

75438

# MiTek

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

RE: 260108-01KM - Mitch Brown

### MiTek, Inc.

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

#### Site Information:

Customer Info: Solid Rock Builders Project Name: . Model: .

Lot/Block: Subdivision: .

Address: *10144 S*

City: *High Springs* State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2023/TPI2014

Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Roof Load: 34.0 psf

Floor Load: N/A psf

This package includes 30 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.

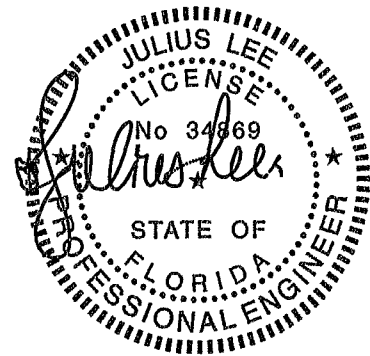
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T39754975	M01	1/9/26	23	T39754997	J07	1/9/26
2	T39754976	H12	1/9/26	24	T39754998	T05	1/9/26
3	T39754977	H11	1/9/26	25	T39754999	T04	1/9/26
4	T39754978	H10	1/9/26	26	T39755000	T03	1/9/26
5	T39754979	H09	1/9/26	27	T39755001	GE02	1/9/26
6	T39754980	H08	1/9/26	28	T39755002	T02	1/9/26
7	T39754981	H07	1/9/26	29	T39755003	T01	1/9/26
8	T39754982	T07	1/9/26	30	T39755004	GE01	1/9/26
9	T39754983	J06	1/9/26				
10	T39754984	J05	1/9/26				
11	T39754985	J04	1/9/26				
12	T39754986	J02	1/9/26				
13	T39754987	J01	1/9/26				
14	T39754988	CJ01	1/9/26				
15	T39754989	H05	1/9/26				
16	T39754990	H04	1/9/26				
17	T39754991	H03	1/9/26				
18	T39754992	H02	1/9/26				
19	T39754993	H06	1/9/26				
20	T39754994	J03	1/9/26				
21	T39754995	H01	1/9/26				
22	T39754996	J08	1/9/26				

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

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:

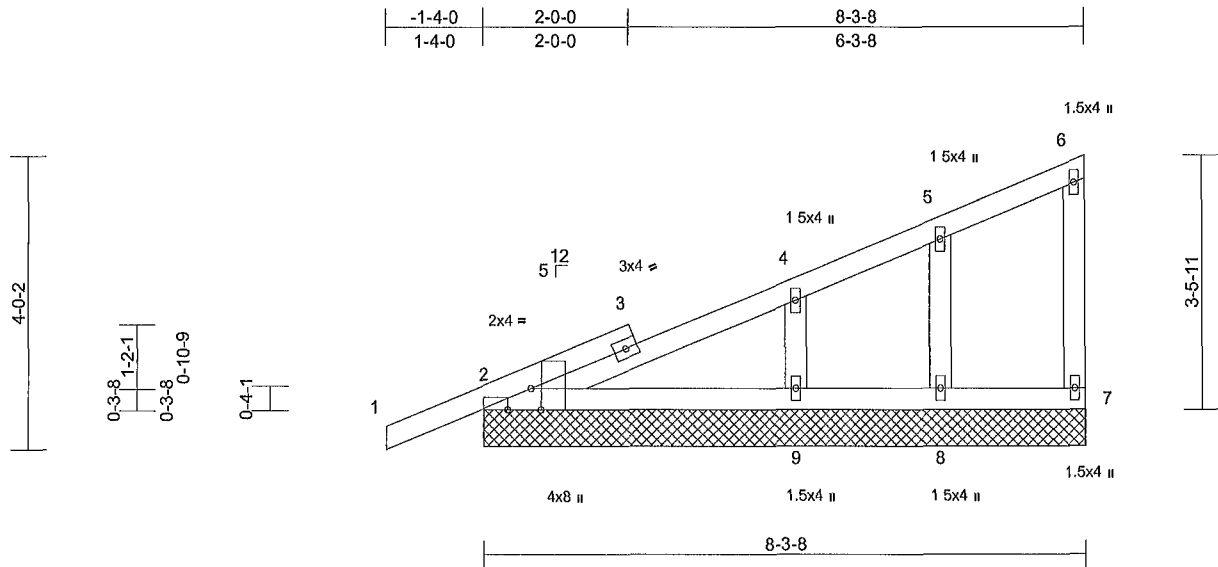
January 9, 2026

Job 260108-01KM	Truss M01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754975
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40 22  
ID:p5wFE34ZCiw\_tjZq0DQTDzxCk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f

Page: 1



Scale = 1/32

Plate Offsets (X, Y) [2 0-3-8,Edge], [2 0-3-13,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 20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 12	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 06	Horz(CT)	0 00	7	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 39 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 or 6-0-0 oc purlins, except end verticals  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS**

(size) 2=8-3-8, 7=8-3-8, 8=8-3-8, 9=8-3-8  
Max Horiz 2=155 (LC 11)  
Max Uplift 2=-100 (LC 12), 7=-24 (LC 9),  
8=-46 (LC 12), 9=-80 (LC 12)  
Max Grav 2=207 (LC 1), 7=62 (LC 17), 8=93  
(LC 1), 9=267 (LC 1)

**FORCES**

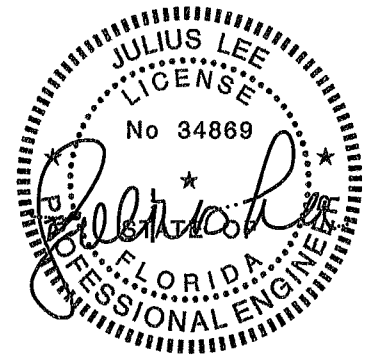
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-4=-311/166, 4-5=-177/114,  
5-6=-93/94, 6-7=-70/108  
BOT CHORD 2-9=-72/96, 8-9=-72/96, 7-8=-72/96  
WEBS 5-8=-86/201, 4-9=-186/322

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TC DL=4 2psf, BCDL=4 2psf; h=18ft,  
B=50ft; L=30ft; eave=2ft, Cat II, Exp C, Enclosed,  
MWFRS (directional) and C-C Zone3 zone, cantilever  
left and right exposed, end vertical left and right  
exposed C-C for members and forces & MWFRS for  
reactions shown, Lumber DOL=1 60 plate grip  
DOL=1 60
- 2) Truss designed for wind loads in the plane of the truss  
only For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1
- 3) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component

- 4) Gable requires continuous bottom chord bearing
  - 5) Gable studs spaced at 2-0-0 oc
  - 6) This truss has been designed for a 10 0 psf bottom  
chord live load nonconcurrent with any other live loads
  - 7) \* This truss has been designed for a live load of 20 0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members
  - 8) All bearings are assumed to be SP No 2
  - 9) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 100 lb uplift at joint  
2, 24 lb uplift at joint 7, 46 lb uplift at joint 8, 80 lb uplift at  
joint 9 and 100 lb uplift at joint 2
- LOAD CASE(S) Standard



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

January 9, 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/TPI Quality Criteria and BSB-22 available from Truss Plate Institute (www.tpinet.org) and BCS Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

**MiTek®**

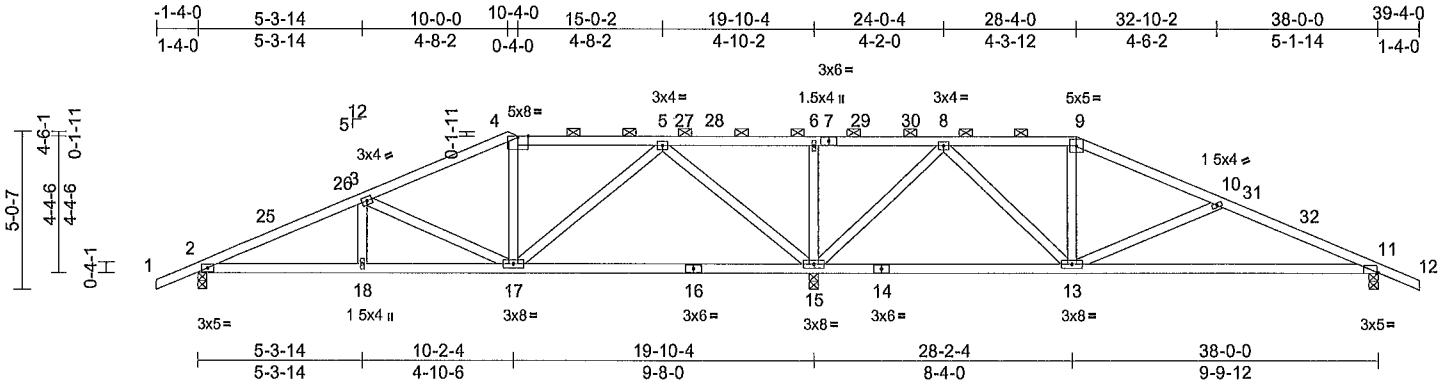
18023 Swingley Ridge Rd  
Chesterfield MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H12	Truss Type Roof Special	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754976
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40:21  
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Page: 1



Scale = 1/70

Plate Offsets (X, Y) [11 0-0-6 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	Vert(LL)	-0 17	15-17	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	Vert(CT)	-0 30	13-24	>730	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	Horz(CT)	0 02	11	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS						Weight 189 lb	FT = 20%

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

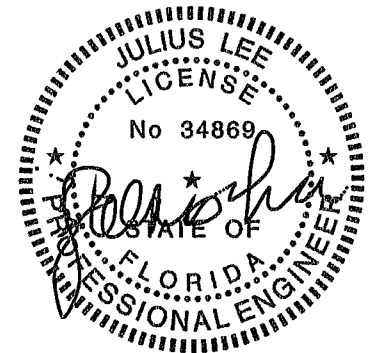
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-8-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max ) 4-9  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

**REACTIONS** (size) 2=0-3-8, 11=0-3-8, 15=0-3-8  
Max Horiz 2=111 (LC 11)  
Max Uplift 2=-218 (LC 12), 11=-197 (LC 12), 15=-474 (LC 12)  
Max Grav 2=605 (LC 23), 11=537 (LC 24), 15=1646 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/28, 2-3=-980/406 3-4=-567/237, 4-5=-482/263, 5-6=-240/786, 6-8=-240/786, 8-9=-337/192 9-10=-425/177, 10-11=-780/359, 11-12=0/28  
BOT CHORD 2-18=-289/877, 17-18=-289/877, 15-17=-78/115, 13-15=-145/167, 11-13=-265/703  
WEBS 3-18=0/132, 6-15=-245/132, 9-13=-105/102, 10-13=-398/301, 4-17=-63/79, 3-17=-446/282, 8-15=-896/420, 8-13=-213/561, 5-17=-198/562, 5-15=-1003/477

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft; B=50ft; L=38ft; eave=5ft, Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-4-0, Zone2 10-4-0 to 15-8-8, Zone1 15-8-8 to 28-4-0, Zone2 28-4-0 to 33-8-8, Zone1 33-8-8 to 39-4-0 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
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 2, 474 lb uplift at joint 15 and 197 lb uplift at joint 11
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S)** Standard

