



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

RE: 0825-019 - Allred

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

**Site Information:**

Customer Info: BB Homes Project Name: . Model: .  
Lot/Block: . Subdivision: .  
Address: ., .  
City: Ft. White State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8  
Wind Code: ASCE 7-22 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

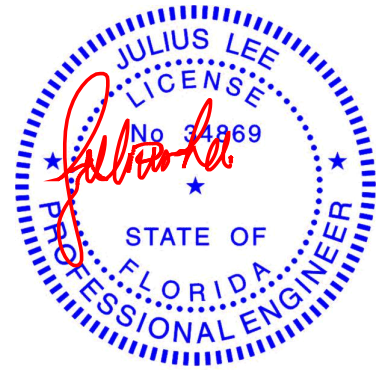
This package includes 34 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T40878650	A01	4/20/26	23	T40878672	E03	4/20/26
2	T40878651	A02	4/20/26	24	T40878673	F01	4/20/26
3	T40878652	A03	4/20/26	25	T40878674	F02	4/20/26
4	T40878653	A04	4/20/26	26	T40878675	G01	4/20/26
5	T40878654	A05	4/20/26	27	T40878676	J01	4/20/26
6	T40878655	A06	4/20/26	28	T40878677	J02	4/20/26
7	T40878656	B01	4/20/26	29	T40878678	J03	4/20/26
8	T40878657	B02	4/20/26	30	T40878679	M01	4/20/26
9	T40878658	B03	4/20/26	31	T40878680	M02	4/20/26
10	T40878659	C01	4/20/26	32	T40878681	PB01	4/20/26
11	T40878660	C02	4/20/26	33	T40878682	PB02	4/20/26
12	T40878661	C03	4/20/26	34	T40878683	PB03	4/20/26
13	T40878662	C04	4/20/26				
14	T40878663	C05	4/20/26				
15	T40878664	C06	4/20/26				
16	T40878665	C07	4/20/26				
17	T40878666	C08	4/20/26				
18	T40878667	C09	4/20/26				
19	T40878668	C10	4/20/26				
20	T40878669	CJ01	4/20/26				
21	T40878670	E01	4/20/26				
22	T40878671	E02	4/20/26				

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, 2027.

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



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

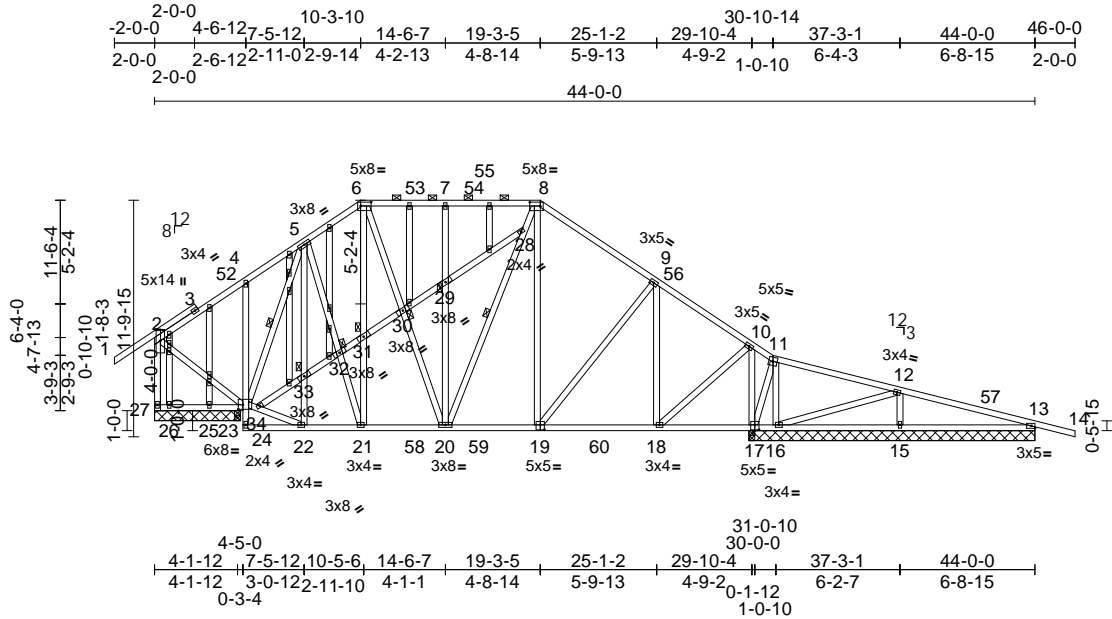
April 20, 2026

Job 0825-019	Truss A01	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Allred Job Reference (optional)	T40878650
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Apr 20 13:44:52  
ID:GqsQd52ucB11KT8JDRGKfZos\_E-ywB\_Vt6xDDcOfOnyhMuEP75T90mEchZAwBa9NYzOzYR

Page: 1



Scale = 1:115.1

Plate Offsets (X, Y): [6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [17:0-2-8,0-3-0], [19:0-2-8,0-3-0], [24:0-2-12,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.04	18-19	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	15-51	>950	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	49	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 425 lb FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 8-20, 5-24  
JOINTS 1 Brace at Jt(s): 29, 30, 31, 32, 33

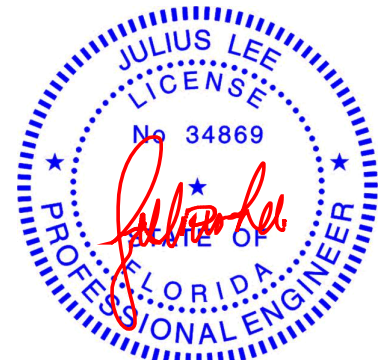
**REACTIONS** All bearings 4-3-8, except 16=14-3-8, 15=14-3-8, 17=14-3-8, 13=14-3-8  
(lb) - Max Horiz 27=254 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 17, 24, 26, 27  
Max Grav All reactions 250 (lb) or less at joint (s) 16, 25, 26 except 13=401 (LC 24), 15=510 (LC 18), 17=1406 (LC 18), 24=1330 (LC 17), 27=306 (LC 23)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=-598/202, 6-53=-628/205, 7-53=-628/205, 7-54=-630/205, 54-55=-630/205, 8-55=-630/205, 8-9=-902/202, 9-56=-705/129, 10-56=-837/127, 2-27=-304/148  
BOT CHORD 21-22=0/421, 21-58=0/555, 20-58=0/555, 20-59=0/685, 19-59=0/685, 19-60=0/635, 18-60=0/635

**WEBS** 21-31=-302/30, 6-31=-298/30, 9-18=-382/91, 12-15=-334/86, 20-29=-295/105, 7-29=-297/105, 6-30=-62/476, 20-30=-63/479, 10-17=-1175/71, 10-18=-32/890, 5-32=0/482, 21-32=0/482, 24-34=0/365, 22-34=0/408, 5-24=-911/82

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 10-3-10, Zone2 10-3-10 to 16-6-5, Zone1 16-6-5 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 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
  - 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 studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 27, 24, 17, 26, 13, 13.

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

April 20,2026

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

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

**MiTek®**

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314.434.1200 / MiTek-US.com



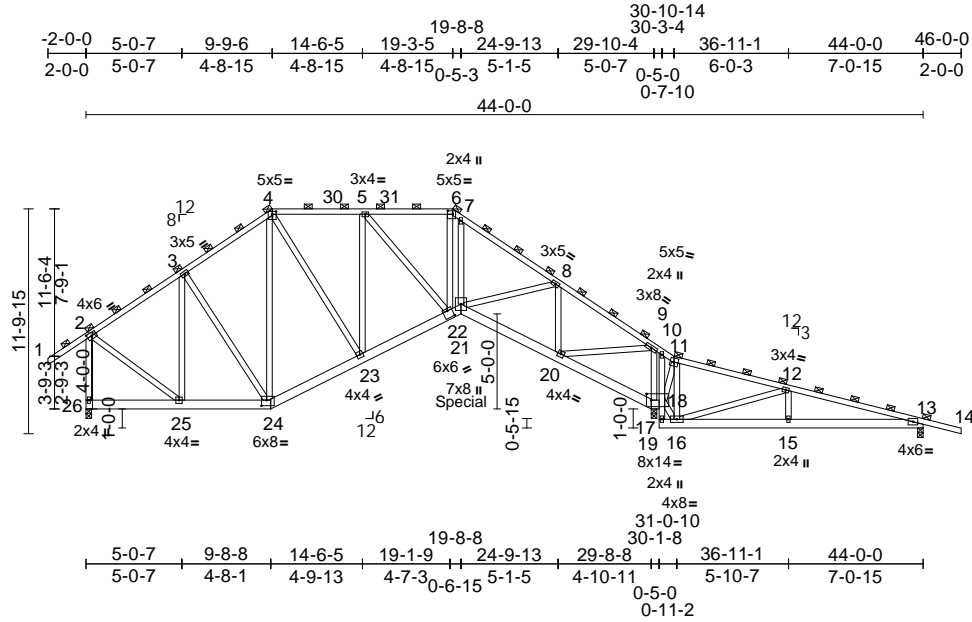
Job 0825-019	Truss A03	Truss Type Piggyback Base Girder	Qty 2	Ply 2	Allred Job Reference (optional)	T40878652
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:28

Page: 1

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Scale = 1:121.1

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-2-8,0-1-13], [6:0-3-4,0-2-4], [19:0-3-0,0-4-0], [22:0-3-0,0-4-8], [24:0-3-4,0-3-8]

Loading	(psf)	Spacing	4-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.09	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.18	20-21	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.14	19	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 672 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\* 10-17:2x4 SP No.2  
 WEBS 2x4 SP No.2

**BRACING**

TOP CHORD 2-0-0 oc purlins (5-11-5 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-8-0).  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS**

(size) 13=0-3-8, 19=0-3-8, 26=0-3-8  
 Max Horiz 26=466 (LC 6)  
 Max Uplift 13=404 (LC 25), 19=360 (LC 8),  
 26=134 (LC 8)  
 Max Grav 13=896 (LC 20), 19=4626 (LC 1),  
 26=2565 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/143, 2-3=-1790/200, 3-4=-1923/289,  
 4-5=-2139/229, 5-6=-2886/133,  
 6-7=-3097/205, 7-8=-3652/79, 8-9=-1871/33,  
 9-10=-127/2567, 10-11=-51/2885,  
 11-12=0/1702, 12-13=-659/735, 13-14=0/58,  
 2-26=-2474/190  
 BOT CHORD 25-26=-398/390, 24-25=0/1484,  
 23-24=0/1719, 22-23=0/2522, 21-22=0/2375,  
 20-21=0/1606, 19-20=-2789/284,  
 18-19=-2278/231, 17-18=-249/33,  
 10-18=-730/0, 16-17=-494/52,  
 15-16=-625/564, 13-15=-625/564  
 WEBS 3-25=-823/46, 3-24=-58/325, 4-24=-664/0,  
 4-23=0/1332, 5-23=-1485/7, 5-22=0/1179,  
 11-18=-2128/418, 2-25=0/1688,  
 6-22=-116/992, 7-21=-42/606,  
 9-19=-2825/219, 11-16=-344/2982,  
 16-18=-2352/156, 12-16=-2170/459,  
 12-15=-75/608, 9-20=0/3921,  
 8-20=-2069/120, 8-21=0/1484

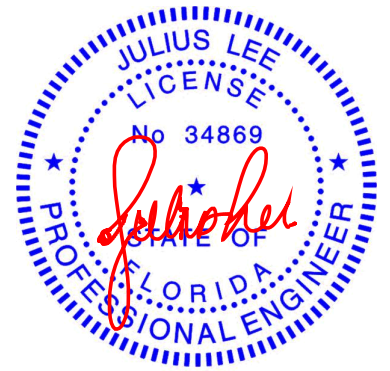
**NOTES**

- 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, 2x4 - 1 row at 0-9-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 26, 360 lb uplift at joint 19 and 404 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 638 lb down and 150 lb up at 19-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (lb/ft)  
 Vert: 1-2=-120, 2-4=-120, 4-6=-120, 6-11=-120,  
 11-14=-120, 24-26=-40, 21-24=-40, 19-21=-40,  
 18-19=-40, 17-27=-40  
 Concentrated Loads (lb)  
 Vert: 21=-552 (F)



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

April 20,2026

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

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

**MiTek®**

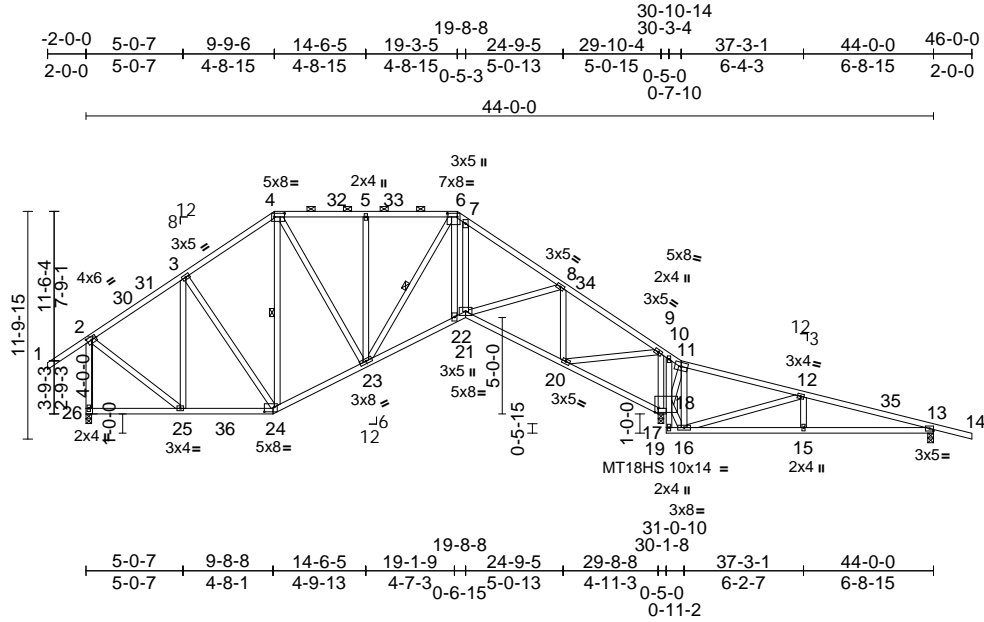
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss A04	Truss Type Piggyback Base	Qty 6	Ply 1	Allred Job Reference (optional)	T40878653
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:29  
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Page: 1



