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 15
 Max Grav All reactions 250 lb or less at joint(s) 15 except 2=725(LC 17), 25=2579(LC 17), 18=2049(LC 18)

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

TOP CHORD 2-3=-377/0, 3-35=-837/85, 4-35=-729/103, 4-5=-314/113, 5-36=0/425, 6-36=0/522,
7-37=-366/226, 8-37=-366/226, 8-38=-366/226, 9-38=-366/226, 9-39=-807/236,
10-39=-820/201, 10-11=-1369/231, 11-12=-1527/190, 12-13=-819/123, 13-14=-55/1099,
14-15=-28/445

BOT CHORD 2-27=-5/803, 26-27=-5/803, 24-25=-352/176, 23-42=0/665, 22-42=0/665,
22-43=-16/1138, 21-43=-16/1138, 20-21=-66/1467, 19-20=-30/815, 18-19=-1043/102,
17-18=-400/51, 15-17=-400/51

WEBS 4-27=0/273, 4-26=-683/108, 5-26=0/549, 5-25=-759/122, 6-25=-1696/215,
6-24=-30/1088, 7-24=-1084/53, 7-23=-137/1307, 8-23=-301/99, 9-23=-902/72,
9-22=-42/895, 10-22=-801/169, 10-21=0/439, 11-21=-388/72, 11-20=-317/109,
12-20=-42/827, 12-19=-860/100, 13-19=-141/2031, 13-18=-1681/194, 14-18=-671/53

A circular blue ink stamp is located in the bottom right corner of the page. The text "JULIUS LEE" is curved along the top inner edge, and "ENGINEERS" is curved along the bottom inner edge. The center of the stamp contains a small, stylized graphic that appears to be a building or a similar structure.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 27, 2022

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069815
MEGAN_HOLLOWAY	T17	PIGGYBACK BASE	14	1	Job Reference (optional)	

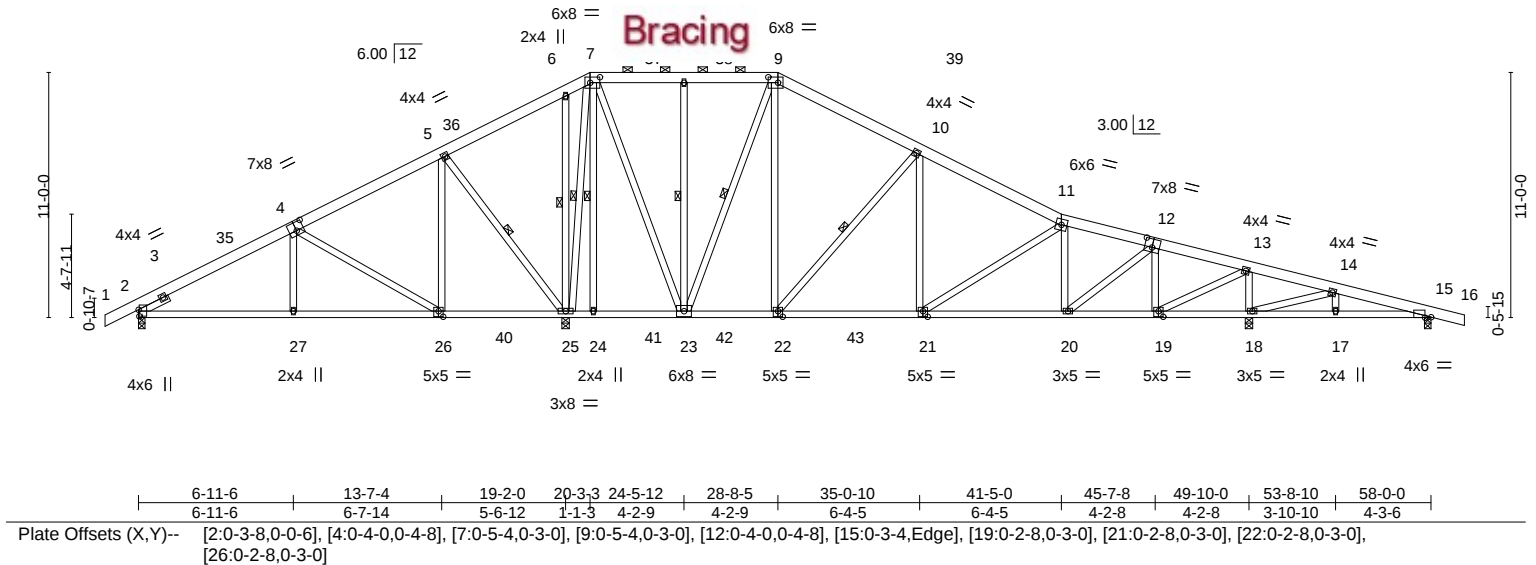
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:23 2022 Page 1