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



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MITek Inc. DBA MITek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

January 9, 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.sbccomponents.com)

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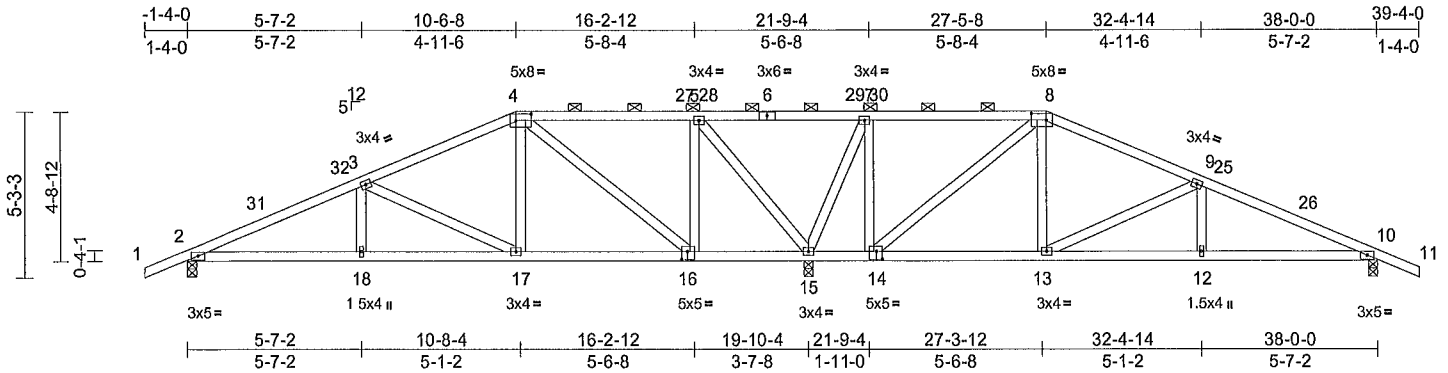
16023 Swingley Ridge Rd  
Chesterfield MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H11	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754977
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Coastal Truss & amp, Vinyl Sliding Patterson GA - 31577

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Page: 1



Scale = 1/70 1

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

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 49	Vert(LL)	-0 04	18-21	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 32	Vert(CT)	-0 07	18-21	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 63	Horz(CT)	-0 02	2	n/a	n/a		
BCDL	7 0	Code	FBC2023/TP12014	Matrix-MS							Weight. 201 lb	FT = 20%

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

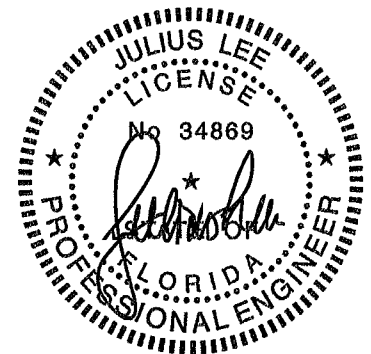
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except 2-0-0 oc purlins (10-0-0 max ) 4-8  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except 6-0-0 oc bracing 15-16,14-15

**REACTIONS** (size) 2=0-3-8, 10=0-3-8, 15=0-3-8  
Max Horiz 10=-118 (LC 10)  
Max Uplift 2=-216 (LC 12), 10=-195 (LC 12), 15=-478 (LC 12)  
Max Grav 2=605 (LC 23), 10=535 (LC 24), 15=1655 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 8-9=-329/135, 9-10=-801/272, 10-11=0/28, 4-5=-5/156, 5-7=-186/786, 7-8=-47/399, 1-2=0/28, 2-3=-978/335, 3-4=-510/200  
BOT CHORD 2-18=-239/863, 17-18=-239/863, 15-17=-157/427, 13-15=-426/267, 12-13=-171/700, 10-12=-171/700  
WEBS 9-12=0/189, 9-13=-498/247, 8-13=-57/328, 4-17=-58/325, 3-17=-495/245, 3-18=0/188, 5-16=-103/454 4-16=-623/233, 7-14=-131/513 8-14=-740/270, 5-15=-997/370 7-15=-908/346

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft; B=50ft, L=38ft; eave=5ft, Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-6-8, Zone2 10-6-8 to 15-11-0, Zone1 15-11-0 to 27-5-8, Zone2 27-5-8 to 32-10-0, Zone1 32-10-0 to 39-4-0 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
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 195 lb uplift at joint 10 and 478 lb uplift at joint 15
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard

**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:

January 9, 2026

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**MiTek®**

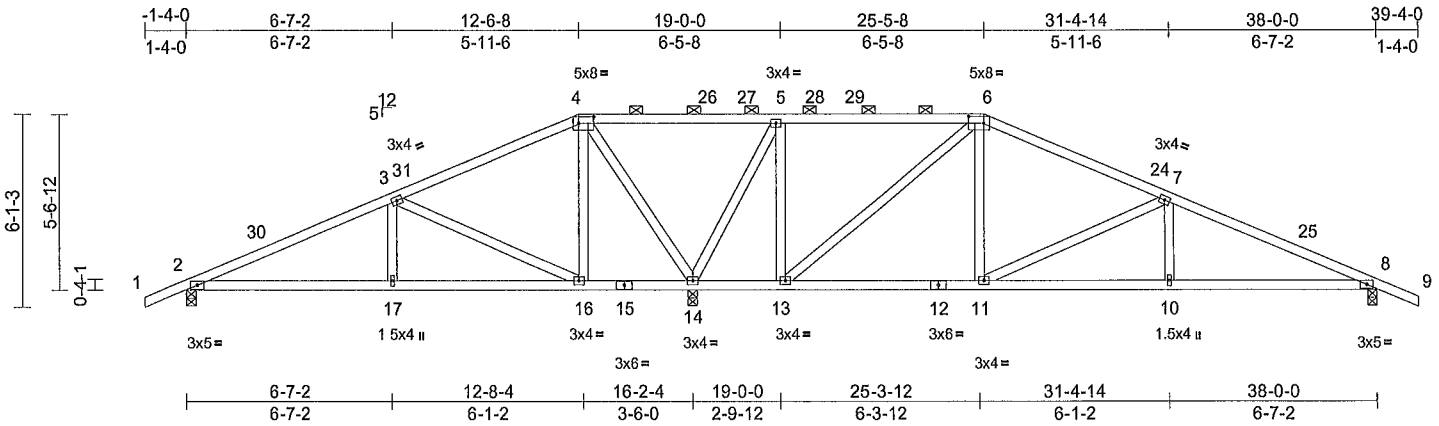
18023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H10	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754978
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Coastal Truss &amp; Vinyl Siding Patterson GA - 31577,

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14:40:21  
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Page: 1



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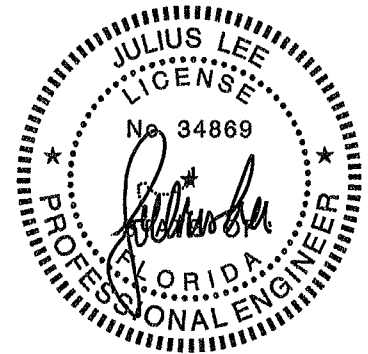
Plate Offsets (X, Y) [4 0-5-12 0-2-8], [6 0-5-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 64	Vert(LL)	-0 06	10-23	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 41	Vert(CT)	-0 11	10-23	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 89	Horz(CT)	-0 02	14	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 198 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No 2  
BOT CHORD 2x4 SP No 2  
WEBS 2x4 SP No 2  
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except 2-0-0 oc purlins (10-0-0 max ) 4-6  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing  
**REACTIONS** (size) 2=0-3-8 8=0-3-8, 14=0-3-8  
Max Horiz 8=-138 (LC 10)  
Max Uplift 2=-163 (LC 12), 8=-236 (LC 12), 14=-491 (LC 12)  
Max Grav 2=440 (LC 23) 8=676 (LC 24), 14=1706 (LC 1)  
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 6-7=-535/216, 7-8=-1111/378, 8-9=0/28, 4-5=-155/753, 5-6=0/248, 1-2=0/28, 2-3=-500/143, 3-4=-40/349  
BOT CHORD 2-17=-54/426 16-17=-54/426  
14-16=-272/223, 13-14=-248/206  
11-13=0/439, 10-11=-260/978, 8-10=-260/978  
WEBS 7-10=0/225, 7-11=-605/290, 6-11=-65/389  
6-13=-767/264, 5-13=-118/548,  
4-16=-69/349, 3-16=-620/292, 3-17=0/239,  
4-14=-867/318, 5-14=-1072/401

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf BCDL=4 2psf; h=18ft; B=50ft; L=38ft, eave=5ft, Cat. II, Exp C, Enclosed MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 12-6-8, Zone2 12-6-8 to 17-11-0, Zone1 17-11-0 to 25-5-8, Zone2 25-5-8 to 30-10-0, Zone1 30-10-0 to 39-4-0 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
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2, 236 lb uplift at joint 8 and 491 lb uplift at joint 14
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard

**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:

January 9, 2026

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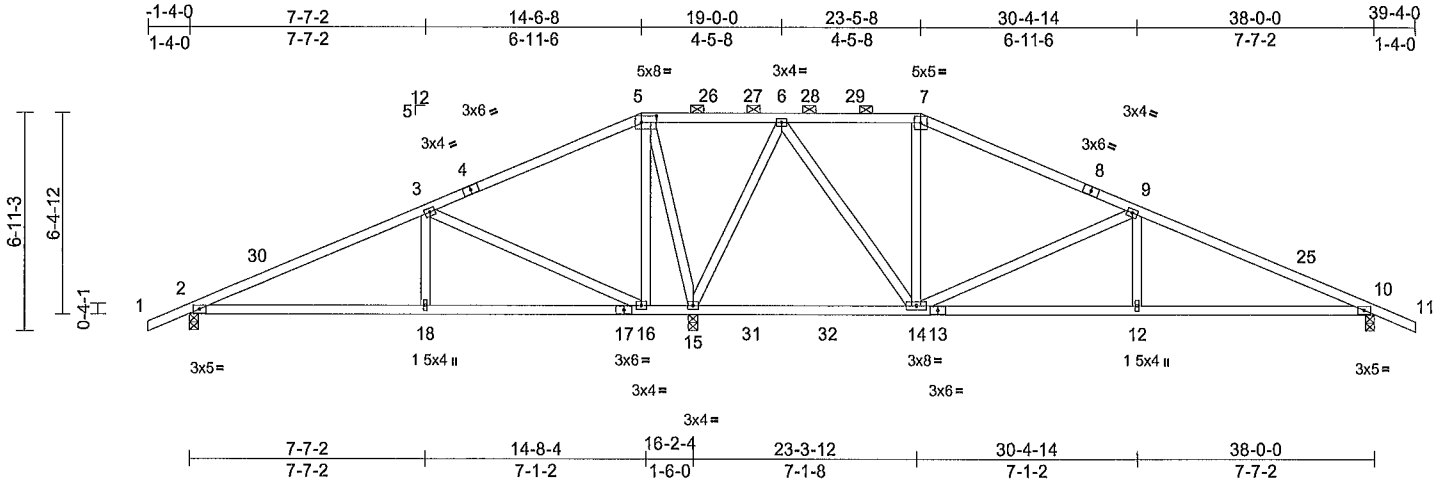
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss H09	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754979
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Coastal Truss & amp, Vinyl Sliding, Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc Thu Jan 08 14:40:21  
ID KvMl0k3xROn7F89BJBwQzxCqL-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrcDol7J4zJC?F