Scale = 1:119.6

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [19:0-2-0,0-2-8], [24:0-6-4,0-3-0]

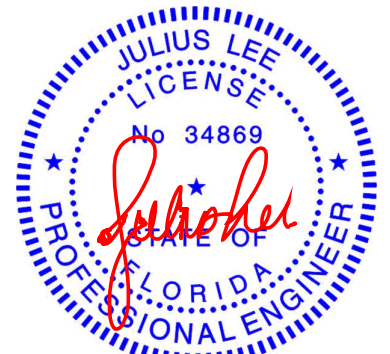
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.11	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.21	20-21	>999	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.16	19	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 303 lb	FT = 20%

- LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2
- BRACING**  
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-2 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-24, 6-23
- REACTIONS**  
(size) 13=0-3-8, 19=0-3-8, 26=0-3-8  
Max Horiz 26=-231 (LC 10)  
Max Uplift 13=-173 (LC 12), 19=-113 (LC 12), 26=-47 (LC 12)  
Max Grav 13=503 (LC 29), 19=2182 (LC 2), 26=1341 (LC 20)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/71, 2-3=-947/168, 3-4=-979/232, 4-5=-1067/212, 5-6=-1067/212, 6-7=-1198/187, 7-8=-1680/110, 8-9=-970/68, 9-10=-50/939, 10-11=-8/1207, 11-12=0/612, 12-13=-586/330, 13-14=0/29, 2-26=-1268/273  
BOT CHORD 25-26=-200/197, 24-25=-5/818, 23-24=0/951, 22-23=0/1569, 21-22=0/1346, 20-21=0/866, 19-20=-1157/189, 18-19=-1078/177, 17-18=-193/44, 10-18=-553/0, 16-17=-180/30, 15-16=-272/536, 13-15=-272/536  
WEBS 3-24=-52/138, 4-24=-293/0, 11-18=-1120/280, 2-25=-1/885, 3-25=-375/66, 9-19=-1081/139, 11-16=-216/1490, 16-18=-960/57, 12-16=-1115/306, 12-15=-64/272, 6-22=0/512, 7-21=0/570, 9-20=-11/1729, 8-20=-872/74, 8-21=0/614, 6-23=-495/0, 4-23=0/583, 5-23=-281/110

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; 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; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 9-9-6, Zone2 9-9-6 to 16-0-1, Zone1 16-0-1 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 26, 113 lb uplift at joint 19 and 173 lb uplift at joint 13.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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

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

**MiTek®**

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

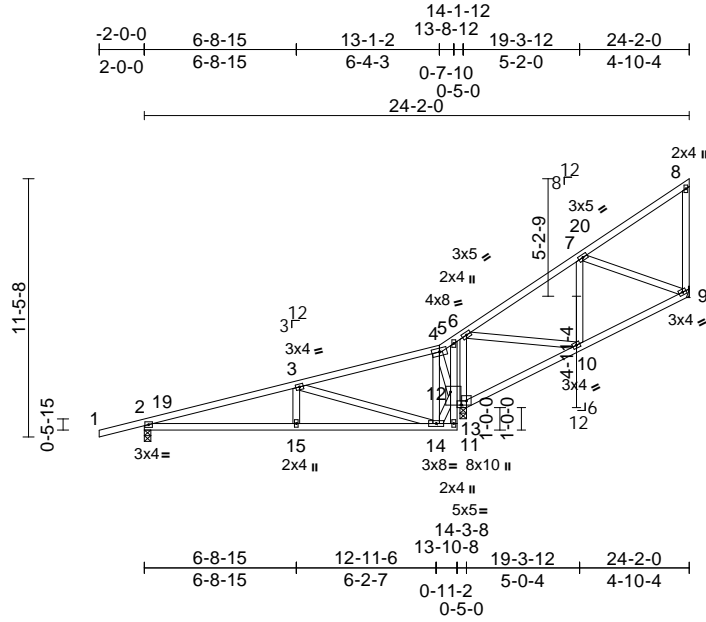


Job 0825-019	Truss A06	Truss Type Jack-Closed	Qty 3	Ply 1	Allred Job Reference (optional)	T40878655
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30  
ID:py\_5MlafGRWOSjqw1xLKblyo\_AN-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:102.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.05	15-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.10	15-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 139 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS** (size) 2=0-3-8, 9= Mechanical, 11=0-3-8  
Max Horiz 2=272 (LC 9)  
Max Uplift 2=-130 (LC 8), 9=-41 (LC 9), 11=-166 (LC 12)  
Max Grav 2=611 (LC 1), 9=318 (LC 17), 11=1173 (LC 23)

**FORCES** (lb) - Maximum Compression/Maximum Tension

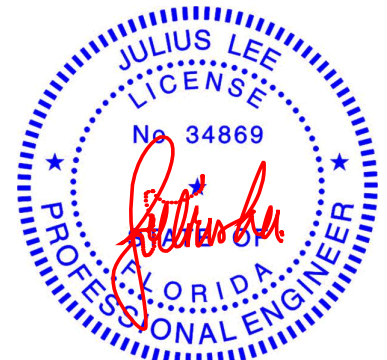
TOP CHORD 1-2=0/29, 2-3=-940/204, 3-4=-313/238, 4-5=-317/355, 5-6=-382/467, 6-7=-286/17, 7-8=-142/90, 8-9=-119/113  
BOT CHORD 2-15=-395/869, 14-15=-395/869, 13-14=-48/31, 12-13=-153/46, 5-12=-124/181, 11-12=-475/97, 10-11=-442/121, 9-10=-133/233  
WEBS 4-12=-751/234, 6-11=-613/194, 7-9=-178/51, 7-10=-209/133, 6-10=-92/507, 3-15=-71/262, 3-14=-1002/339, 4-14=-199/595, 12-14=-159/41

**NOTES**

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 24-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 9, 130 lb uplift at joint 2 and 166 lb uplift at joint 11.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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

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

**MiTek®**

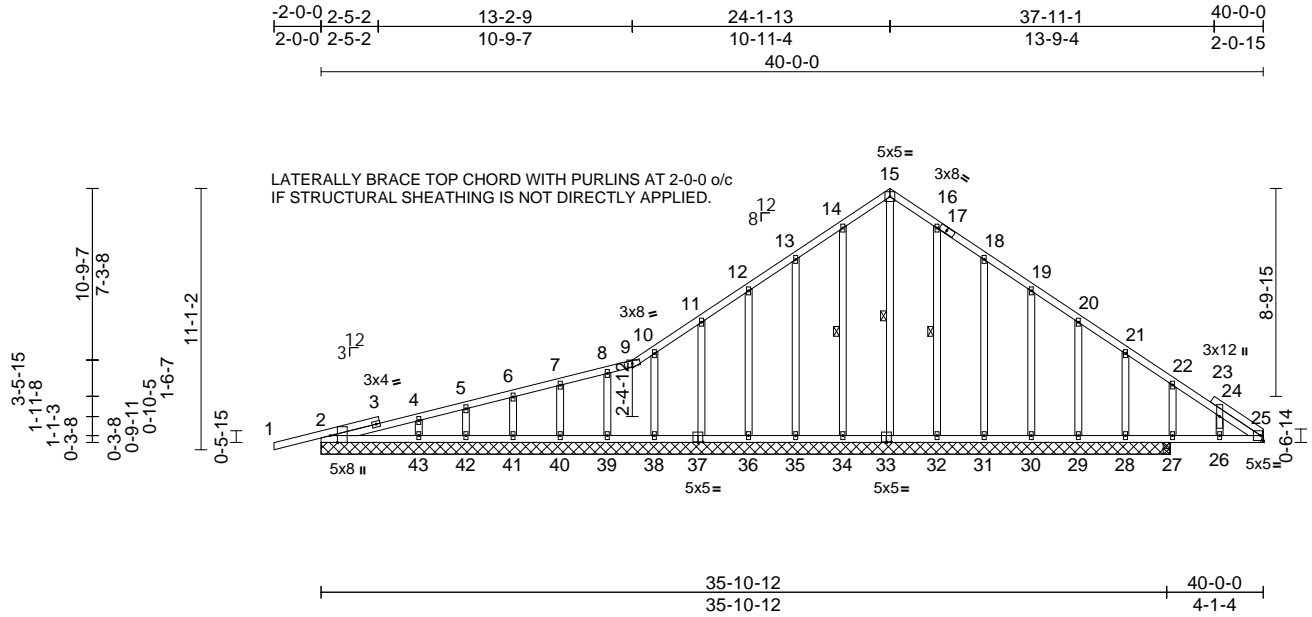
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss B01	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Allred Job Reference (optional)	T40878656
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30  
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Page: 1



Scale = 1:97.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [17:0-3-13,0-1-8], [33:0-2-8,0-0-4], [37:0-2-8,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	26	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	25	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 263 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 15-33, 14-34, 16-32

**REACTIONS** (size)  
2=36-0-8, 25= Mechanical,  
27=36-0-8, 28=36-0-8, 29=36-0-8,  
30=36-0-8, 31=36-0-8, 32=36-0-8,  
33=36-0-8, 34=36-0-8, 35=36-0-8,  
36=36-0-8, 37=36-0-8, 38=36-0-8,  
39=36-0-8, 40=36-0-8, 41=36-0-8,  
42=36-0-8, 43=36-0-8

Max Horiz 2=200 (LC 11)  
Max Uplift 2=45 (LC 12), 27=37 (LC 12),  
28=14 (LC 12), 29=23 (LC 12),  
30=20 (LC 12), 31=26 (LC 12),  
32=9 (LC 12), 34=12 (LC 12),  
35=25 (LC 12), 36=19 (LC 12),  
37=23 (LC 12), 38=15 (LC 12),  
40=4 (LC 12), 42=13 (LC 12)

Max Grav 2=298 (LC 1), 25=141 (LC 17),  
27=302 (LC 18), 28=115 (LC 18),  
29=177 (LC 18), 30=162 (LC 18),  
31=166 (LC 18), 32=169 (LC 18),  
33=170 (LC 12), 34=168 (LC 17),  
35=164 (LC 17), 36=167 (LC 17),  
37=171 (LC 17), 38=161 (LC 1),  
39=165 (LC 1), 40=156 (LC 23),  
41=171 (LC 1), 42=118 (LC 23),  
43=270 (LC 1)

**TOP CHORD**  
1-2=0/29, 2-4=-186/117, 4-5=-146/108,  
5-6=-121/110, 6-7=-120/108, 7-8=-116/106,  
8-9=-119/105, 9-10=-113/115,  
10-11=-128/113, 11-12=-113/122,  
12-13=-104/202, 13-14=-106/287,  
14-15=-128/355, 15-16=-127/350,  
16-18=-105/282, 18-19=-77/196,  
19-20=-64/118, 20-21=-72/41, 21-22=-92/50,  
22-24=-153/99, 24-25=-182/73

**BOT CHORD**  
2-43=93/184, 42-43=-72/184,  
41-42=-72/184, 40-41=-72/184,  
39-40=-72/184, 38-39=-72/184,  
36-38=-72/184, 35-36=-72/180,  
34-35=-72/180, 32-34=-72/185,  
31-32=-72/185, 30-31=-72/185,  
29-30=-72/185, 28-29=-72/185,  
27-28=-72/185, 26-27=-72/185,  
25-26=-72/185

**WEBS**  
15-33=-288/72, 14-34=-130/99,  
13-35=-124/130, 12-36=-125/119,  
11-37=-130/124, 10-38=-123/107,  
8-39=-124/76, 7-40=-118/83, 6-41=-126/84,  
5-42=-97/80, 4-43=-187/98, 16-32=-127/98,  
18-31=-126/130, 19-30=-124/118,  
20-29=-131/124, 21-28=-99/105,  
22-27=-206/165, 24-26=-19/47

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=40ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

**FORCES** (lb) - Maximum Compression/Maximum Tension

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.