ID:9_WKkVLZ72NenSbY88LPMkyrWOS-XkZXuG8V1Epl6?IOh?g3Bq8gRipTKW92ij846yPZ0I

1-6-0 6-11-6 13-7-4 19-2-0 20-3-3 24-5-12 28-8-5 35-0-10 41-5-0 45-7-8 49-10-0 53-8-10 58-0-0 59-6-0
1-6-0 6-11-6 6-7-14 5-6-12 1-1-3 4-2-9 4-2-9 6-4-5 6-4-5 4-2-8 4-2-8 3-10-10 4-3-6 1-6-0

Scale = 1:103.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL) -0.19 21-22	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.35 21-22	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03 18	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 459 lb	FT = 20%

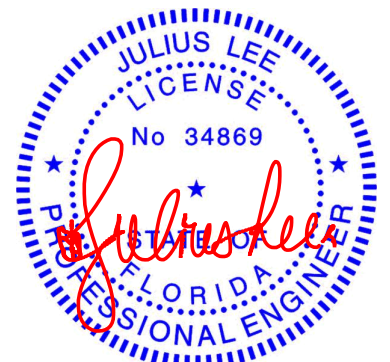
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 7-9.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SP No.2 1-6-0	WEBS 1 Row at midpt 7-24, 8-23, 9-23, 10-22, 6-25, 5-25, 7-25

REACTIONS. All bearings 0-3-8 except (jt=length) 18=0-4-0, 25=0-4-0.
(lb) - Max Horz 2=196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=657(LC 21), 18=1918(LC 18), 25=2743(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-661/92, 5-6=0/707, 6-7=0/538, 9-10=-621/248, 10-11=-1188/237, 11-12=-1391/197,
12-13=-772/129, 13-14=-50/979, 14-15=-24/337
BOT CHORD 2-27=0/584, 26-27=0/581, 24-25=-440/162, 23-24=-441/162, 22-23=0/479,
21-22=-22/976, 20-21=-73/1333, 19-20=-36/763, 18-19=-926/98, 17-18=-296/48,
15-17=-296/48
WEBS 4-27=0/304, 4-26=-656/63, 5-26=0/529, 7-23=-122/1424, 8-23=-281/94, 9-23=-942/91,
9-22=-65/838, 10-22=-836/163, 10-21=0/480, 11-21=-421/73, 11-20=-262/109,
12-20=-43/724, 12-19=-774/101, 13-19=-143/1848, 13-18=-1554/195, 14-18=-659/53,
6-25=-425/121, 5-25=-843/163, 7-25=-1408/87

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
- 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.



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

October 27,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Megan Holloway	T29069816
MEGAN_HOLLOWAY	T18	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:26 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-yJEfWHBOJ9BtZT1zM7NmpSmEp2vYgovckgyohQyPZ0F

1-6-0 20-3-3 24-5-12 28-8-5 41-5-0 58-0-0 59-6-0
1-6-0 20-3-3 4-2-9 4-2-9 12-8-10 16-7-0 1-6-0