Page 1



Scale = 1/70 4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 65	Vert(LL)	-0 12	12-24	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 55	Vert(CT)	-0 21	12-24	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 94	Horz(CT)	-0 02	15	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 198 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max ) 5-7  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

**REACTIONS** (size) 2=0-3-8, 10=0-3-8, 15=0-3-8  
Max Horiz 10=-158 (LC 10)  
Max Uplift 2=-161 (LC 12), 10=-234 (LC 12), 15=-494 (LC 12)  
Max Grav 2=444 (LC 17), 10=718 (LC 18), 15=1931 (LC 19)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 7-9=-352/165, 9-10=-1066/355, 10-11=0/28, 5-6=-101/773, 6-7=-244/198, 1-2=0/28, 2-3=-438/162 3-5=-99/664  
BOT CHORD 2-18=-127/363, 16-18=-127/363, 15-16=-522/302, 14-15=-363/217, 12-14=-232/1058, 10-12=-232/1058  
WEBS 9-12=0/266, 9-14=-875/337, 7-14=-217/124, 5-16=-86/405, 3-16=-902/338, 3-18=0/282, 5-15=-884/314, 6-15=-1047/383, 6-14=-240/910

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft, B=50ft; L=38ft; eave=5ft; Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 14-6-8, Zone2 14-6-8 to 19-11-0, Zone1 19-11-0 to 23-5-8, Zone2 23-5-8 to 28-10-0, Zone1 28-10-0 to 39-4-0 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 = 7 0psf
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2, 234 lb uplift at joint 10 and 494 lb uplift at joint 15
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard

**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:

January 9, 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 ANS/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

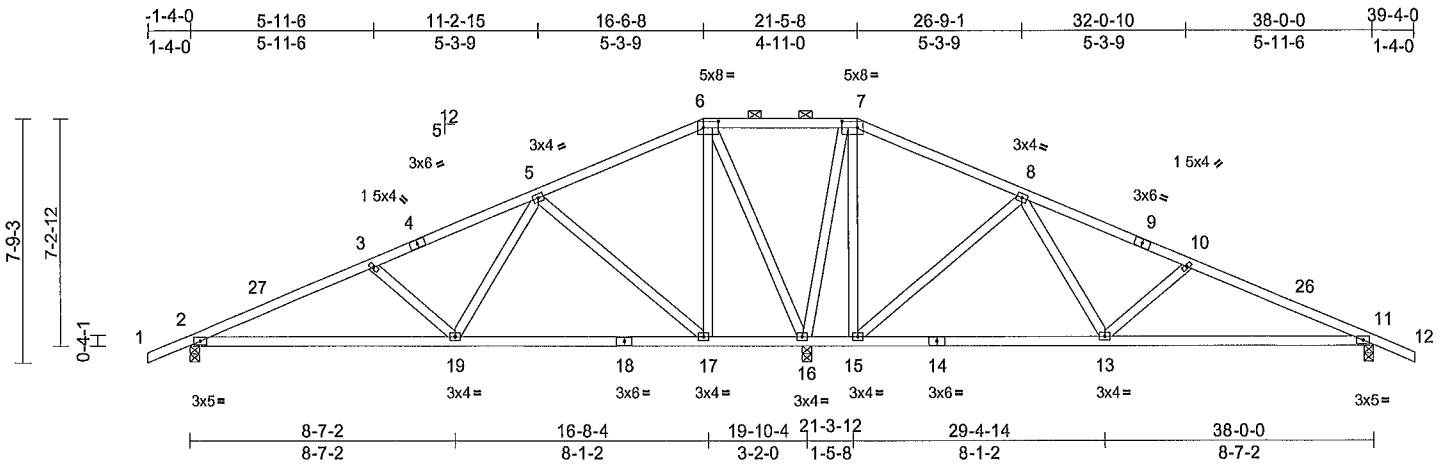


Job 260108-01KM	Truss H08	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754980
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Coastal Truss & amp, Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14 40 21  
ID:sjovpO2Jg4fGd?ZAibByOCzQcM-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD0L7J4zJC?f

Page: 1



Scale = 1/70.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.10	19-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.18	19-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight 209 lb	FT = 20%

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

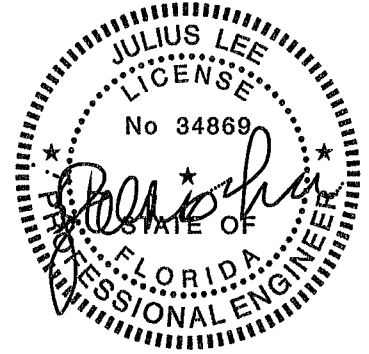
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except 2-0-0 oc purlins (10-0-0 max ) 6-7  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing, Except. 10-0-0 oc bracing 2-19

**REACTIONS** (size) 2=0-3-8, 11=0-3-8, 16=0-3-8  
Max Horiz 11=-178 (LC 10)  
Max Uplift 2=-196 (LC 12), 11=-174 (LC 12), 16=-519 (LC 12)  
Max Grav 2=576 (LC 23), 11=509 (LC 24), 16=1790 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 7-8=-84/579, 8-10=-433/119, 10-11=-675/189, 11-12=0/28, 6-7=-94/691, 1-2=0/28, 2-3=-845/255, 3-5=-604/186, 5-6=-9/377  
BOT CHORD 2-19=-162/752, 17-19=-88/305, 16-17=-291/267, 15-16=-478/327, 13-15=-210/160, 11-13=-104/595  
WEBS 10-13=-334/204, 8-13=-80/445, 8-15=-588/296, 7-15=-102/477, 6-17=-124/461, 5-17=-588/295, 5-19=-79/445, 3-19=-332/204, 6-16=-933/341, 7-16=-932/321

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TC DL=4 2psf; BCDL=4 2psf; h=18ft, B=50ft; L=38ft; eave=5ft; Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10 Zone1 2-5-10 to 16-6-8, Zone3 16-6-8 to 21-5-8, Zone2 21-5-8 to 26-9-1, Zone1 26-9-1 to 39-4-0 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 20.0 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 174 lb uplift at joint 11 and 519 lb uplift at joint 16
  - 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

**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:

January 9, 2026

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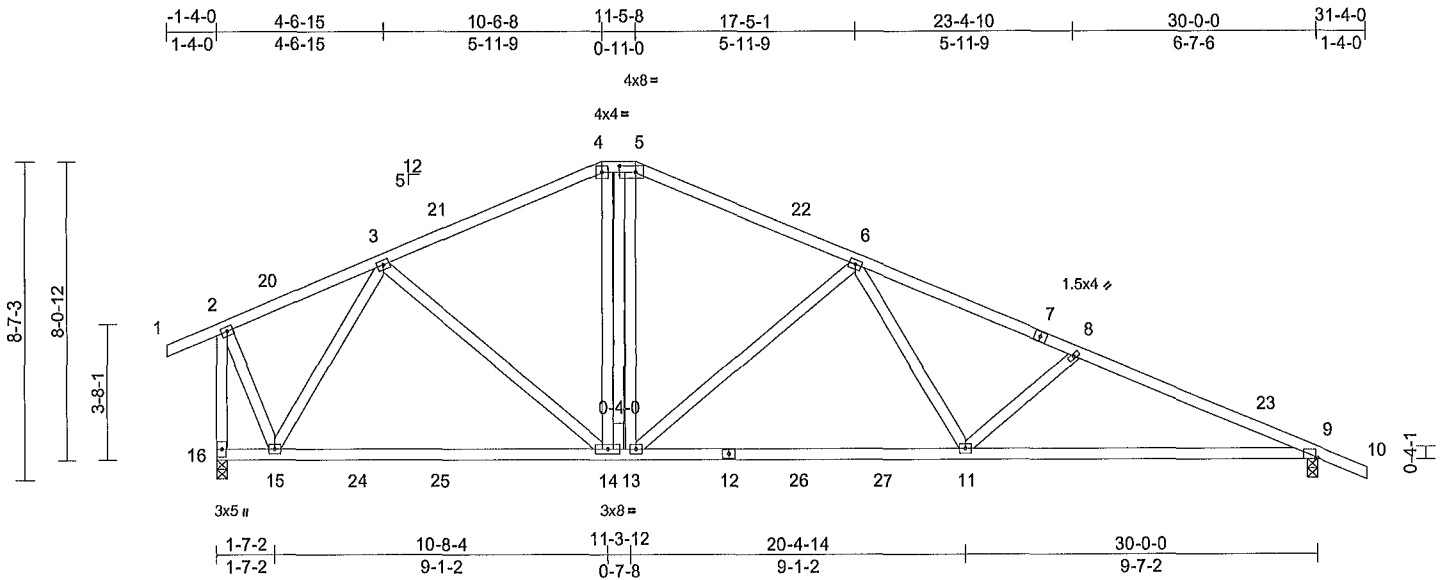
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314 434 1200 / MiTek-US.com

Job 260108-01KM	Truss H07	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754981
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Coastal Truss &amp; Vinyl Siding, Patterson, GA - 31577

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MiTek Industries Inc Thu Jan 08 14:40:21  
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Page: 1



Scale = 1/8"

Plate Offsets (X, Y) [5 0-5-4,0-2-0] [9 0-10-10,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 53	Vert(LL)	-0 23	11-13	>999	240	MT20	244/180
TCDL	7 0	Lumber DOL	1 25	BC	0 94	Vert(CT)	-0 36	11-13	>999	180		
BCLL	0 0*	Rep Stress incr	YES	WB	0 89	Horz(CT)	0 06	9	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 187 lb	FT = 20%

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

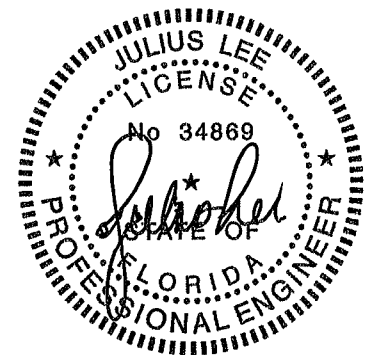
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-14 max.) 4-5  
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing

**REACTIONS** (size) 9=0-3-8, 16=0-3-8  
Max Horiz 16=267 (LC 10)  
Max Uplift 9=365 (LC 12), 16=368 (LC 12)  
Max Grav 9=1229 (LC 18) 16=1206 (LC 19)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-3=-524/236, 3-4=-1165/464, 4-5=-1031/474, 5-6=-1183/478, 6-8=-2134/658, 8-9=-2384/735, 9-10=0/28, 2-16=-1312/405  
BOT CHORD 15-16=-155/210, 14-15=-163/925, 13-14=-139/1096, 11-13=-364/1574, 9-11=-571/2168  
WEBS 3-15=-814/353, 3-14=-23/350, 4-14=-70/337, 5-14=-294/102, 5-13=-145/533, 6-13=-783/319, 6-11=-85/646, 8-11=-368/223, 2-15=-223/1089

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft, B=50ft, L=30ft, eave=4ft, Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-6-8, Zone3 18-6-8 to 19-5-8, Zone2 19-5-8 to 23-8-7, Zone1 23-8-7 to 39-4-0 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
  - All plates are 3x4 MT20 unless otherwise indicated
  - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
  - \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7 0psf
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9
  - 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

**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:

January 9, 2026

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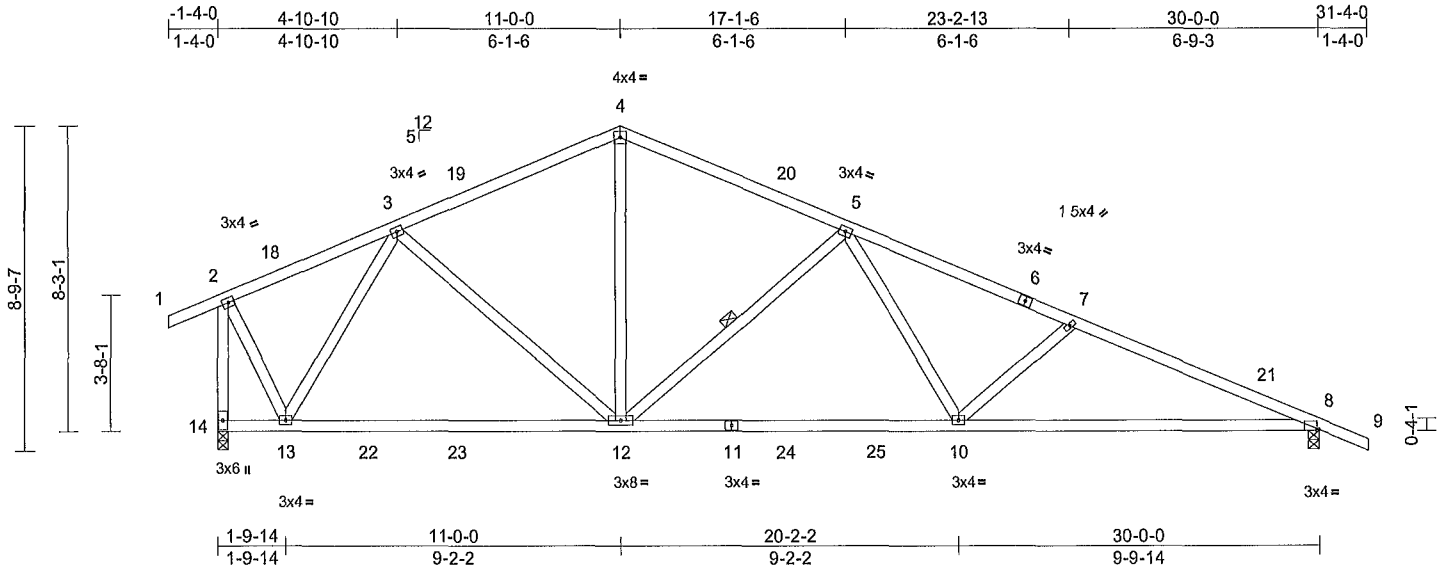
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 260108-01KM	Truss T07	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T39754982
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Coastal Truss &amp; Vinyl Siding Patterson, GA - 31577

Run 8 73 S Aug 13 2025 Print. 8 730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14:40:23  
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Page: 1



Scale = 1.59 0

Plate Offsets (X, Y) [8 0-0-10,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 56	Vert(LL)	-0 22	10-17	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 95	Vert(CT)	-0 39	10-17	>908	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 52	Horz(CT)	0 06	8	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 166 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except end verticals  
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing  
WEBS 1 Row at midpt 5-12

**REACTIONS**

(size) 8=0-3-8, 14=0-3-8  
Max Horiz 14=-271 (LC 10)  
Max Uplift 8=-365 (LC 12), 14=-368 (LC 12)  
Max Grav 8=1230 (LC 18), 14=1210 (LC 19)

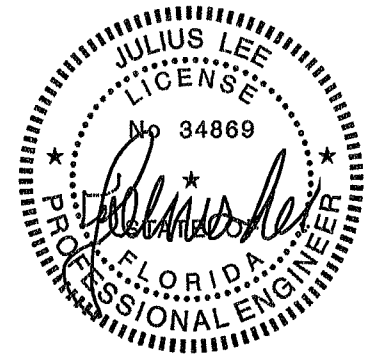
**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-3=-574/258, 3-4=-1166/483, 4-5=-1166/502, 5-7=-2112/684, 7-8=-2370/766, 8-9=0/28, 2-14=-1302/480  
BOT CHORD 13-14=-159/214, 12-13=-179/953, 10-12=-377/1553, 8-10=-589/2155  
WEBS 4-12=-160/604, 5-12=-785/338, 5-10=-89/651, 7-10=-381/232, 3-12=-21/320, 3-13=-774/346, 2-13=-236/1075

**NOTES**

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft; B=50ft, L=30ft, eave=4ft, Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 39-4-0 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.
  - All plates are 3x4 MT20 unless otherwise indicated
  - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
  - \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7 0psf
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 8
- LOAD CASE(S)** Standard



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

January 9, 2026

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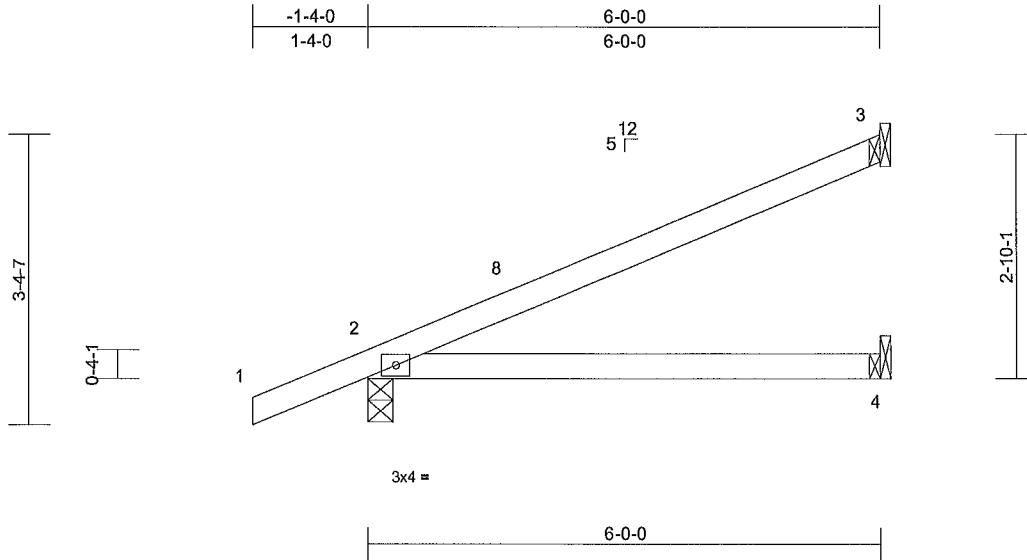
16023 Swingley Rldge Rd  
Chesterfield MO 63017  
314 434.1200 / MiTek-US.com

Job 260108-01KM	Truss J06	Truss Type Jack-Open	Qty 2	Ply 1	Mitch Brown Job Reference (optional)	T39754983
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Coastal Truss & amp, Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14:40:22  
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Page 1



Scale = 1/25

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	4-7	>836	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 38	Vert(CT)	-0 10	4-7	>714	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight 21 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 2=0-3-8, 3= Mechanical, 4=  
Mechanical  
Max Horiz 2=122 (LC 12)  
Max Uplift 2=-112 (LC 12), 3=-78 (LC 12)  
Max Grav 2=282 (LC 1), 3=136 (LC 1), 4=91  
(LC 3)

**FORCES**

(lb) - Maximum Compression/Maximum  
Tension

TOP CHORD 1-2=0/28, 2-3=-122/50  
BOT CHORD 2-4=-63/101

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TC DL=4 2psf, BC DL=4 2psf, h=18ft,  
B=50ft; L=30ft; eave=4ft, Cat. II, Exp C, Enclosed  
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0  
Zone1 1-8-0 to 5-11-4 zone, cantilever left and right  
exposed, end vertical left and right exposed, C-C  
for members and forces & MWFRS for reactions shown,  
Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom  
chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members
- 5) Bearings are assumed to be , Joint 2 SP No 2
- 6) Refer to girder(s) for truss to truss connections

- 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 78 lb uplift at joint  
3 and 112 lb uplift at joint 2
- LOAD CASE(S)** Standard



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

January 9, 2026

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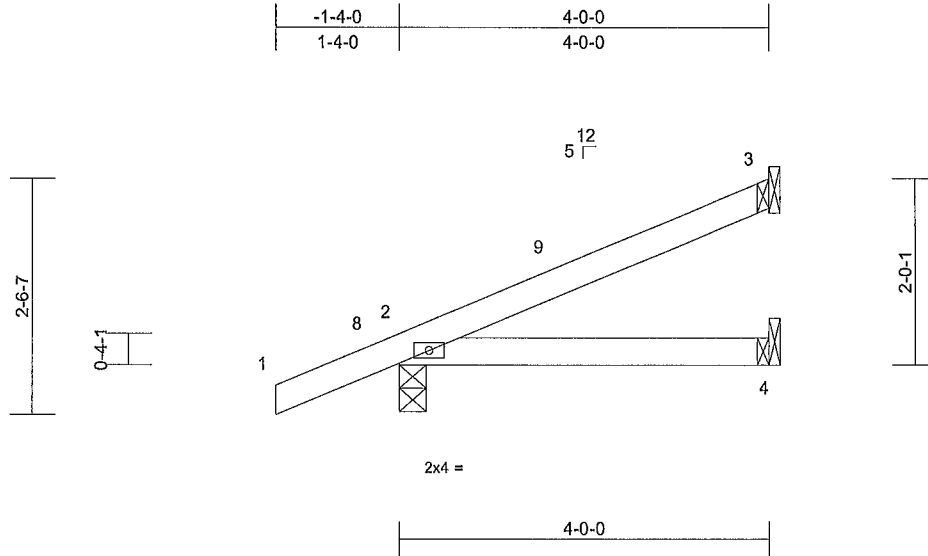
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITEK-US.com

Job 260108-01KM	Truss J05	Truss Type Jack-Open	Qty 2	Ply 1	Mitch Brown Job Reference (optional)	T39754984
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print. 8 730 S Aug 13 2025 MITek Industries, Inc. Thu Jan 08 14 40:22  
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Page 1



Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 18	Vert(LL)	0 02	4-7	>999	240
TCDL	7 0	Lumber DOL	1 25	BC	0 16	Vert(CT)	-0 02	4-7	>999	180
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a
BCDL	7 0	Code	FBC2023/TP12014	Matrix-MP						
									Weight 15 lb	FT = 20%

**LUMBER**

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 103 lb uplift at joint 2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

LOAD CASE(S) Standard

**REACTIONS**

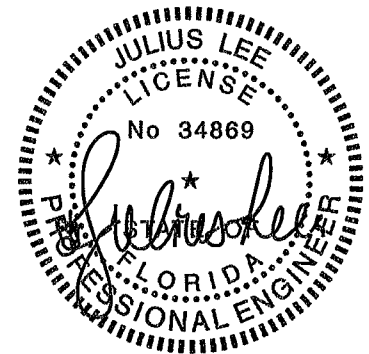
(size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=92 (LC 12)  
Max Uplift 2=-103 (LC 12) 3=-47 (LC 12)  
Max Grav 2=218 (LC 1), 3=85 (LC 1), 4=59 (LC 3)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/28, 2-3=-112/33  
BOT CHORD 2-4=-31/64

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TC DL=4 2psf, BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat II, Exp C, Enclosed,  
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0,  
Zone1 1-8-0 to 3-11-4 zone, cantilever left and right  
exposed, end vertical left and right exposed, C-C for  
members and forces & MWFRS for reactions shown,  
Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom  
chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members
- 5) Bearings are assumed to be Joint 2 SP No 2
- 6) Refer to girder(s) for truss to truss connections



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

January 9, 2026

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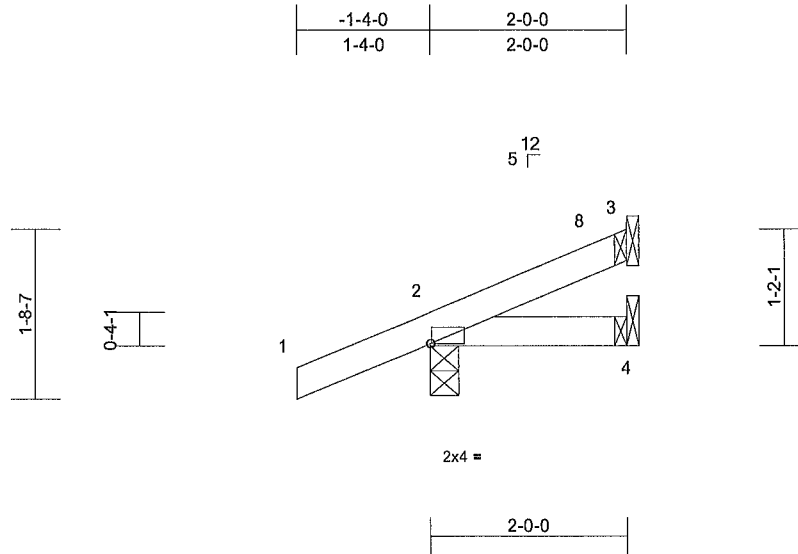
16023 Swingley Ridge Rd  
Chesterfield MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss J04	Truss Type Jack-Open	Qty 2	Ply 1	Mitch Brown Job Reference (optional)	T39754985
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Coastal Truss & Vinyl Siding Patterson, GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40:22  
ID:p5wFE34ZCiw\_tHjZq0DQTdxxQck-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:22.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 17	Vert(LL)	0 00	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 03	Vert(CT)	0 00	4-7	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight. 9 lb	FT = 20%

**LUMBER**

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 13 lb uplift at joint 3

LOAD CASE(S) Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS** (size)

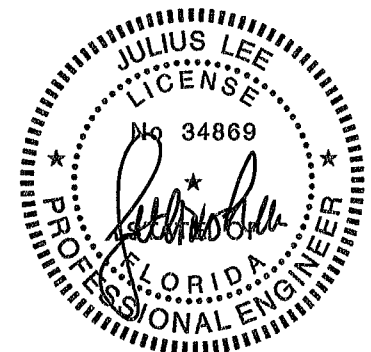
2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=62 (LC 12)  
Max Uplift 2=-102 (LC 12), 3=-13 (LC 12)  
Max Grav 2=164 (LC 1), 3=33 (LC 17), 4=26 (LC 3)

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

TOP CHORD 1-2=0/28, 2-3=-102/26  
BOT CHORD 2-4=-27/83

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCCL=4 2psf, BCDL=4.2psf, h=18ft, B=50ft; L=30ft, eave=4ft, Cat II, Exp C Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 1-11-14 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 5) Bearings are assumed to be , Joint 2 SP No 2
- 6) Refer to girder(s) for truss to truss connections



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

January 9, 2026

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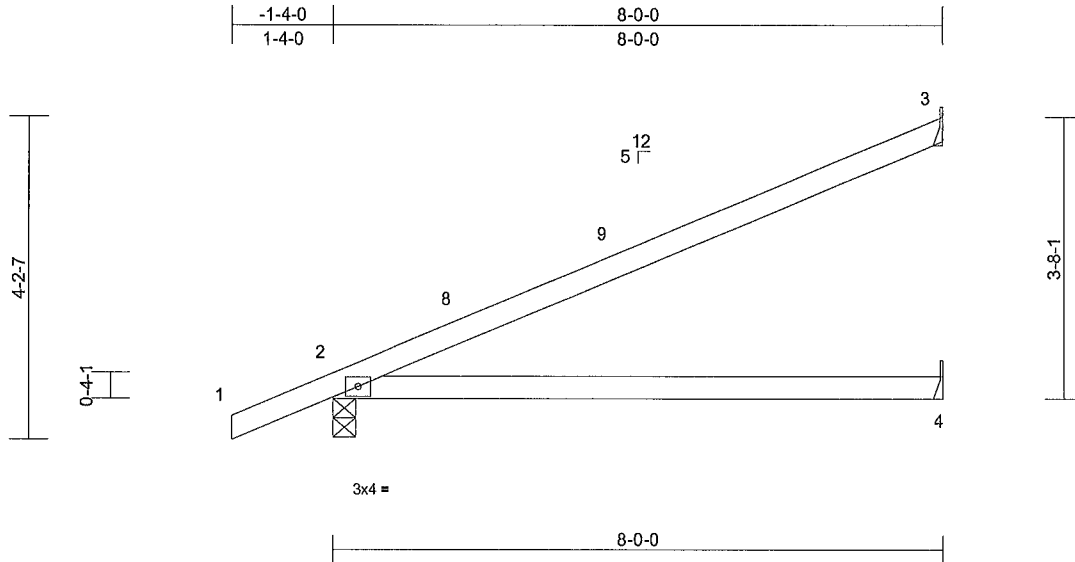
16023 Swingley Ridge Rd.  
Chesterfield MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss J02	Truss Type Jack-Partial	Qty 5	Ply 1	Mitch Brown Job Reference (optional)	T39754986
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print. 8 730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14:40:22  
ID p5wFE34ZClw\_tjZq0DQTdzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f

Page 1



Scale = 1:28.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 83	Vert(LL)	0 22	4-7	>429	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 60	Vert(CT)	-0 33	4-7	>290	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 01	2	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight. 27 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS** (size)

2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=153 (LC 12)  
Max Uplift 2=-124 (LC 12), 3=-109 (LC 12)  
Max Grav 2=348 (LC 1), 3=185 (LC 1), 4=123 (LC 3)

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

TOP CHORD 1-2=0/28, 2-3=-131/61  
BOT CHORD 2-4=-82/131

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft;  
B=50ft; L=30ft, eave=4ft, Cat II, Exp C, Enclosed,  
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0,  
Zone1 1-8-0 to 7-11-4 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  
3-08-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members
- 5) Bearings are assumed to be , Joint 2 SP No 2
- 6) Refer to girder(s) for truss to truss connections

- 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 109 lb uplift at joint  
3 and 124 lb uplift at joint 2
- LOAD CASE(S) Standard



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

January 9, 2026

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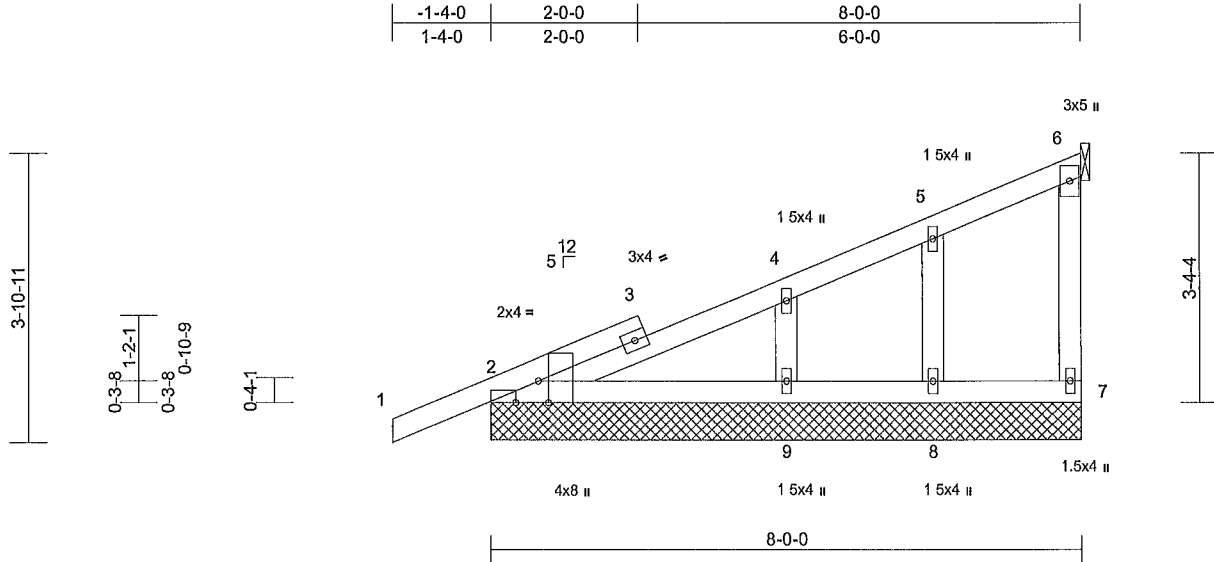
18023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434 1200 / MiTek-US.com

Job 260108-01KM	Truss J01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754987
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Coastal Truss & Vinyl Siding, Patterson GA - 31577

Run 8.73 E Nov 16 2023 Print: 8 730 E Nov 16 2023 MITek Industries, Inc Fri Jan 09 08 35.14  
ID p5wFE34ZCiw\_ljZq0DQDTzxQcK-guABUIUPG3YhKZgl6fANgeYLLBISun2cp8724VwzxJqk