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

April 20,2026

Continued on page 2

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

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

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

Job	Truss	Truss Type	Qty	Ply	Allred
0825-019	B01	Roof Special Supported Gable	1	1	T40878656 Job Reference (optional)

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30  
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Page: 2

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 23 lb uplift at joint 37, 12 lb uplift at joint 34, 25 lb uplift at joint 35, 19 lb uplift at joint 36, 15 lb uplift at joint 38, 4 lb uplift at joint 40, 13 lb uplift at joint 42, 9 lb uplift at joint 32, 26 lb uplift at joint 31, 20 lb uplift at joint 30, 23 lb uplift at joint 29, 14 lb uplift at joint 28, 37 lb uplift at joint 27 and 45 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

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

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**MiTek®**

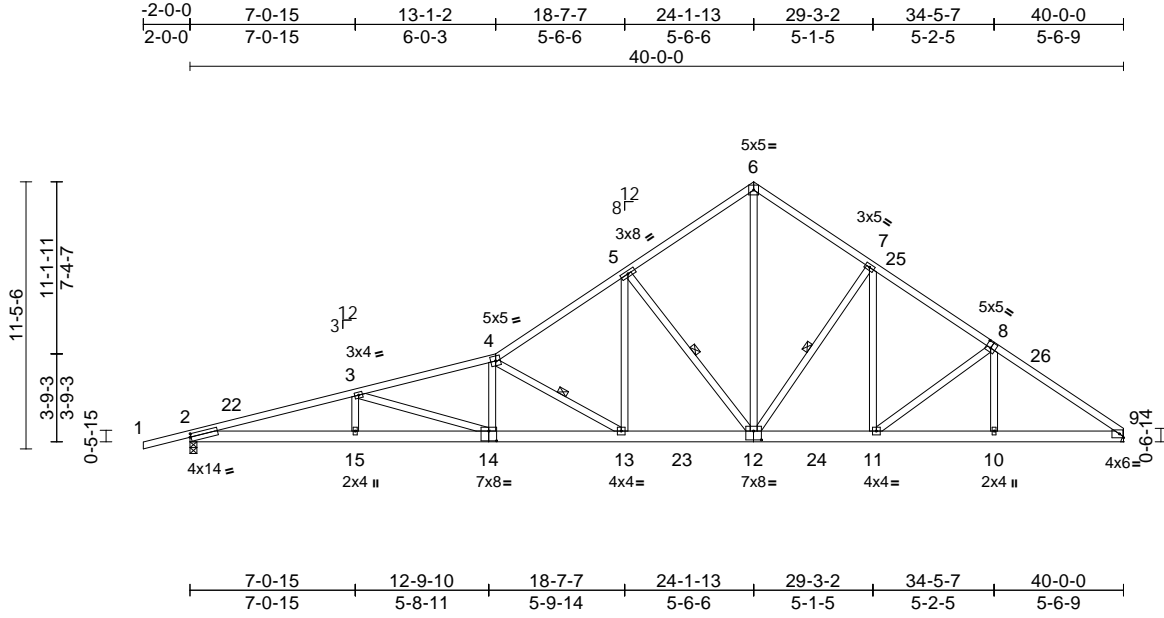
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss B02	Truss Type Roof Special	Qty 5	Ply 1	Allred Job Reference (optional)	T40878657
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31  
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Page: 1



Scale = 1:98.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.40	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.74	14-15	>648	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 265 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-12, 4-13, 7-12

**REACTIONS** (size) 2=0-3-8, 9= Mechanical  
Max Horiz 2=207 (LC 11)  
Max Uplift 2=-48 (LC 12)  
Max Grav 2=1858 (LC 17), 9=1789 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-5557/169, 3-4=-4843/197,  
4-5=-3107/200, 5-6=-2012/233,  
6-7=-2012/249, 7-9=-2747/221  
BOT CHORD 2-15=-111/5486, 13-15=-111/5486,  
11-13=-4/2647, 10-11=-66/2203,  
9-10=-65/2205  
WEBS 3-15=0/174, 3-14=-740/22, 4-14=0/473,  
5-12=-1577/156, 6-12=-140/1872,  
5-13=0/1507, 4-13=-2471/116,  
7-12=-652/132, 7-11=-8/456, 8-11=-404/130,  
8-10=0/180

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;  
B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed;  
MWFERS (directional) and C-C Zone3 -2-0-0 to 2-0-0,  
Zone1 2-0-0 to 24-1-13, Zone2 24-1-13 to 29-9-11,  
Zone1 29-9-11 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFERS for reactions shown;  
Lumber DOL=1.60 plate grip DOL=1.60



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

April 20,2026

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

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

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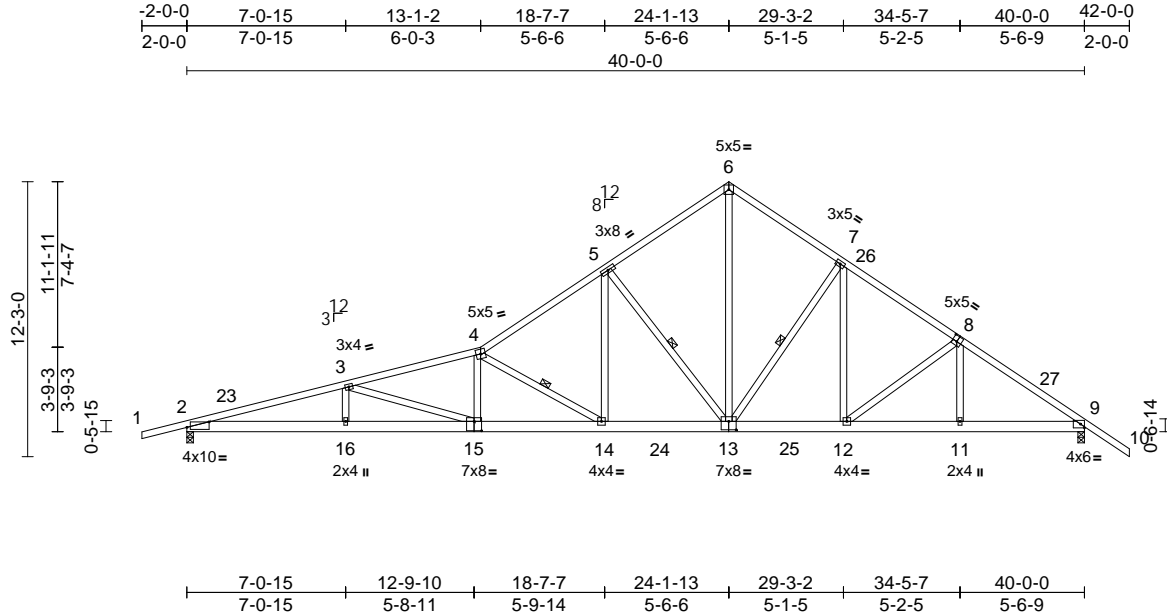
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss B03	Truss Type Roof Special	Qty 2	Ply 1	Allred Job Reference (optional)	T40878658
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31  
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Page: 1



Scale = 1:102.7

Plate Offsets (X, Y): [2:0-11-14,Edge], [8:0-2-8,0-3-0], [13:0-4-0,0-4-8], [15:0-4-0,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.40	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.74	15-16	>649	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 269 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-13, 4-14, 7-13

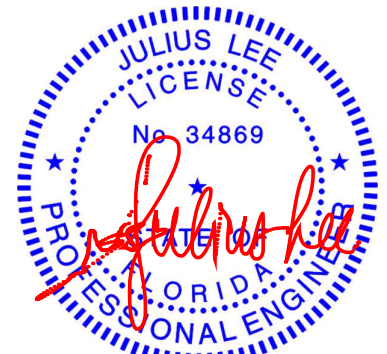
**REACTIONS** (size) 2=0-3-8, 9=0-3-8  
Max Horiz 2=216 (LC 11)  
Max Uplift 2=-46 (LC 12), 9=-47 (LC 12)  
Max Grav 2=1856 (LC 17), 9=1902 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-5550/163, 3-4=-4835/194,  
4-5=-3101/197, 5-6=-2004/231,  
6-7=-2007/224, 7-9=-2710/175, 9-10=0/67  
BOT CHORD 2-16=-50/5492, 14-16=-50/5492,  
12-14=0/2655, 11-12=0/2181, 9-11=0/2183  
WEBS 3-16=0/174, 3-15=-741/26, 4-15=0/473,  
5-13=-1576/151, 6-13=-129/1866,  
5-14=0/1506, 4-14=-2468/115,  
7-13=-646/130, 7-12=0/446, 8-12=-376/49,  
8-11=0/171

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2 and 47 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 -2-0-0 to 2-0-0,  
Zone1 2-0-0 to 24-1-13, Zone2 24-1-13 to 29-9-11,  
Zone1 29-9-11 to 42-0-0 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



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

April 20,2026

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

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

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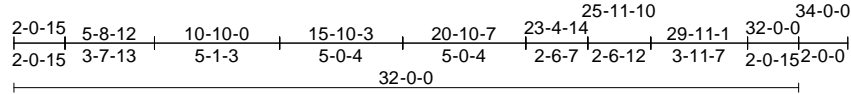
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss C01	Truss Type Common Structural Gable	Qty 1	Ply 1	Allred Job Reference (optional)	T40878659
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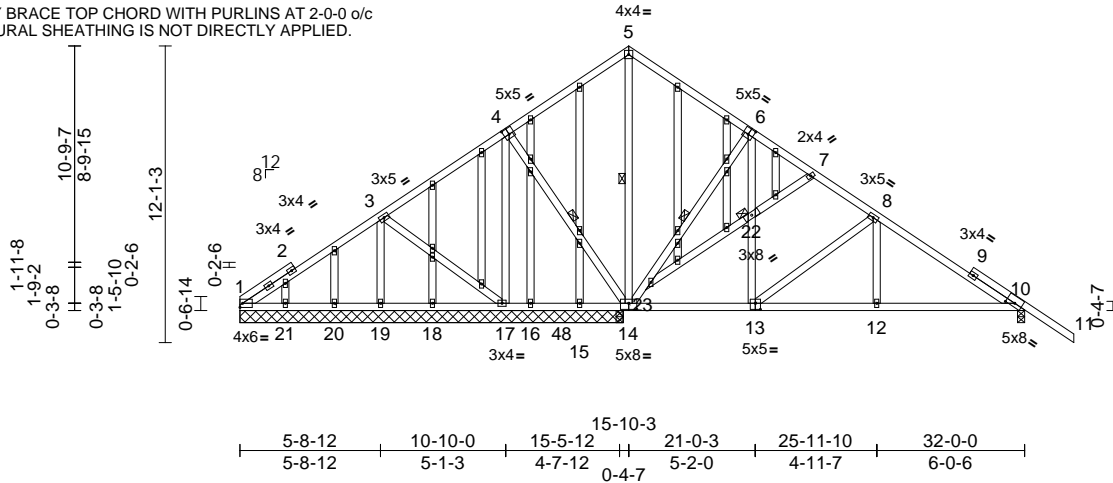
Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31  
ID:DbWjiA8u\_P1DgUTmXKazqKynwb7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCdoi7J4zJC?f

Page: 1



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



Scale = 1:94

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-5,0-1-12], [13:0-2-8,0-3-0], [14:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.04	12-47	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.08	12-47	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 280 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-14, 4-14, 6-14  
JOINTS 1 Brace at Jt(s): 22

**REACTIONS** (size)  
1=15-7-8, 10=0-3-8, 14=15-7-8,  
15=15-7-8, 16=15-7-8, 17=15-7-8,  
18=15-7-8, 19=15-7-8, 20=15-7-8,  
21=15-7-8  
Max Horiz 1=209 (LC 10)  
Max Uplift 1=43 (LC 10), 10=53 (LC 12),  
14=7 (LC 12), 17=44 (LC 12),  
19=29 (LC 9), 21=31 (LC 12)  
Max Grav 1=70 (LC 18), 10=657 (LC 18),  
14=1413 (LC 18), 15=39 (LC 16),  
16=91 (LC 16), 17=234 (LC 23),  
18=110 (LC 16), 19=304 (LC 23),  
20=68 (LC 16), 21=228 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-3=90/219, 3-5=33/376, 5-7=99/377,  
7-8=206/63, 8-10=597/33, 10-11=0/71  
BOT CHORD 1-21=-129/127, 20-21=-129/104,  
19-20=-129/104, 18-19=-129/104,  
17-18=-129/104, 16-17=-230/181,  
15-16=-230/181, 12-15=-230/457,  
10-12=0/457  
WEBS 5-14=-590/0, 4-14=-196/105, 3-19=-260/57,  
3-17=-126/96, 4-17=-160/75,  
14-23=-653/132, 6-23=-608/101,  
13-22=0/458, 6-22=0/461, 8-13=-485/75,  
8-12=0/227, 7-22=-55/37, 22-23=-51/38

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 7 lb uplift at joint 14, 29 lb uplift at joint 19, 44 lb uplift at joint 17, 31 lb uplift at joint 21, 53 lb uplift at joint 10 and 43 lb uplift at joint 1.
- 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:

April 20,2026

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

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

**MiTek®**

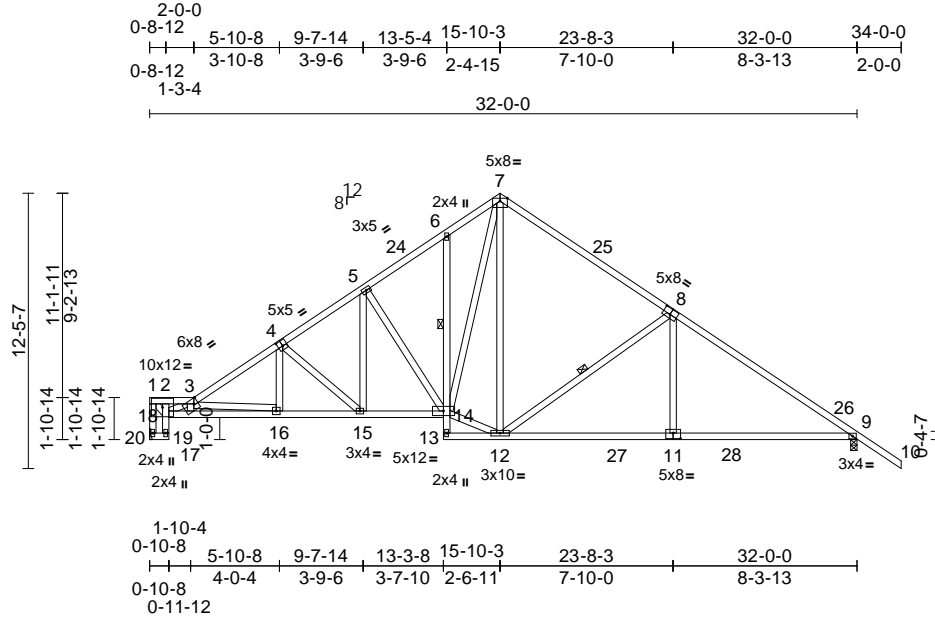
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss C02	Truss Type Roof Special	Qty 1	Ply 1	Allred Job Reference (optional)	T40878660
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:32  
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Page: 1



Scale = 1:104.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.18	11-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.34	11-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 218 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\* 18-14:2x4 SP No.1  
 WEBS 2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 12-13.