Scale = 1:99.8

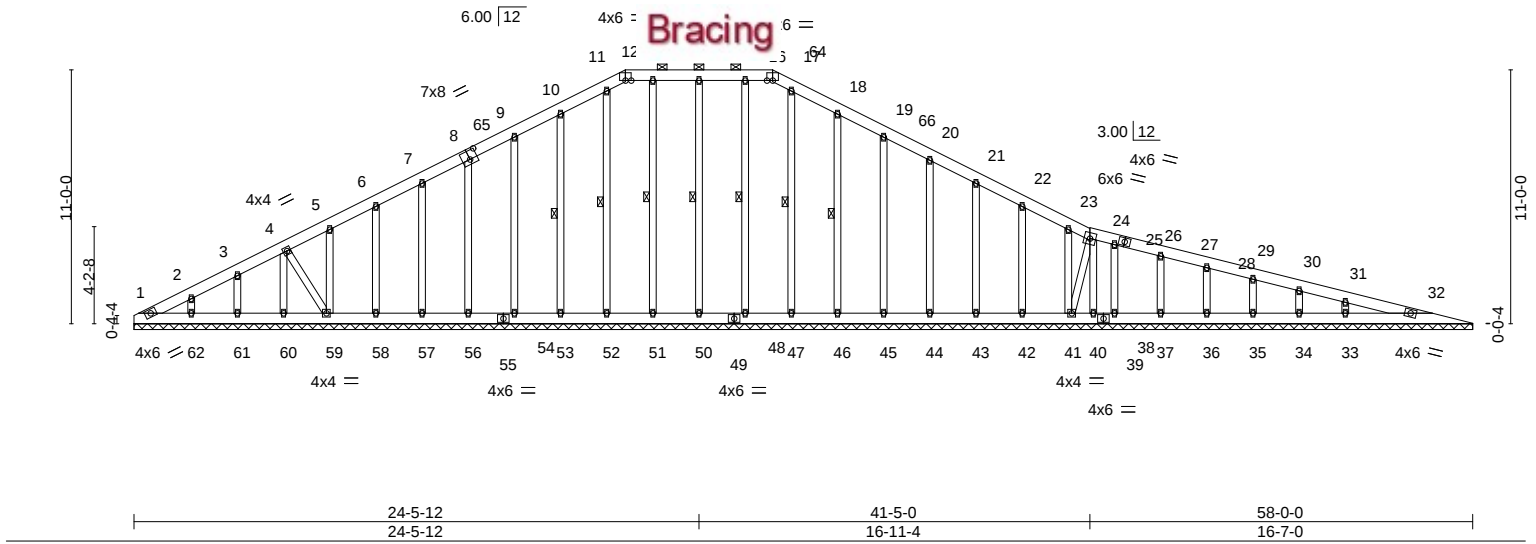


Plate Offsets (X,Y)-- [8:0-4-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a - n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a - n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00 32 n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S					Weight: 500 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 12-16.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 1 Row at midpt 13-51, 11-52, 10-53, 15-48, 17-47, 18-46, 14-50

REACTIONS.

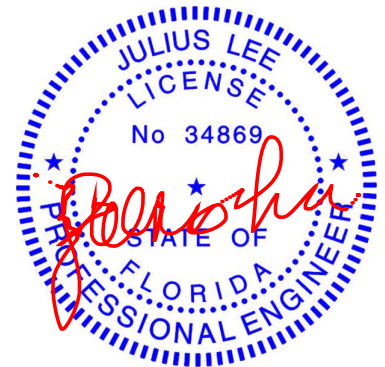
All bearings 58-0-0.
(lb) - Max Horz 1=-193(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 56, 53, 54, 58, 57, 59, 61, 62, 46, 45, 44, 43, 42, 41, 40, 37, 35, 36, 34, 33, 50
Max Grav All reactions 250 lb or less at joint(s) 1, 51, 52, 56, 53, 54, 58, 57, 59, 60, 61, 62, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 35, 36, 34, 50, 32 except 33=304(LC 22)

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

TOP CHORD 10-11=-97/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-3-2 to 6-0-11, Exterior(2N) 6-0-11 to 21-3-7, Corner(3R) 21-3-7 to 27-1-1, Exterior(2N) 27-1-1 to 27-8-0, Corner(3R) 27-8-0 to 33-5-10, Exterior(2N) 33-5-10 to 56-2-11 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 56, 53, 54, 58, 57, 59, 61, 62, 46, 45, 44, 43, 42, 41, 40, 37, 35, 36, 34, 33, 50.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 27,2022

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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, DSB-89 and BCSI Building Component

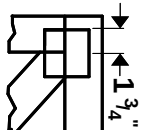
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



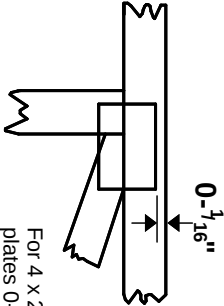
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

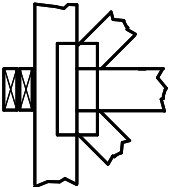
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



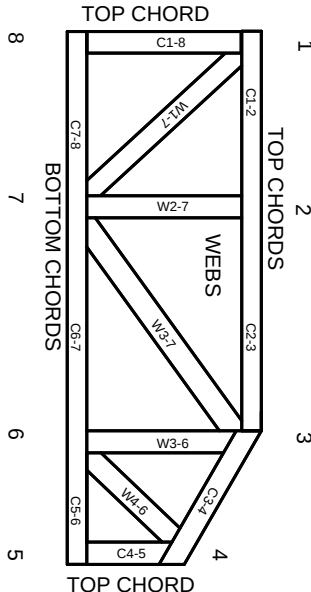
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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. 5/19/2020



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.