Page: 1



Scale = 1.29.8

Plate Offsets (X, Y) [2 0-3-8,Edge], [2 0-3-13,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 20	Vert(LL)	0 01 9-12	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 10	Vert(CT)	-0 01 9-12	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 05	Horz(CT)	0 00 6	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP						Weight. 38 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 or 6-0-0 oc purlins, except end verticals  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS** All bearings 8-0-0 except 6= Mechanical  
(lb) - Max Horiz 2=149 (LC 11), 10=149 (LC 11)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
2, 6 8, 9, 10  
Max Grav All reactions 250 (lb) or less at joint  
(s) 2, 6 7 8, 9, 10

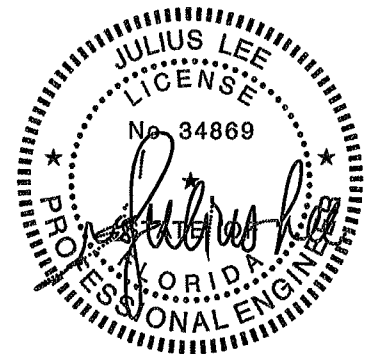
**FORCES** (lb) - Max Comp./Max Ten - All forces 250  
(lb) or less except when shown  
TOP CHORD 2-3=-304/147, 3-4=-300/181  
WEBS 4-9=-171/300

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TC DL=4 2psf, BCDL=4 2psf, h=18ft,  
B=50ft; L=30ft; eave=2ft; Cat. II, Exp C, Enclosed,  
MWFRS (directional) and C-C zone, cantilever left and  
right exposed, end vertical left and right exposed, C-C  
for members and forces & MWFRS for reactions shown,  
Lumber DOL=1 60 plate grip DOL=1 60
- 2) Truss designed for wind loads in the plane of the truss  
only For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1
- 3) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc
- 5) This truss has been designed for a 10 0 psf bottom  
chord live load nonconcurrent with any other live loads

- 6) \* This truss has been designed for a live load of 20 0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members
- 7) Refer to girder(s) for truss to truss connections
- 8) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 100 lb uplift at joint  
(s) 2, 8, 9, 8, 2
- 9) Gap between inside of top chord bearing and first  
diagonal or vertical web shall not exceed 0 500in

LOAD CASE(S) Standard



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

January 9, 2026

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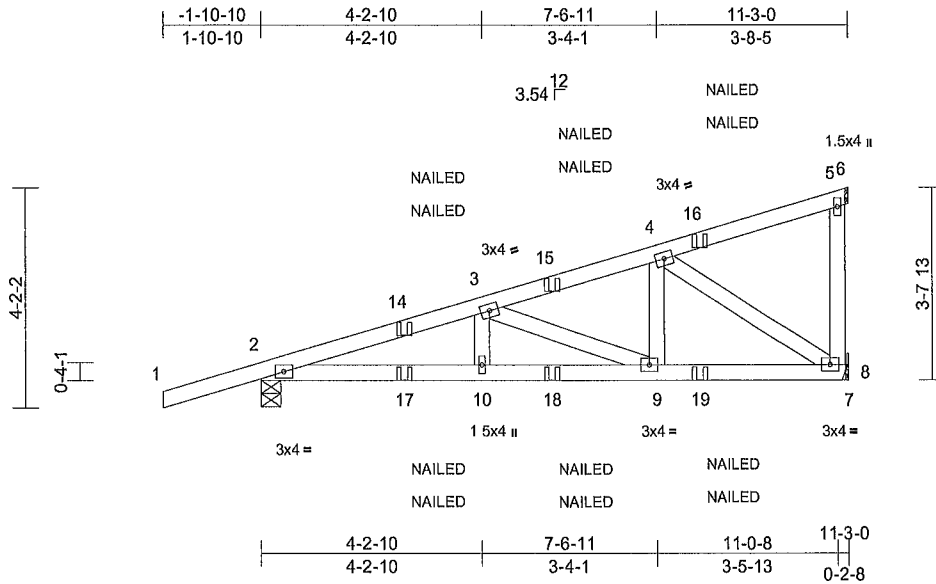
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754988
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40 18  
ID DgcOs56SVdlZkmR8V8m75GzxQcH-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC7f

Page: 1



Scale = 1/42 1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 23	Vert(LL)	-0 03	9-10	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 30	Vert(CT)	-0 05	9-10	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 22	Horz(CT)	0 01	8	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 57 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS**

(size) 2=0-4-9, 8= Mechanical  
Max Horiz 2=157 (LC 7)  
Max Uplift 2=-221 (LC 8), 8=-150 (LC 8)  
Max Grav 2=558 (LC 1), 8=547 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-1108/236, 3-4=-731/193,  
4-5=-126/75, 5-6=-1/0, 5-8=-104/55  
BOT CHORD 2-10=-274/1001, 9-10=-274/1001,  
8-9=-206/646, 7-8=0/0  
WEBS 3-10=0/123, 4-9=0/320 3-9=-381/86,  
4-8=-735/215

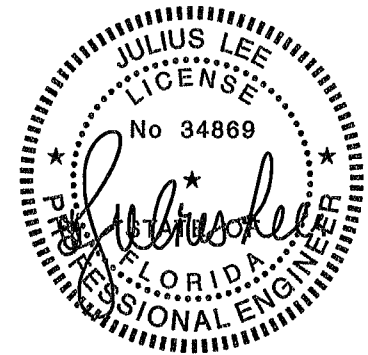
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 150 lb uplift at joint 8
- 8) "NAILED" indicates 3-10d (0 148"x3 ) or 2-12d (0 148"x3 25") toe-nails per NDS guidelines
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

**LOAD CASE(S) Standard**

- 1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25  
Uniform Loads (lb/ft)  
Vert 1-5=-54, 5-6=-14, 7-11=-14  
Concentrated Loads (lb)  
Vert 15=-18 (F=-9, B=-9), 16=-119 (F=-59, B=-59),  
17=-1 (F=0, B=0), 18=-33 (F=-17, B=-17), 19=-76 (F=-38, B=-38)

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TCCL=4 2psf; BCDL=4 2psf; h=18ft,  
B=50ft; L=30ft; eave=4ft; Cat II, Exp C, Enclosed,  
MWFRS (directional), cantilever left and right exposed,  
end vertical left and right exposed, Lumber DOL=1 60  
plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 5) Bearings are assumed to be Joint 2 SP No 2
- 6) Refer to girder(s) for truss to truss connections



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

January 9, 2026

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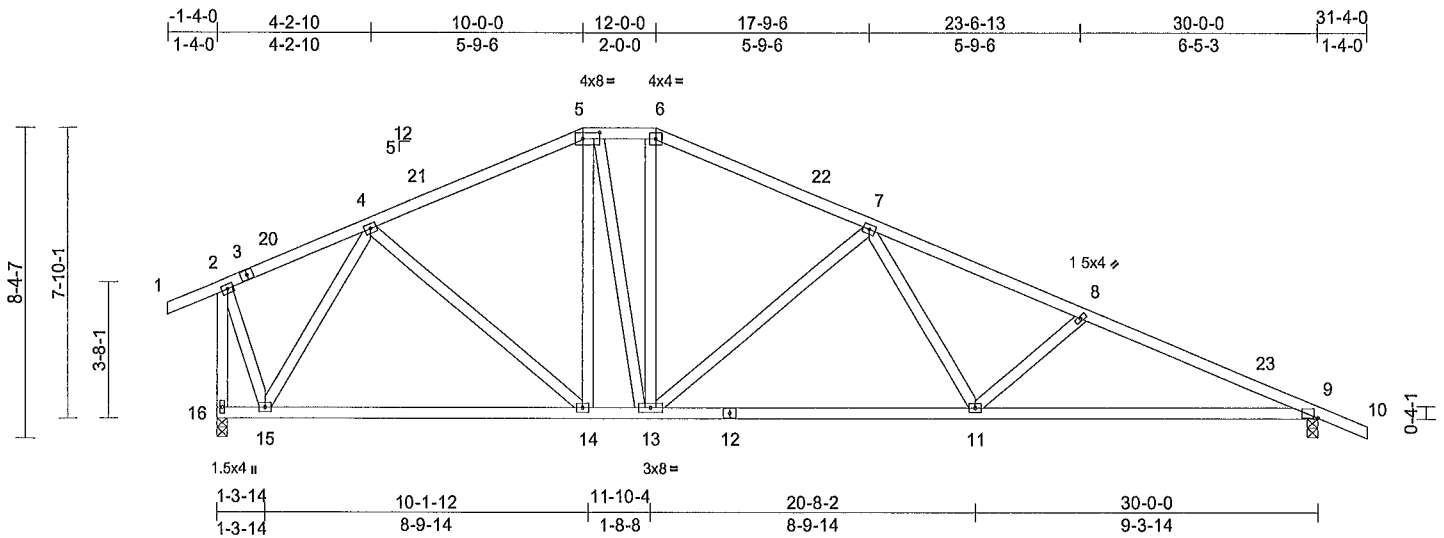
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H05	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754989
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MiTek Industries Inc. Thu Jan 08 14:40:20  
ID:OWE7c22hvxXQ0r\_9ufjr?zxQcN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDol7J4zJC7f

Page 1



Scale = 1/8" = 1'-0"

Plate Offsets (X, Y) [5 0-5-8,0-2-0], [9 0-1-2,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 40	Vert(LL)	-0 15	11-19	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 78	Vert(CT)	-0 30	11-19	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 69	Horz(CT)	0 06	9	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 184 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No 2  
BOT CHORD 2x4 SP No 2  
WEBS 2x4 SP No 2  
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-7 max ) 5-6  
BOT CHORD Structural wood sheathing directly applied or 7-7-15 oc bracing  
**REACTIONS** (size) 9=0-3-8, 16=0-3-8  
Max Horiz 16=-282 (LC 10)  
Max Uplift 9=-365 (LC 12), 16=-368 (LC 12)  
Max Grav 9=1087 (LC 1), 16=1095 (LC 1)  
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-354/220, 4-5=-1043/470, 5-6=-965/492, 6-7=-1109/496, 7-8=-1858/668, 8-9=-2117/743, 9-10=0/28, 2-16=-1140/395  
BOT CHORD 15-16=-149/204, 14-15=-160/717, 13-14=-146/900, 11-13=-381/1447, 9-11=-581/1921  
WEBS 4-15=-833/371 4-14=-44/308, 5-14=-114/69, 6-13=-84/236, 7-13=-642/310, 7-11=-79/474, 8-11=-351/215, 2-15=-222/897 5-13=-125/360

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TC DL=4 2psf; BCDL=4 2psf; h=18ft; B=50ft; L=30ft; eave=4ft, Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-0-0, Zone3 18-0-0 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 39-4-0 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
- All plates are 3x4 MT20 unless otherwise indicated
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- All bearings are assumed to be SP No 2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9
- 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

- 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:

January 9, 2026

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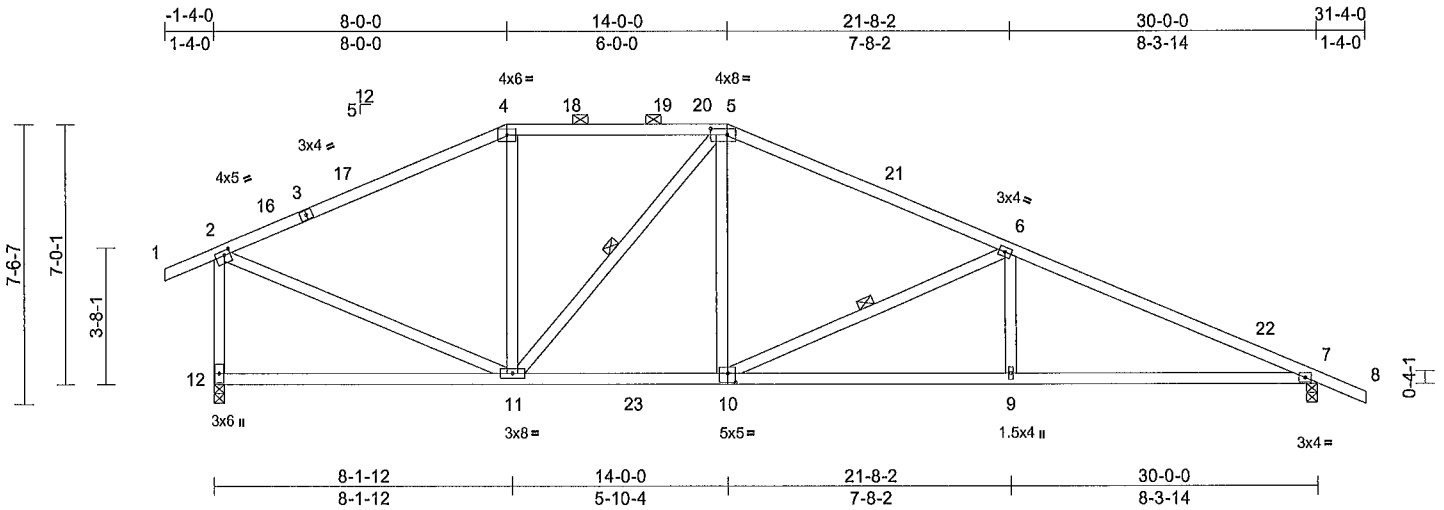
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314 434 1200 / MiTek-US.com

Job 260108-01KM	Truss H04	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754990
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14 40 20  
ID:OWE7c22hvnXQ0r\_9ufjr?zxQcN RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCDol7J4zJC?f

Page: 1



Scale = 1/8" = 1'-0"

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 77	Vert(LL)	-0 20	9-15	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 85	Vert(CT)	-0 33	9-15	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 40	Horz(CT)	0 06	7	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 163 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-14 max) 4-5

BOT CHORD Structural wood sheathing directly applied or 7-8-2 oc bracing

WEBS 1 Row at midpt 6-10, 5-11

REACTIONS (size) 7=0-3-8, 12=0-3-8

Max Horiz 12= 243 (LC 10)

Max Uplift 7=365 (LC 12), 12=368 (LC 12)

Max Grav 7=1227 (LC 18), 12=1185 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-4=-1163/456, 4-5=-1012/477, 5-6=-1477/545, 6-7=-2335/718, 7-8=0/28, 2-12=-1077/497

BOT CHORD 11-12=-123/225, 9-11=-555/2108, 7-9=-555/2108

WEBS 4-11=-84/196 5-10=-89/593, 6-10=-937/345, 6-9=0/299, 2-11=-307/1073, 5-11=-471/157

**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=4 2psf; BCDL=4 2psf; h=18ft; B=50ft, L=30ft, eave=4ft, Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 22-0-0, Zone2 22-0-0 to 26-2-15, Zone1 26-2-15 to 39-4-0 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 = 7 0psf
- 7) All bearings are assumed to be SP No 2
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 12 and 365 lb uplift at joint 7
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



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

January 9, 2026

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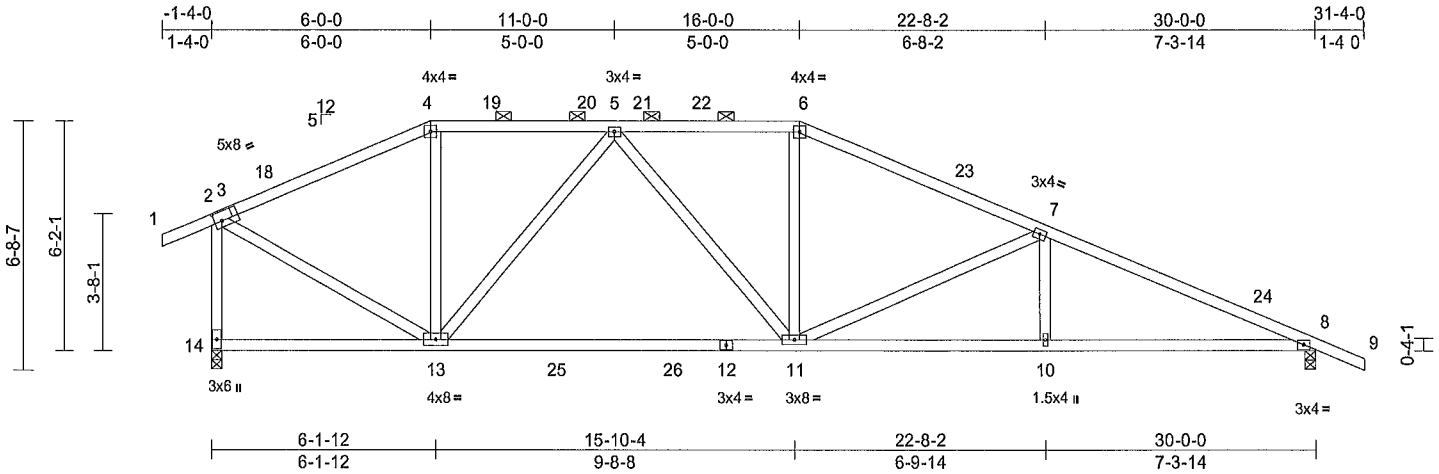
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H03	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754991
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MITek Industries, Inc Thu Jan 08 14:40:20  
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Page: 1



Scale = 1.59.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	Vert(LL)	-0 33	11-13	>999	240	MIT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	Vert(CT)	-0 51	11-13	>708	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	Horz(CT)	0 06	8	n/a	n/a		
BCDL	7 0	Code	FBC2023/TP12014	Matrix-MS						Weight 164 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-13 max) 4-6  
BOT CHORD Structural wood sheathing directly applied or 7-7-5 oc bracing

**REACTIONS** (size) 8=0-3-8, 14=0-3-8  
Max Horiz 14=-225 (LC 10)  
Max Uplift 8=-365 (LC 12), 14=-368 (LC 12)  
Max Grav 8=1229 (LC 18), 14=1193 (LC 19)

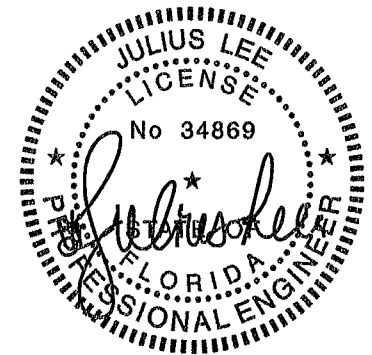
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-1098/417, 4-5=-975/428  
5-6=-1513/571, 6-7=-1687/577,  
7-8=-2394/734, 8-9=0/28, 2-14=-1142/482  
BOT CHORD 13-14=-112/183, 11-13=-303/1349,  
10-11=-581/2169, 8-10=-581/2169  
WEBS 4-13=0/234, 5-13=-600/254, 5-11=-36/291,  
6-11=-41/383, 7-11=-775/313, 7-10=0/229,  
2-13=-313/1114

- 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 = 7 0psf
- All bearings are assumed to be SP No 2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 8
- 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

**NOTES**

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust)  
Vasd=101mph, TC DL=4 2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft, eave=4ft, Cat II, Exp C, Enclosed,  
MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0,  
Zone1 9-8-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1  
18-2-15 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1  
28-2-15 to 39-4-0 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:

January 9, 2026

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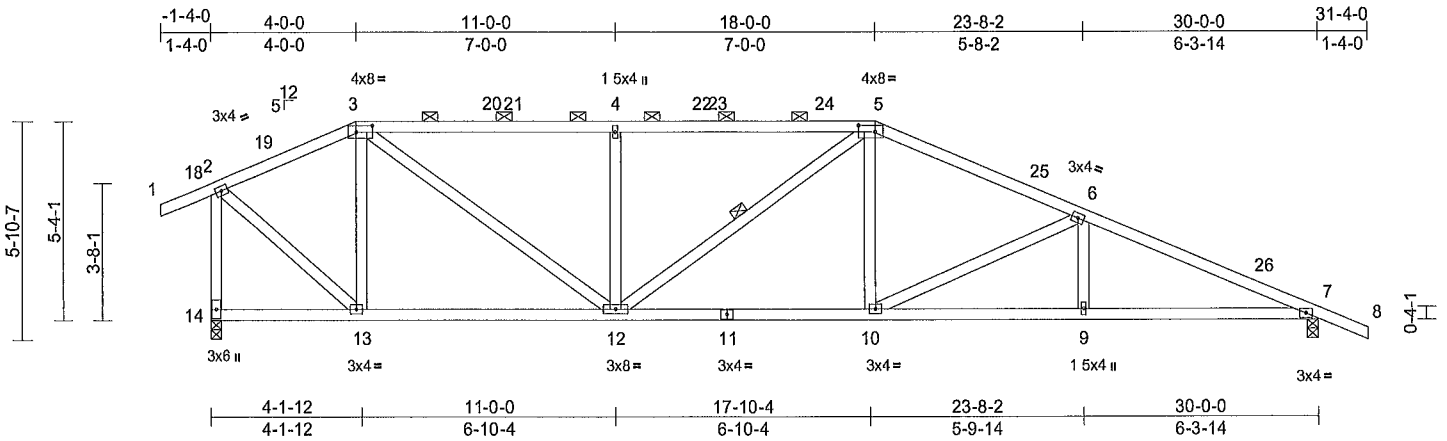
16023 Swingley Ridge Rd.  
Chesterfield MO 63017  
314 434 1200 / MITek-US.com

Job 260108-01KM	Truss H02	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754992
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc Thu Jan 08 14.40-20  
ID=wKqkOI138TPZOhPobA8UJnzxQcO-RfC?PsB70Hq3NSgPqL8w3ulTXbGKwRCDoI7J4zJC7f

Page: 1



Scale = 1/64.5

Plate Offsets (X, Y) [3 0-5-4 0-2-0], [5 0-5-4, 0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 59	Vert(LL)	-0 11	10	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 58	Vert(CT)	-0 20	10-12	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 43	Horz(CT)	0 06	7	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 166 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max) 3-5