1 Row at midpt 6-14  
 WEBS 1 Row at midpt 8-12

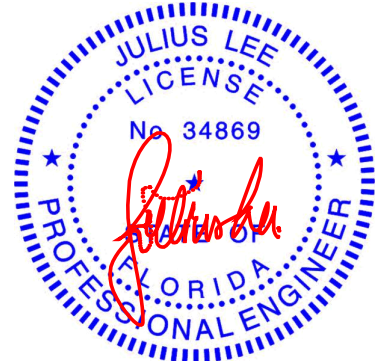
**REACTIONS** (size) 9=0-3-8, 20= Mechanical  
 Max Horiz 20=236 (LC 10)  
 Max Uplift 9=50 (LC 12)  
 Max Grav 9=1566 (LC 18), 20=1398 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-20=-1428/0, 1-2=-1243/1, 2-3=-1735/0, 3-5=-2630/88, 5-6=-1659/127, 6-7=-1629/173, 7-9=-2115/147, 9-10=0/67, 19-20=-158/201, 18-19=-177/128, 2-18=-18/11, 17-18=0/3931, 16-17=0/3981, 15-16=0/2310, 14-15=0/1800, 13-14=-20/0, 6-14=-166/74, 12-13=-11/37, 9-12=0/1686  
 BOT CHORD 1-18=0/1778, 3-18=-2271/45, 3-17=-236/53, 7-14=-38/1230, 7-12=-48/322, 12-14=0/1197, 8-12=-845/110, 8-11=0/451, 5-14=-658/61, 4-16=0/487, 3-16=-1681/0, 4-15=-674/41, 5-15=0/563  
 WEBS

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 2-0-0, Zone1 2-0-0 to 15-10-3, Zone2 15-10-3 to 20-1-2, Zone1 20-1-2 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 9.

**LOAD CASE(S)** Standard



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

April 20,2026

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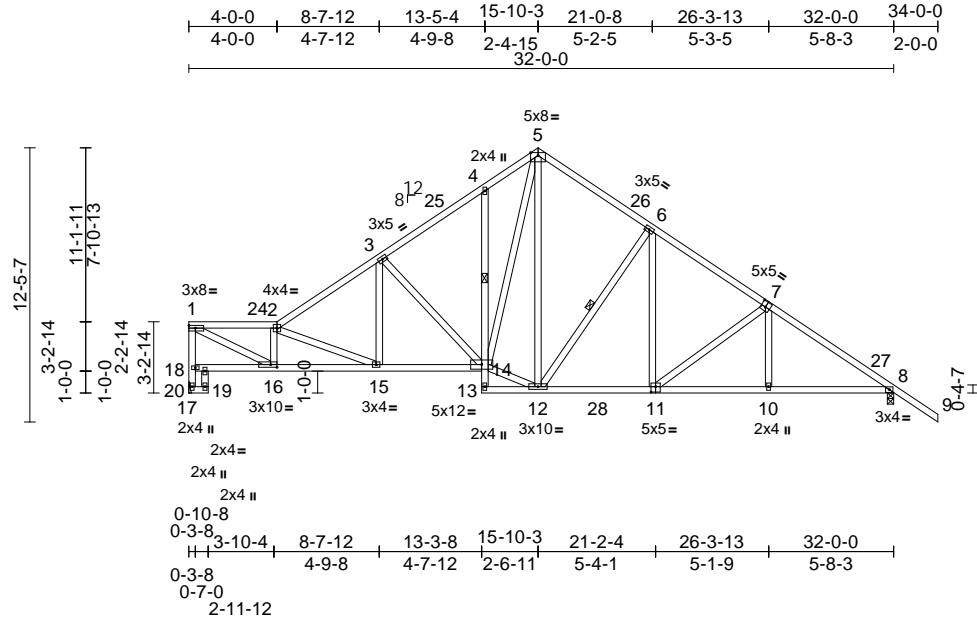
**MiTek®**  
 16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss C03	Truss Type Roof Special	Qty 1	Ply 1	Allred Job Reference (optional)	T40878661
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:32  
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Page: 1



Scale = 1:104.6

Plate Offsets (X, Y): [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [16:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.13	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.24	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 230 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. Except:  
1 Row at midpt 4-14  
WEBS 1 Row at midpt 6-12

**REACTIONS**

(size) 8=0-3-8, 20= Mechanical  
Max Horiz 20=251 (LC 10)  
Max Uplift 8=-49 (LC 12)  
Max Grav 8=1534 (LC 18), 20=1387 (LC 17)

**FORCES**

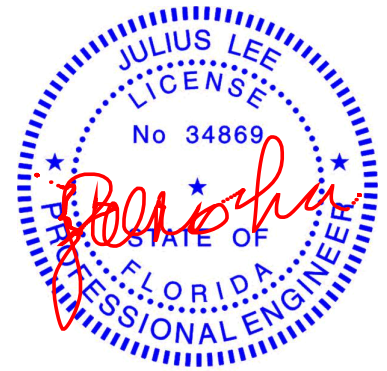
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 18-20=-1441/0, 1-18=-1319/36,  
1-2=-2443/37, 2-3=-2189/68, 3-4=-1670/113,  
4-5=-1628/183, 5-6=-1338/162,  
6-8=-2166/109, 8-9=0/67  
BOT CHORD 19-20=-105/90, 17-19=-143/135,  
17-18=-102/245, 16-17=-207/314,  
15-16=0/2663, 14-15=0/1925, 13-14=0/15,  
4-14=-195/99, 12-13=-13/43, 10-12=0/1724,  
8-10=0/1727  
WEBS 1-16=-21/2591, 2-16=-1073/97,  
3-14=-713/66, 5-14=-42/1260, 5-12=-92/345,  
12-14=0/1179, 6-12=-679/96, 6-11=0/494,  
7-11=-458/56, 7-10=0/217, 3-15=0/503,  
2-15=-800/36

**NOTES**

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,  
Zone1 3-1-12 to 15-10-3, Zone2 15-10-3 to 20-1-2,  
Zone1 20-1-2 to 34-0-0 zone; cantilever left and right  
exposed ; end vertical left and right exposed;C-C for  
members and forces & MWFRS for reactions shown;  
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 49 lb uplift at joint  
8.
- 9) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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**MiTek®**

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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

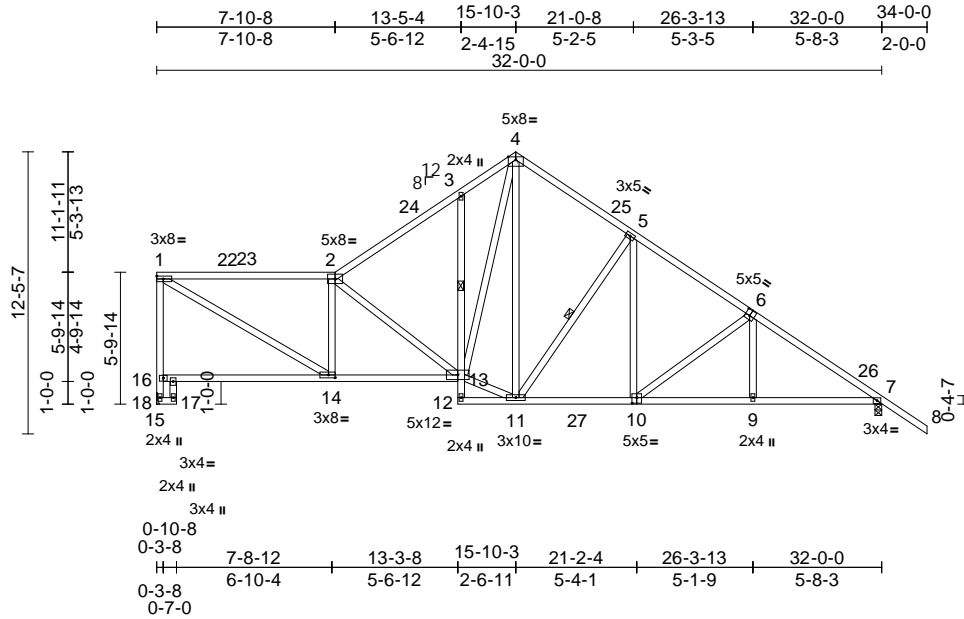


Job 0825-019	Truss C05	Truss Type Roof Special	Qty 1	Ply 1	Allred Job Reference (optional)	T40878663
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:33  
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Page: 1



Scale = 1:101.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.12	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.23	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.13	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 230 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. Except:  
1 Row at midpt 3-13  
WEBS 1 Row at midpt 5-11

**REACTIONS** (size) 7=0-3-8, 18= Mechanical  
Max Horiz 18=281 (LC 10)  
Max Uplift 7=-48 (LC 12)  
Max Grav 7=1540 (LC 18), 18=1402 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 16-18=-1421/15, 1-16=-1245/77,  
1-2=-1869/85, 2-3=-1680/115,  
3-4=-1634/195, 4-5=-1334/167,  
5-7=-2175/114, 7-8=0/67  
BOT CHORD 17-18=-144/120, 15-17=-163/178,  
15-16=-42/230, 14-15=-167/279,  
13-14=0/2014, 12-13=0/15, 3-13=-228/119,  
11-12=-16/36, 9-11=0/1729, 7-9=0/1733  
WEBS 1-14=-49/2046, 2-14=-823/154,  
2-13=-750/68, 4-13=-56/1267, 4-11=-96/336,  
11-13=0/1170, 5-11=-679/96, 5-10=0/493,  
6-10=-458/56, 6-9=0/217

- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,  
Zone1 3-1-12 to 15-10-3, Zone2 15-10-3 to 20-1-2,  
Zone1 20-1-2 to 34-0-0 zone; cantilever left and right  
exposed ; end vertical left and right exposed;C-C for  
members and forces & MWFRS for reactions shown;  
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 48 lb uplift at joint  
7.
- This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

**LOAD CASE(S)** Standard

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



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

April 20,2026

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

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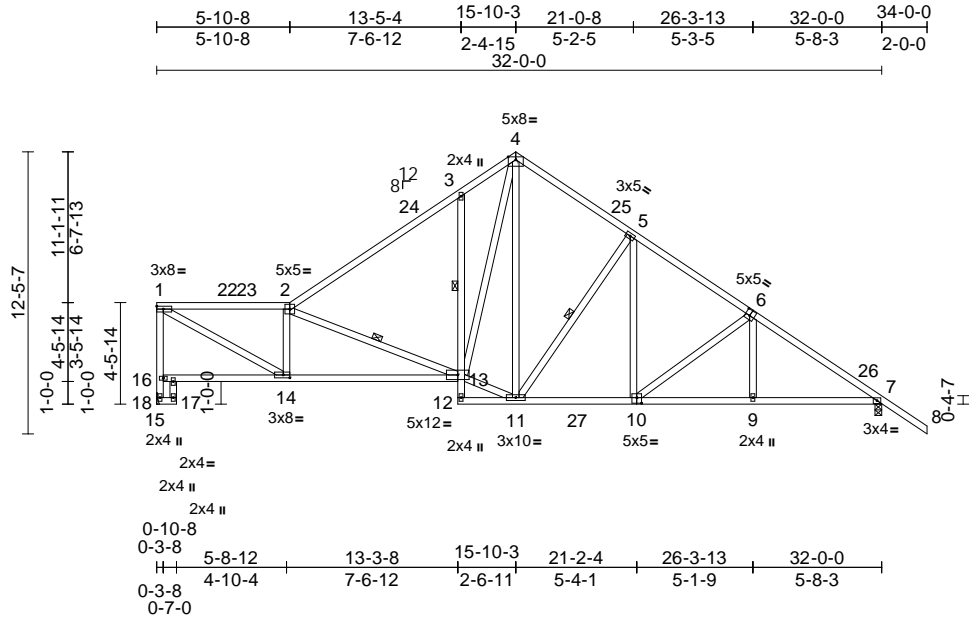
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss C06	Truss Type Roof Special	Qty 1	Ply 1	Allred Job Reference (optional)	T40878664
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:33  
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Page: 1



Scale = 1:101.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.18	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.35	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 225 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. Except:  
1 Row at midpt 3-13  
WEBS 1 Row at midpt 2-13, 5-11

**REACTIONS**

(size) 7=0-3-8, 18= Mechanical  
Max Horiz 18=266 (LC 10)  
Max Uplift 7=-49 (LC 12)  
Max Grav 7=1536 (LC 18), 18=1391 (LC 18)

**FORCES**

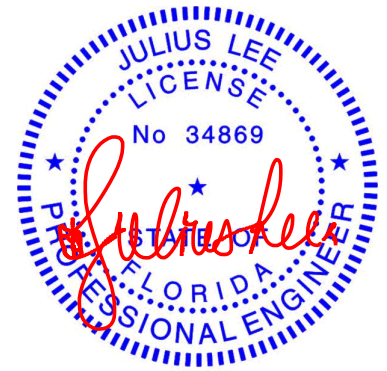
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 16-18=-1436/6, 1-16=-1299/52,  
1-2=-2142/65, 2-3=-1722/99, 3-4=-1691/204,  
4-5=-1337/164, 5-7=-2169/111, 7-8=0/67  
BOT CHORD 17-18=-103/99, 15-17=-141/144,  
15-16=-90/189, 14-15=-193/278,  
13-14=0/2314, 12-13=0/11, 3-13=-361/167,  
11-12=-97/5, 9-11=0/1725, 7-9=0/1728  
WEBS 1-14=-36/2340, 2-14=-924/139,  
2-13=-920/72, 4-13=-61/1364,  
4-11=-106/316, 11-13=0/1245, 5-11=-681/97,  
5-10=0/492, 6-10=-457/56, 6-9=0/217

**NOTES**

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,  
Zone1 3-1-12 to 15-10-3, Zone2 15-10-3 to 20-1-2,  
Zone1 20-1-2 to 34-0-0 zone; cantilever left and right  
exposed ; end vertical left and right exposed;C-C for  
members and forces & MWFRS for reactions shown;  
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 49 lb uplift at joint  
7.
- 9) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



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

April 20,2026

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Chesterfield, MO 63017  
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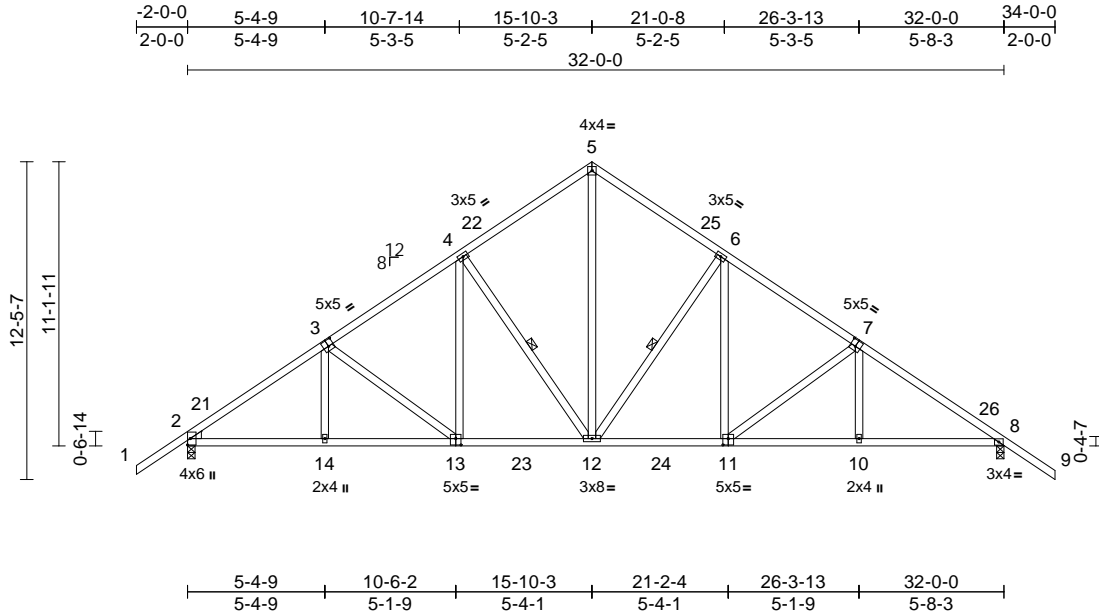


Job 0825-019	Truss C10	Truss Type Common	Qty 4	Ply 1	Allred Job Reference (optional)	T40878668
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35  
ID:P2H7qeDyhx0SKryh9OsWuywnF4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:90.3

Plate Offsets (X, Y): [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.11	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.20	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 205 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
  - BOT CHORD 2x4 SP No.2
  - WEBS 2x4 SP No.2
  - WEDGE Left: 2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied.
  - BOT CHORD Rigid ceiling directly applied.
  - WEBS 1 Row at midpt 6-12, 4-12
- REACTIONS** (size) 2=0-3-8, 8=0-3-8
- Max Horiz 2=223 (LC 11)
  - Max Uplift 2=-47 (LC 12), 8=-48 (LC 12)
  - Max Grav 2=1549 (LC 17), 8=1551 (LC 18)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/67, 2-4=-2087/106, 4-5=-1372/158, 5-6=-1370/158, 6-8=-2195/106, 8-9=0/67
  - BOT CHORD 2-14=0/1815, 12-14=0/1813, 10-12=0/1751, 8-10=0/1754
  - WEBS 5-12=-76/1172, 6-12=-674/95, 6-11=0/490, 7-11=-460/56, 7-10=0/218, 4-12=-647/95, 3-14=0/176, 3-13=-353/56, 4-13=0/441

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 48 lb uplift at joint 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-10-3, Zone2 15-10-3 to 20-1-2, Zone1 20-1-2 to 34-0-0 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.



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

April 20,2026

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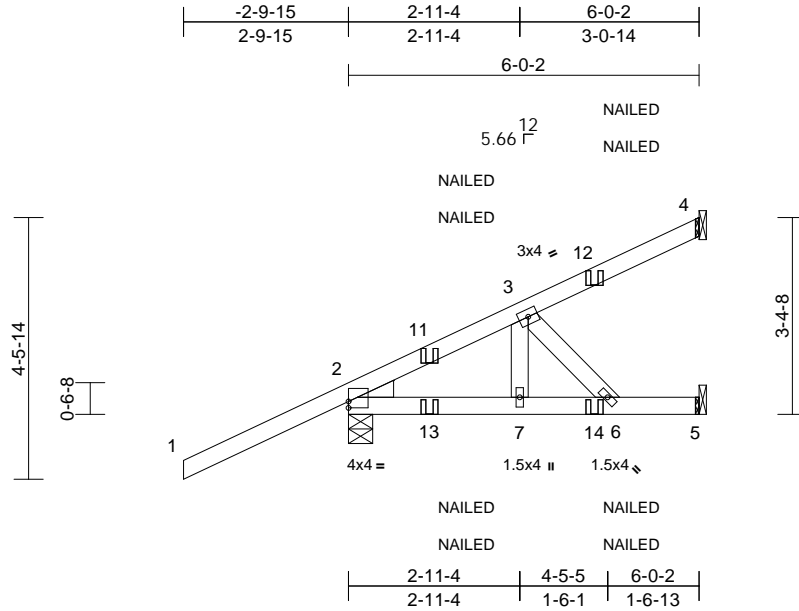
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Allred Job Reference (optional)	T40878669
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35  
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Page: 1



Scale = 1:39.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.04	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 30 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size)	2=0-4-15, 4= Mechanical, 5= Mechanical
Max Horiz	2=116 (LC 25)
Max Uplift	2=-162 (LC 8), 4=-23 (LC 8), 5=-13 (LC 5)
Max Grav	2=377 (LC 13), 4=99 (LC 19), 5=118 (LC 25)

**FORCES**

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/72, 2-3=-296/437, 3-4=-55/35
BOT CHORD	2-7=-310/198, 6-7=-98/198, 5-6=0/0
WEBS	3-7=-164/221, 3-6=-277/138

**NOTES**

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

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4, 162 lb uplift at joint 2 and 13 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,  
Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-4=-60, 5-8=-20  
Concentrated Loads (lb)  
Vert: 11=73 (F=37, B=37), 13=81 (F=40, B=40), 14=6 (F=3, B=3)



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

April 20,2026

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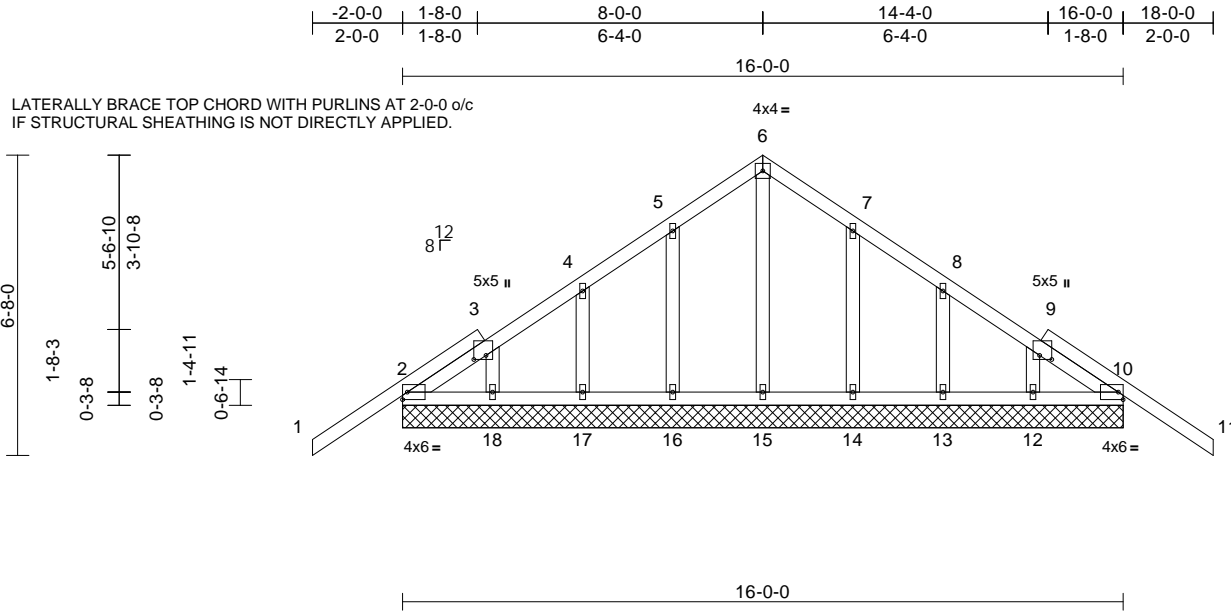
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss E01	Truss Type Common Supported Gable	Qty 2	Ply 1	Allred Job Reference (optional)	T40878670
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35  
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Page: 1



Scale = 1:51.2

Plate Offsets (X, Y): [3:0-1-1,0-3-4], [9:0-1-1,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	22	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 94 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size) 2=16-0-0, 10=16-0-0, 12=16-0-0,  
13=16-0-0, 14=16-0-0, 15=16-0-0,  
16=16-0-0, 17=16-0-0, 18=16-0-0  
Max Horiz 2=116 (LC 11)  
Max Uplift 2=70 (LC 12), 10=70 (LC 12),  
13=30 (LC 12), 14=17 (LC 12),  
16=17 (LC 12), 17=30 (LC 12)  
Max Grav 2=261 (LC 1), 10=261 (LC 1),  
12=105 (LC 3), 13=173 (LC 1),  
14=164 (LC 24), 15=143 (LC 17),  
16=165 (LC 17), 17=173 (LC 1),  
18=108 (LC 17)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/67, 2-3=-147/116, 3-4=-74/64,  
4-5=-71/81, 5-6=-83/145, 6-7=-83/144,  
7-8=-51/82, 8-9=-42/29, 9-10=-145/111,  
10-11=0/67  
BOT CHORD 2-18=-103/169, 17-18=-48/136,  
16-17=-48/136, 15-16=-48/136,  
14-15=-48/136, 13-14=-48/136,  
12-13=-48/136, 10-12=-106/185  
WEBS 6-15=-102/10, 5-16=-127/90, 4-17=-126/100,  
3-18=-94/65, 7-14=-126/90, 8-13=-126/101,  
9-12=-95/66

#### NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;  
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 zone; cantilever  
left and right exposed ; end vertical left and right  
exposed;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 (II) MT20 unless otherwise  
indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 10) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 70 lb uplift at joint  
2, 70 lb uplift at joint 10, 17 lb uplift at joint 16, 30 lb uplift  
at joint 17, 17 lb uplift at joint 14, 30 lb uplift at joint 13,  
70 lb uplift at joint 2 and 70 lb uplift at joint 10.
- 11) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



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

April 20,2026

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**MiTek®**

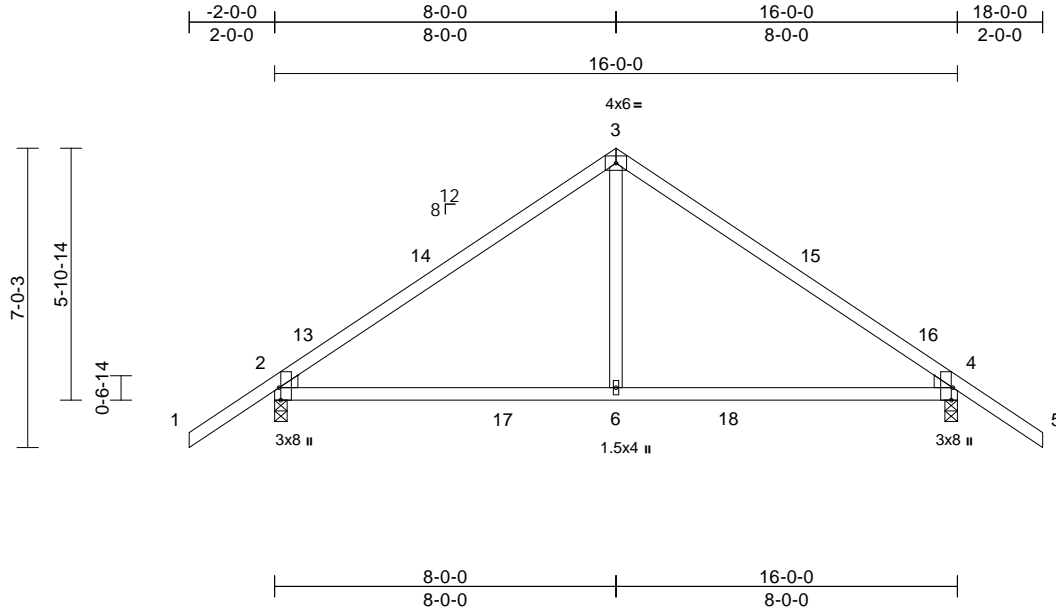
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss E02	Truss Type Common	Qty 3	Ply 1	Allred Job Reference (optional)	T40878671
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35  
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Page: 1



Scale = 1:54

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.11	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.19	6-9	>988	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 69 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=123 (LC 10)  
Max Uplift 2=48 (LC 12), 4=48 (LC 12)  
Max Grav 2=849 (LC 17), 4=849 (LC 18)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

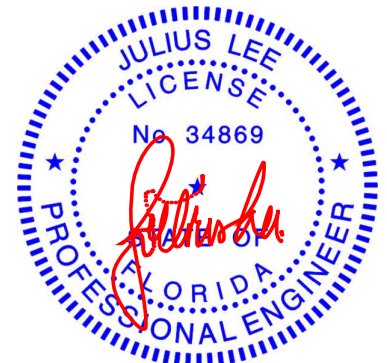
TOP CHORD 1-2=0/67, 2-3=-849/96, 3-4=-848/96,  
4-5=0/67  
BOT CHORD 2-6=0/661, 4-6=0/661  
WEBS 3-6=0/444

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;  
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,  
Zone1 1-0-0 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1  
12-2-15 to 18-0-0 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) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 48 lb uplift at joint  
2 and 48 lb uplift at joint 4.
- 7) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



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

April 20, 2026

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

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# MiTek®

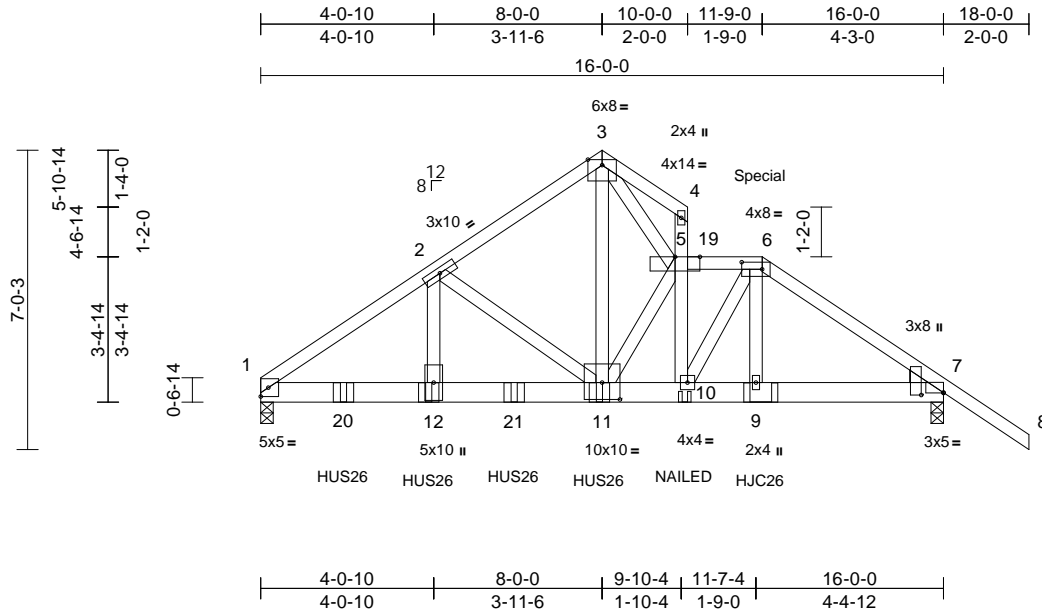
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss E03	Truss Type Roof Special Girder	Qty 1	Ply 2	Allred Job Reference (optional)	T40878672
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:36  
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Page: 1



Scale = 1:54

Plate Offsets (X, Y): [6:0-5-12,0-2-0], [7:Edge,0-0-1], [7:0-0-10,0-6-4], [11:0-5-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.09	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.18	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 224 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.2  
WEDGE Right: 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=0-3-8, 7=0-3-8  
Max Horiz 1=-106 (LC 6)  
Max Grav 1=5555 (LC 13), 7=3110 (LC 14)

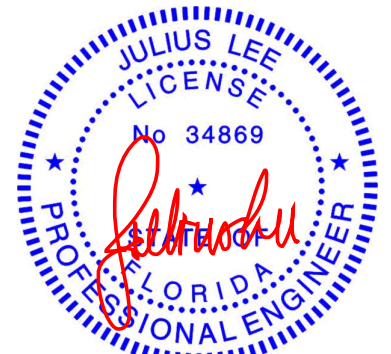
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-7864/0, 2-3=-4655/0, 3-4=-607/0, 5-10=-2615/0, 4-5=-395/0, 5-6=-5287/0, 6-7=-4789/0, 7-8=0/67  
BOT CHORD 1-12=0/6563, 11-12=0/6563, 10-11=0/5228, 9-10=0/3951, 7-9=0/3945  
WEBS 3-5=-5646/0, 6-10=0/2578, 6-9=0/172, 3-11=0/7245, 5-11=-2554/0, 2-11=-3299/0, 2-12=0/3518

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 1-11-4 from the left end to 7-11-4 to connect truss(es) to back face of bottom chord.
- Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 11-8-10 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 66 lb up at 11-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

Vert: 10=-119 (B), 6=-52 (B), 9=-57 (B), 11=-1577 (B), 12=-1577 (B), 20=-1577 (B), 21=-1577 (B)

- 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 0-6-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-11 2x4 - 1 row at 0-7-0 oc, member 2-12 2x4 - 2 rows staggered 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.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-4=-60, 5-6=-60, 6-8=-60, 13-16=-20  
Concentrated Loads (lb)



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

April 20,2026

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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 the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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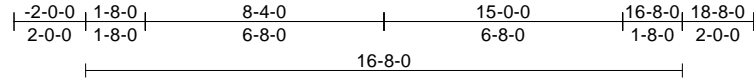
Job 0825-019	Truss F01	Truss Type Common Supported Gable	Qty 1	Ply 1	Allred Job Reference (optional)	T40878673
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Mayo Truss Company, Inc., Mayo, FL - 32066,

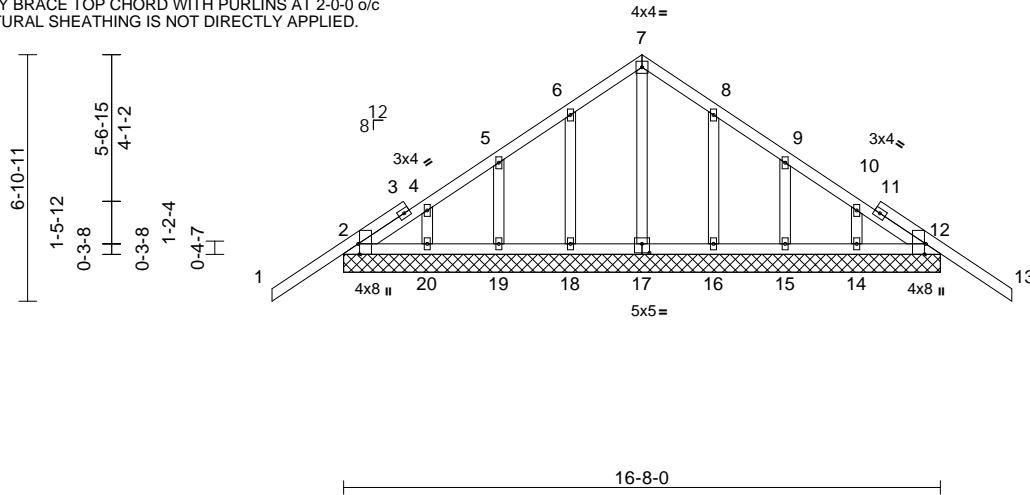
Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:36

Page: 1

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



Scale = 1:64.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [12:0-3-8,Edge], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	24	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 95 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 2=16-8-0, 12=16-8-0, 14=16-8-0,  
 15=16-8-0, 16=16-8-0, 17=16-8-0,  
 18=16-8-0, 19=16-8-0, 20=16-8-0  
 Max Horiz 2=-120 (LC 10)  
 Max Uplift 2=-78 (LC 12), 12=-78 (LC 12),  
 15=-36 (LC 12), 16=-15 (LC 12),  
 18=-15 (LC 12), 19=-36 (LC 12)  
 Max Grav 2=268 (LC 1), 12=268 (LC 1),  
 14=122 (LC 18), 15=173 (LC 18),  
 16=164 (LC 24), 17=138 (LC 17),  
 18=165 (LC 17), 19=172 (LC 17),  
 20=121 (LC 3)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

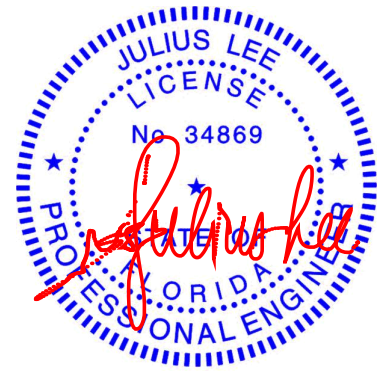
TOP CHORD 1-2=0/67, 2-4=-96/76, 4-5=-85/68,  
 5-6=-77/93, 6-7=-86/153, 7-8=-86/153,  
 8-9=-55/93, 9-10=-51/27, 10-12=-91/54,  
 12-13=0/67  
 BOT CHORD 2-20=-59/137, 19-20=-48/131,  
 18-19=-48/131, 16-18=-48/131,  
 15-16=-48/131, 14-15=-48/131,  
 12-14=-67/147  
 WEBS 7-17=-104/13, 6-18=-126/85, 5-19=-127/103,  
 4-20=-100/61, 8-16=-125/85, 9-15=-127/103,  
 10-14=-100/60

**NOTES**

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2, 78 lb uplift at joint 12, 15 lb uplift at joint 18, 36 lb uplift at joint 19, 15 lb uplift at joint 16, 36 lb uplift at joint 15, 78 lb uplift at joint 2 and 78 lb uplift at joint 12.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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

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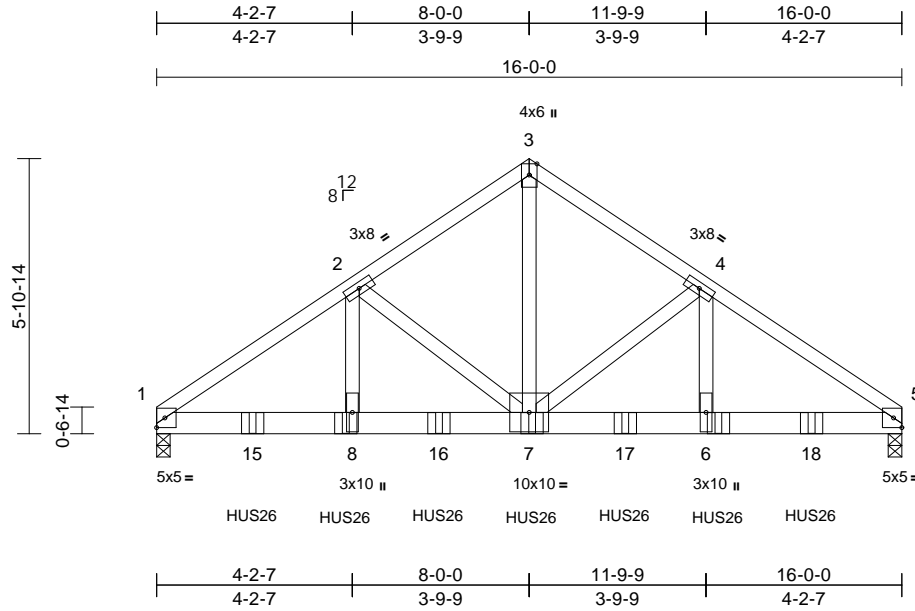
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss F02	Truss Type Common Girder	Qty 1	Ply 2	Allred Job Reference (optional)	T40878674
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:49.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.16	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 190 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=0-3-8, 5=0-3-8  
 Max Horiz 1=98 (LC 7)  
 Max Grav 1=5366 (LC 13), 5=5409 (LC 14)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-7838/0, 2-3=-5573/0, 3-4=-5574/0, 4-5=-7838/0  
 BOT CHORD 1-8=0/6529, 7-8=0/6529, 6-7=0/6462, 5-6=0/6462  
 WEBS 2-8=0/2545, 2-7=-2396/0, 3-7=0/5899, 4-7=-2397/0, 4-6=0/2544

**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 0-7-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-4-0 oc, Except member 2-7 2x4 - 1 row at 0-9-0 oc, Except member 4-7 2x4 - 1 row at 0-9-0 oc, member 3-7 2x4 - 1 row at 0-8-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;  
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional); cantilever left and right exposed ;  
 end vertical left and right exposed; Lumber DOL=1.60  
 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (lb/ft)  
 Vert: 1-3=-60, 3-5=-60, 9-12=-20  
 Concentrated Loads (lb)  
 Vert: 8=-1250 (B), 7=-1250 (B), 6=-1250 (B), 15=-1250 (B), 16=-1250 (B), 17=-1250 (B), 18=-1250 (B)



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

April 20,2026

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

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**MiTek®**

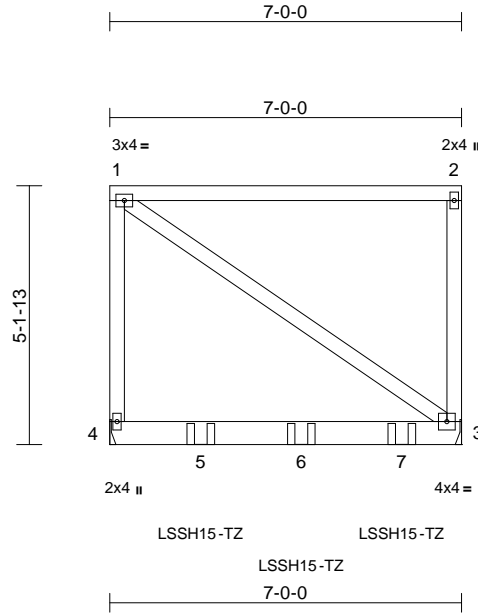
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss G01	Truss Type Flat Girder	Qty 1	Ply 1	Allred Job Reference (optional)	T40878675
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37  
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Page: 1



Scale = 1:45.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.10	3-4	>800	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.22	3-4	>366	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 51 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-9-12 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical  
Max Horiz 4=-133 (LC 6)  
Max Uplift 3=-141 (LC 5), 4=-126 (LC 4)  
Max Grav 3=761 (LC 13), 4=678 (LC 14)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-205/95, 1-2=-52/47, 2-3=-201/47  
BOT CHORD 3-4=-119/103  
WEBS 1-3=-82/82

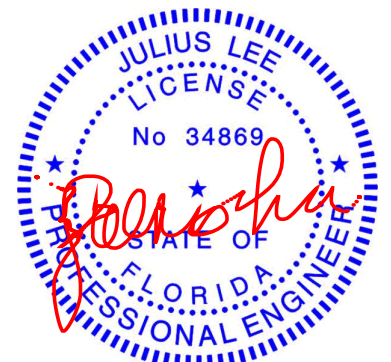
#### NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 4 and 141 lb uplift at joint 3.
- Use MiTek LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 5-9-12 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  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 3-4=-20  
Concentrated Loads (lb)  
Vert: 5=-238 (B), 6=-238 (B), 7=-238 (B)



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

April 20,2026

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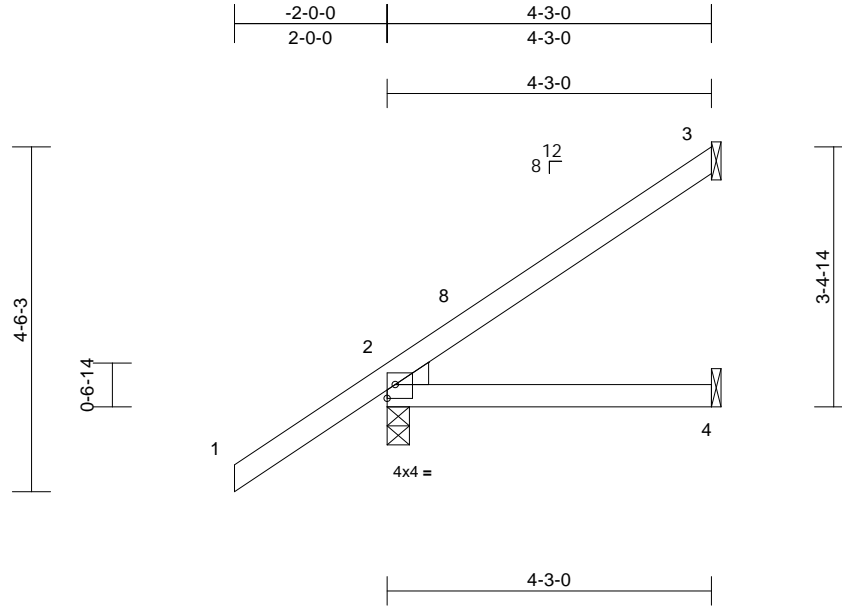
Job 0825-019	Truss J01	Truss Type Jack-Open	Qty 1	Ply 1	Allred Job Reference (optional)	T40878676
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37

Page: 1

ID:qkvk25ZxcCmbRsC3St7ab7yoFC5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 18 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
 Max Horiz 2=115 (LC 12)  
 Max Uplift 2=-39 (LC 12), 3=-29 (LC 12)  
 Max Grav 2=316 (LC 1), 3=100 (LC 17), 4=72 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

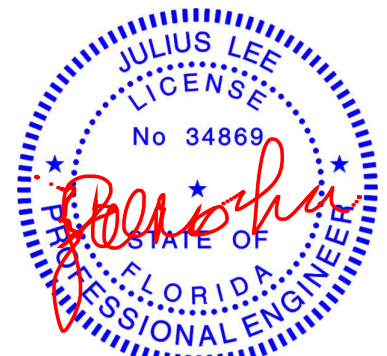
TOP CHORD 1-2=0/67, 2-3=-268/126  
 BOT CHORD 2-4=-89/109

#### NOTES

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

- 6) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 29 lb uplift at joint  
 3 and 39 lb uplift at joint 2.
- 7) This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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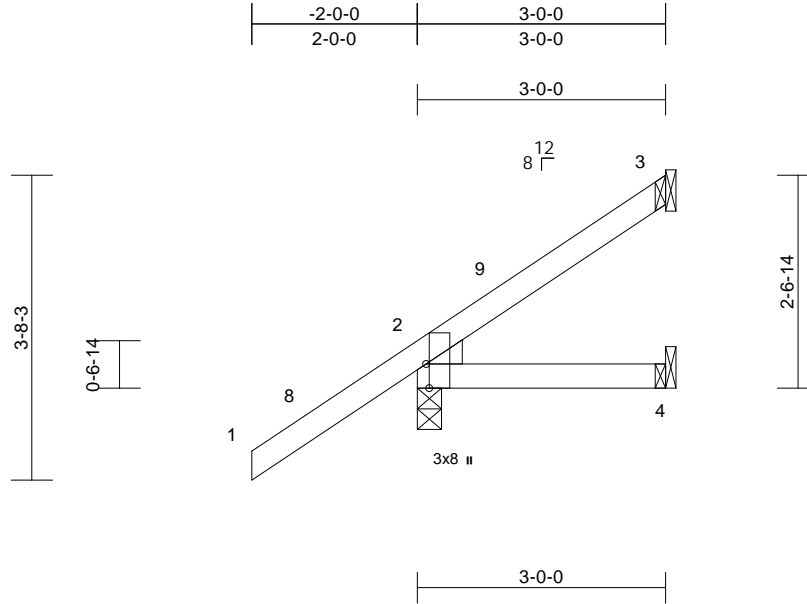
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss J02	Truss Type Jack-Open	Qty 2	Ply 1	Allred Job Reference (optional)	T40878677
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37  
ID:jV8FuScSfRG0wUWrhjCWlzyoFC1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:27.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

**LUMBER**

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 53 lb uplift at joint 2.

**LOAD CASE(S)** Standard

**BRACING**

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

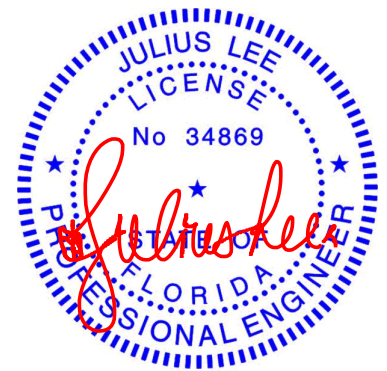
**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=95 (LC 12)  
Max Uplift 2=-53 (LC 12), 3=-15 (LC 12)  
Max Grav 2=278 (LC 1), 3=60 (LC 17), 4=47 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/67, 2-3=-230/126  
BOT CHORD 2-4=-105/132

**NOTES**

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



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

April 20,2026

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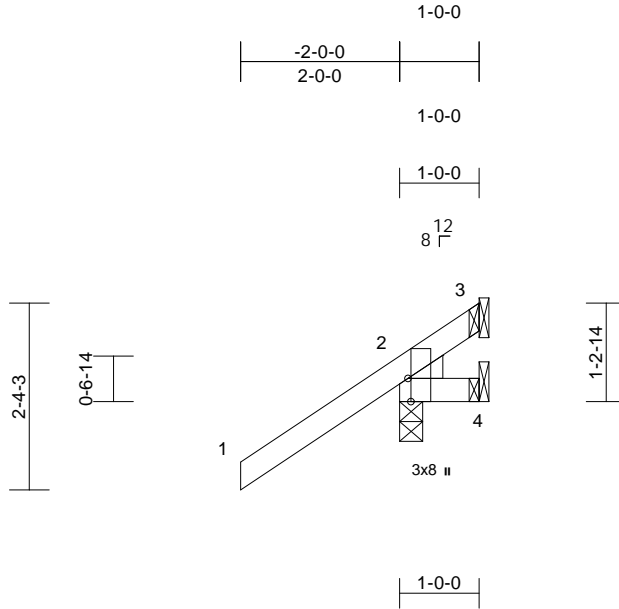
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss J03	Truss Type Jack-Open	Qty 2	Ply 1	Allred Job Reference (optional)	T40878678
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37  
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Page: 1



Scale = 1:29

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

#### LUMBER

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

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 52 lb uplift at joint 4 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard

#### BRACING

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

#### REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=64 (LC 12)  
Max Uplift 2=-110 (LC 12), 3=-30 (LC 1), 4=-52 (LC 1)  
Max Grav 2=281 (LC 1), 3=23 (LC 12), 4=38 (LC 12)

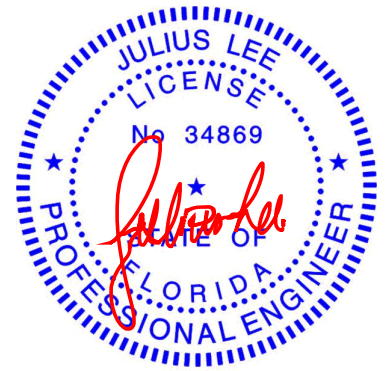
#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/67, 2-3=-160/110  
BOT CHORD 2-4=-109/138

#### NOTES

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



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

April 20,2026

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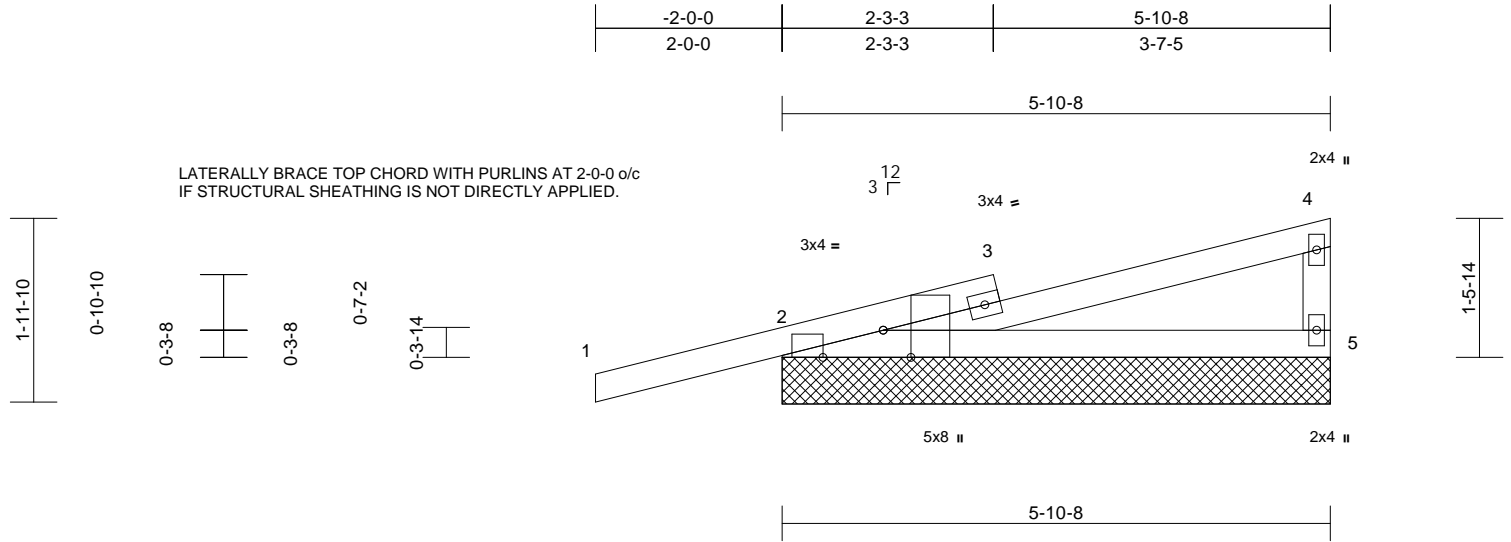
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss M01	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	Allred Job Reference (optional)	T40878679
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:VaYFdzW7czamp10j8bKVymyoExN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcDoi7J4zJC?f

Page: 1



Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS** (size) 2=5-10-8, 5=5-10-8

Max Horiz 2=39 (LC 11)  
Max Uplift 2=-58 (LC 12)  
Max Grav 2=370 (LC 1), 5=208 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

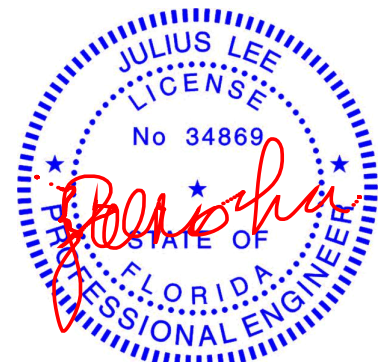
TOP CHORD 4-5=-130/158, 1-2=0/29, 2-4=-142/60  
BOT CHORD 2-5=-17/41

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 58 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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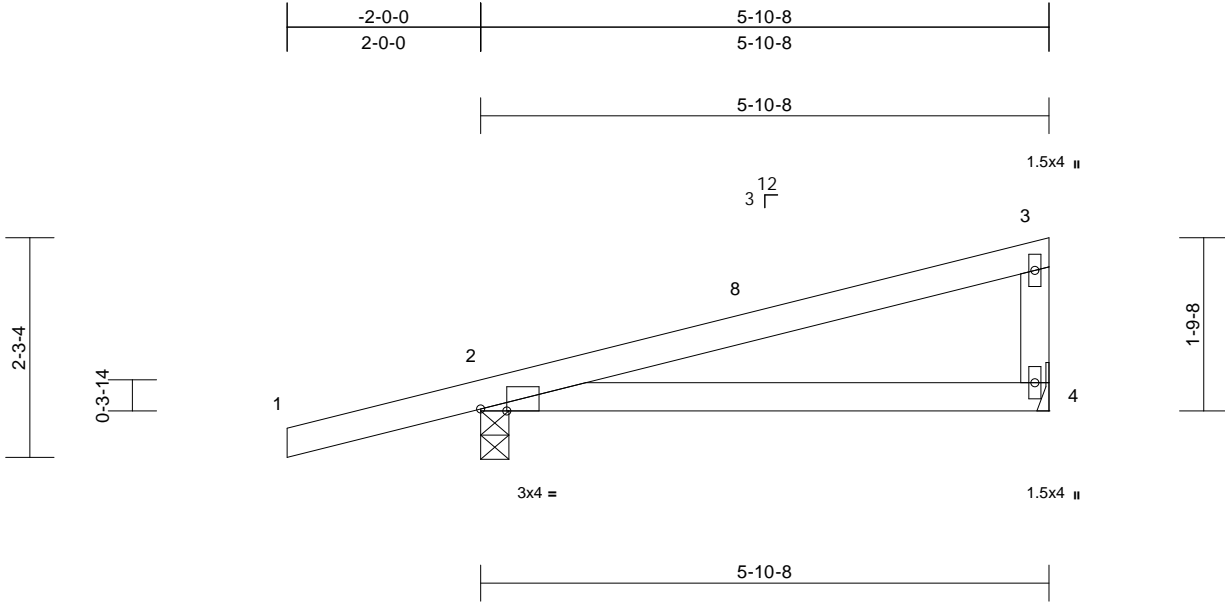
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Allred	T40878680
0825-019	M02	Monopitch	15	1	Job Reference (optional)	

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37  
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Page: 1



Scale = 1:23.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.09	4-7	>791	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 2=0-3-8, 4= Mechanical  
 Max Horiz 2=47 (LC 11)  
 Max Uplift 2=-84 (LC 12), 4=-18 (LC 12)  
 Max Grav 2=370 (LC 1), 4=208 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/29, 2-3=-157/41, 3-4=-142/198  
 BOT CHORD 2-4=-44/149

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-1-0, Zone1 1-1-0 to 5-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4 and 84 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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

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

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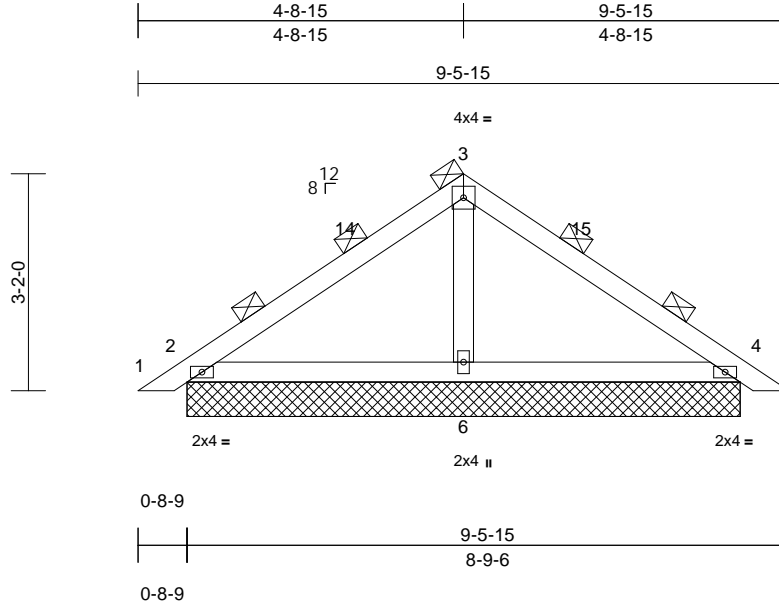
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 0825-019	Truss PB01	Truss Type Piggyback	Qty 2	Ply 2	Allred Job Reference (optional)	T40878681
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38  
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Page: 1



Scale = 1:33.6

Loading	(psf)	Spacing	4-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 65 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
(Switched from sheeted: Spacing > 2-8-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
bracing.

**REACTIONS**

(size) 2=8-0-13, 4=8-0-13, 6=8-0-13  
Max Horiz 2=110 (LC 11)  
Max Uplift 2=-45 (LC 12), 4=-45 (LC 12)  
Max Grav 2=392 (LC 1), 4=392 (LC 1), 6=615  
(LC 1)

**FORCES**

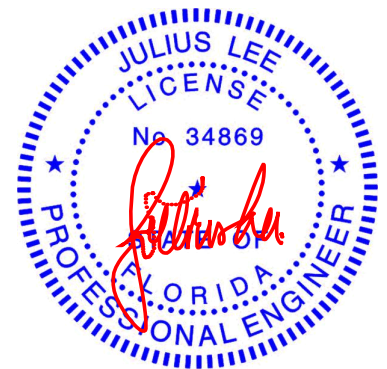
(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-2=0/30, 2-3=-239/181, 3-4=-239/161,  
4-5=0/30  
BOT CHORD 2-6=-10/149, 4-6=-26/125  
WEBS 3-6=-327/90

**NOTES**

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 0-3-2 to 3-3-2,  
Zone1 3-3-2 to 4-8-15, Zone3 4-8-15 to 9-2-12 zone;  
cantilever left and right exposed ; end vertical left and  
right exposed;C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 45 lb uplift at joint  
2, 45 lb uplift at joint 4, 45 lb uplift at joint 2 and 45 lb  
uplift at joint 4.
- See Standard Industry Piggyback Truss Connection  
Detail for Connection to base truss as applicable, or  
consult qualified building designer.
- Graphical purlin representation does not depict the size  
or the orientation of the purlin along the top and/or  
bottom chord.

**LOAD CASE(S)** Standard



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

April 20,2026

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**MiTek®**

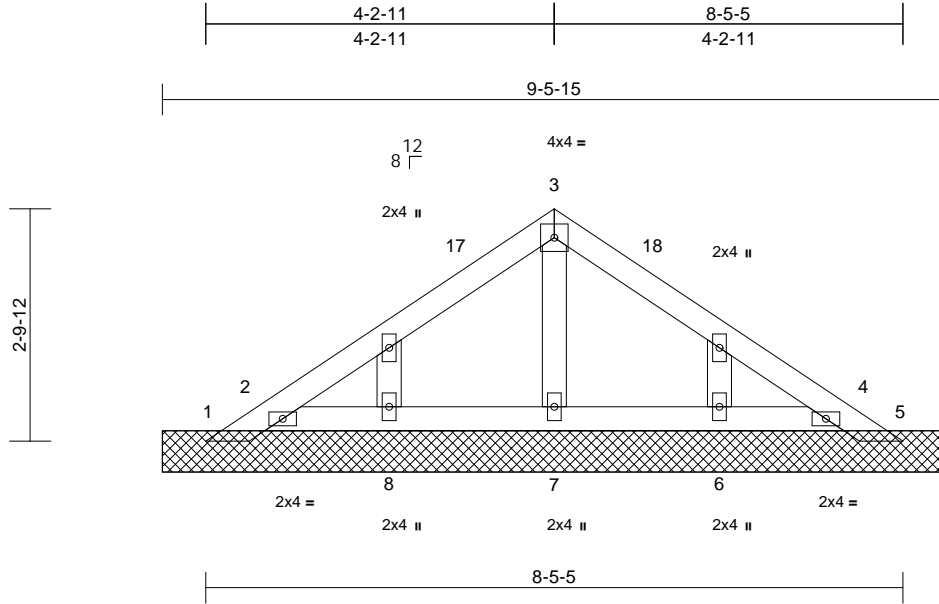
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 0825-019	Truss PB02	Truss Type Piggyback	Qty 2	Ply 1	Allred Job Reference (optional)	T40878682
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38  
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 31 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 1=9-5-15, 2=9-5-15, 4=9-5-15,  
5=9-5-15, 6=9-5-15, 7=9-5-15,  
8=9-5-15  
Max Horiz 1=-49 (LC 10)  
Max Uplift 1=-112 (LC 17), 2=-38 (LC 12),  
4=-45 (LC 12), 5=-87 (LC 18), 6=-2  
(LC 12), 8=-2 (LC 12)  
Max Grav 1=32 (LC 9), 2=308 (LC 17), 4=295  
(LC 1), 5=32 (LC 12), 6=99 (LC  
18), 7=76 (LC 3), 8=100 (LC 17)

**FORCES**

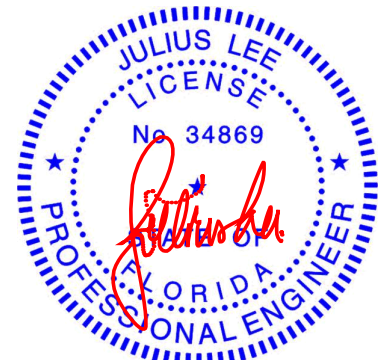
(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-2=-49/111, 2-3=-193/99, 3-4=-194/90,  
4-5=-55/68  
BOT CHORD 2-8=-10/110, 7-8=0/110, 6-7=0/110,  
4-6=-10/110

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Zone3 0-9-7 to 3-9-7,  
Zone1 3-9-7 to 4-8-15, Zone3 4-8-15 to 8-8-8 zone;  
cantilever left and right exposed ; end vertical left and  
right exposed;C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2, 45 lb uplift at joint 4, 112 lb uplift at joint 1, 87 lb uplift at joint 5, 2 lb uplift at joint 8, 2 lb uplift at joint 6, 38 lb uplift at joint 2 and 45 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



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

April 20,2026

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**MiTek®**

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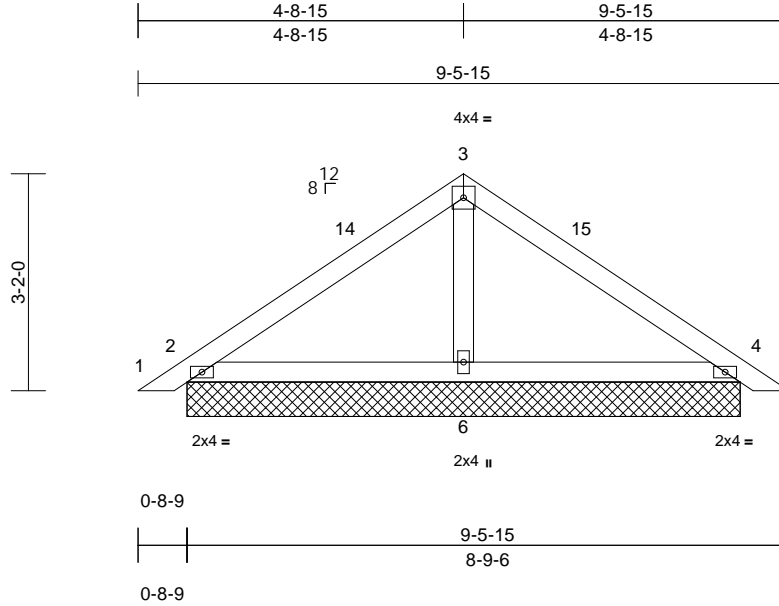
Job 0825-019	Truss PB03	Truss Type Piggyback	Qty 12	Ply 1	Allred Job Reference (optional)	T40878683
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38

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Scale = 1:33.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 33 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size) 2=8-0-13, 4=8-0-13, 6=8-0-13  
Max Horiz 2=55 (LC 11)  
Max Uplift 2=-22 (LC 12), 4=-22 (LC 12)  
Max Grav 2=194 (LC 1), 4=194 (LC 1), 6=311 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-106/94, 3-4=-106/83, 4-5=0/15

BOT CHORD 2-6=-4/63, 4-6=-12/63

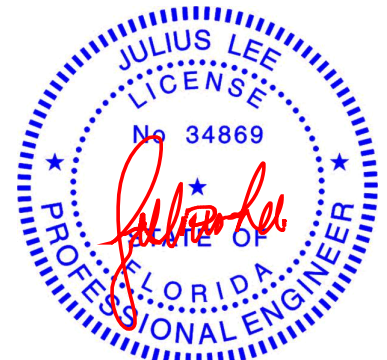
WEBS 3-6=-175/60

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-2 to 3-3-2, Zone1 3-3-2 to 4-8-15, Zone3 4-8-15 to 9-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 22 lb uplift at joint 4, 22 lb uplift at joint 2 and 22 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

April 20,2026

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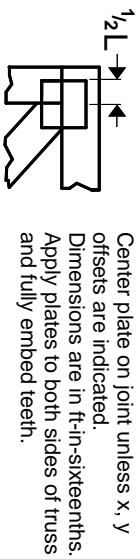
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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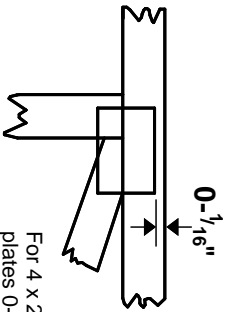
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

\* Plate location details available in MITtek software or upon request.

## PLATE SIZE

4 X 4

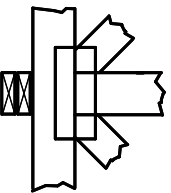
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

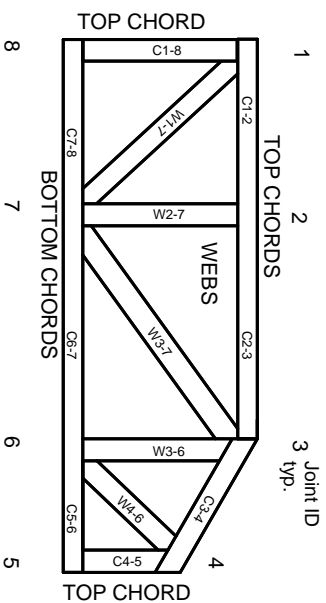


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:

ESR-1-1988, ESR-2-362, ESR-2-685, ESR-3-282  
ESR-4-722, ESL-1-388

## Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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# 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.

# MITek®

MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023