BOT CHORD Structural wood sheathing directly applied or 7-6-12 oc bracing

WEBS 1 Row at midpt 5-12

**REACTIONS**

(size) 7=0-3-8, 14=0-3-8  
Max Horiz 14=207 (LC 10)  
Max Uplift 7=365 (LC 12), 14=368 (LC 12)  
Max Grav 7=1087 (LC 1), 14=1095 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-3=803/366, 3-4=1444/616, 4-5=1444/616, 5-6=1639/623, 6-7=2165/741, 7-8=0/28, 2-14=-1076/476  
BOT CHORD 13-14=-105/173, 12-13=-127/690, 10-12=-376/1462, 9-10=-600/1951, 7-9=-600/1951  
WEBS 3-13=-517/265 3-12=-346/947, 4-12=-438/250, 5-12=-72/148, 5-10=-55/375, 6-10=-549/258, 6-9=0/206, 2-13=-325/923

**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=4 2psf; BCDL=4 2psf; h=18ft, B=50ft, L=30ft; eave=4ft, Cat. II Exp C, Enclosed, MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 26-0-0, Zone2 26-0-0 to 30-2-15, Zone1 30-2-15 to 39-4-0 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 7) All bearings are assumed to be SP No 2
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 7
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



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

January 9, 2026

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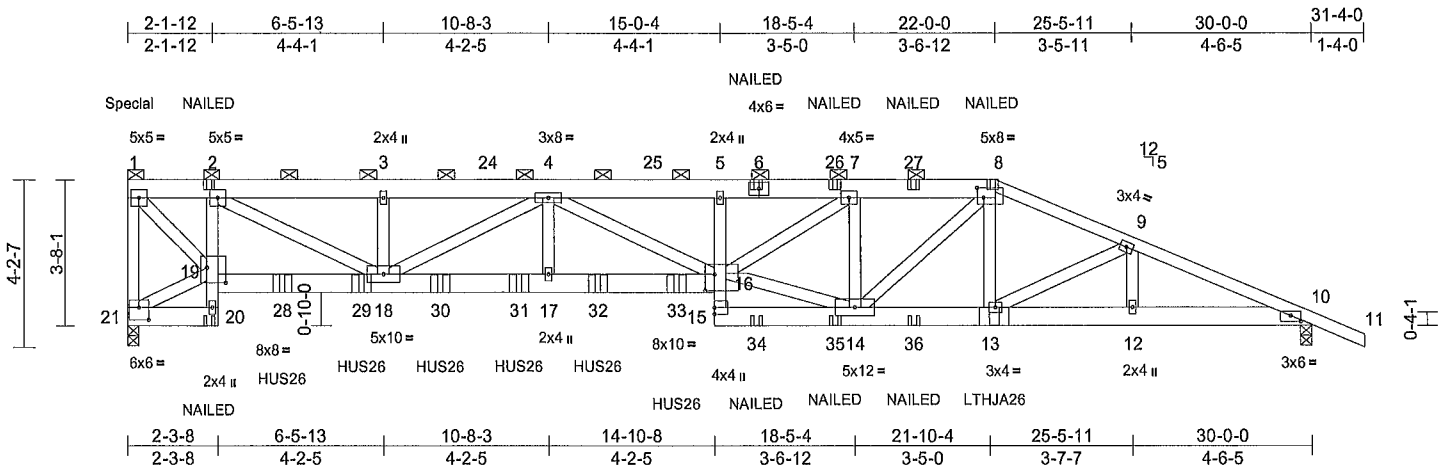
16023 Swingley Ridge Rd  
Chesterfield MO 63017  
314.434.1200 / Mitek-US.com

Job 260108-01KM	Truss H06	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T39754993
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40:20  
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Page: 1



Scale = 1/57

Plate Offsets (X, Y) [8 0-2-0 0-3-0], [10 0-3-0,0-1-11] [16 0-2-12,0-5-0], [19 0-6-0,0-4-8], [21 0-3-0,0-3-12]

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 36	Vert(LL)	-0 33	16-17	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 89	Vert(CT)	-0 56	16-17	>637	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 76	Horz(CT)	0 18	10	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS								

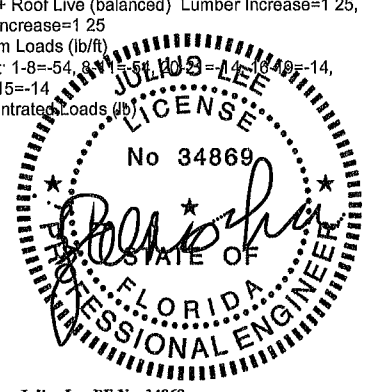
Weight: 427 lb FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP No 2 \*Except\* 8-11 2x4 SP No 2  
BOT CHORD 2x6 SP No 2 \*Except\* 20-2,5-15 2x4 SP No 2, 19-16 2x6 SP No 1  
WEBS 2x4 SP No 2  
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-12 max) 1-8  
BOT CHORD Structural wood sheathing directly applied or 9-7-12 oc bracing  
**REACTIONS** (size) 10-0-3-8, 21-0-3-8  
Max Horiz 21=-162 (LC 6)  
Max Uplift 10=-880 (LC 8), 21=-1104 (LC 4)  
Max Grav 10=2836 (LC 1), 21=3704 (LC 1)  
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-21=-3667/1054, 1-2=-3450/1019, 2-3=-8292/2457, 3-4=-8292/2457, 4-5=-11209/3321, 5-7=-11024/3270, 7-8=-7644/2299, 8-9=-6604/1970, 9-10=-6801/1992, 10-11=0/28  
BOT CHORD 20-21=-6/35, 19-20=0/110, 2-19=-2872/956 18-19=-931/3674, 17-18=-3128/11067 16-17=-3128/11067, 15-16=-9/205, 5-16=-227/147, 14-15=-302/1077 13-14=-1695/6115 12-13=-1761/6253 10-12=-1761/6253  
WEBS 19-21=-47/153, 1-19=-1388/4940, 2-18=-1578/5306, 3-18=-171/152, 4-18=-3190/945, 4-17=-317/1251, 4-16=-67/189, 7-14=-3014/1000, 8-14=-612/2129, 8-13=-110/888, 9-13=-200/192, 9-12=-26/89, 14-16=-1897/6754, 7-16=-1187/4125

- 2-ply truss to be connected together with 10d (0 131"x3") nails as follows  
Top chords connected as follows 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc  
Bottom chords connected as follows 2x6 - 2 rows staggered at 0-9-0 oc, 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 any 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=4 2psf; BCDL=4 2psf; h=18ft; B=50ft, L=30ft; eave=4ft, Cat. II, Exp C, 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 0 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No 2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1100 lb uplift at joint 21 and 880 lb uplift at joint 10
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max starting at 3-11-4 from the left end to 13-11-4 to connect truss(es) to back face of bottom chord
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 21-11-10 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) 43 lb down and 31 lb up at 0-1-12 on top chord The design/selection of such connection device(s) is the responsibility of others

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25  
Uniform Loads (lb/ft)  
Vert 1-8=-54, 8-9=-54, 10-11=-14, 11-12=-14, 10-15=-14  
Concentrated Loads (lb)



Julius Lee PE No. 34869  
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January 9, 2026

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39754993
260108-01KM	H06	Roof Special Girder	1	2	Job Reference (optional)	

Coastal Truss & Vinyl Siding Patterson GA - 31577,

Run 8 73 S Aug 13 2025 Print. 8 730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:40 20  
 ID ZS06G5qSW1UHd4EVrsOvauzxQ3n-RFC?PsB70Hq3NSgPqnl6w3ulTXbGKWrcDol7J4zJC?f

Page. 2

Vert 1=-19 (B), 6=-131 (B), 8=-131 (B), 20=-64 (B),  
 2=-131 (B), 13=-592 (B), 26=-131 (B), 27=-131 (B),  
 28=-485 (B), 29=-485 (B), 30=-485 (B), 31=-485 (B),  
 32=-485 (B), 33=-485 (B), 34=-64 (B), 35=-64 (B),  
 36=-64 (B)

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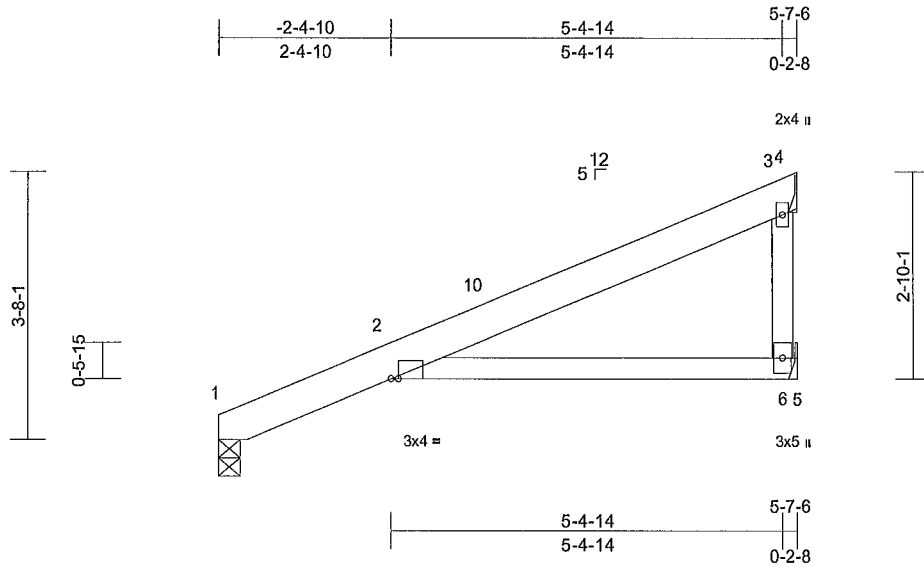
18023 Swingley Ridge Rd  
 Chesterfield, MO 63017  
 314.434.1200 / [MiTek-US.com](http://MiTek-US.com)

Job 260108-01KM	Truss J03	Truss Type Jack-Open	Qty 6	Ply 1	Mitch Brown Job Reference (optional)	T39754994
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc Thu Jan 08 14:40:22  
ID:4Qu1mcbLLl87uBWZpHfgLnzxQD7 RIC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDol7J4zJC7f

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y) [2 0-1-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	ln	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 29	Vert(LL)	0 04	6-9	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 38	Vert(CT)	-0 05	6-9	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 07	Horz(CT)	0 00	1	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight 32 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-9-11 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

**REACTIONS** (size) 1=0-3-8, 4= Mechanical, 6= Mechanical  
Max Horiz 4=711 (LC 1), 6=711 (LC 1)  
Max Uplift 1=-12 (LC 12), 6=-136 (LC 12)  
Max Grav 1=44 (LC 1), 6=499 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-13/42, 2-3=-602/829 3-4=-427/656  
BOT CHORD 2-6=-717/698, 5-6=0/0  
WEBS 3-6=-458/419

- 6) Refer to girder(s) for truss to truss connections
  - 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 136 lb uplift at joint 6
- LOAD CASE(S)** Standard

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=4 2psf; h=18ft; B=50ft, L=30ft; eave=4ft, Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-0-9 to 1-10-11, Zone1 1-10-11 to 6-8-15 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 5) Bearings are assumed to be , Joint 1 SP No 2



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

January 9, 2026

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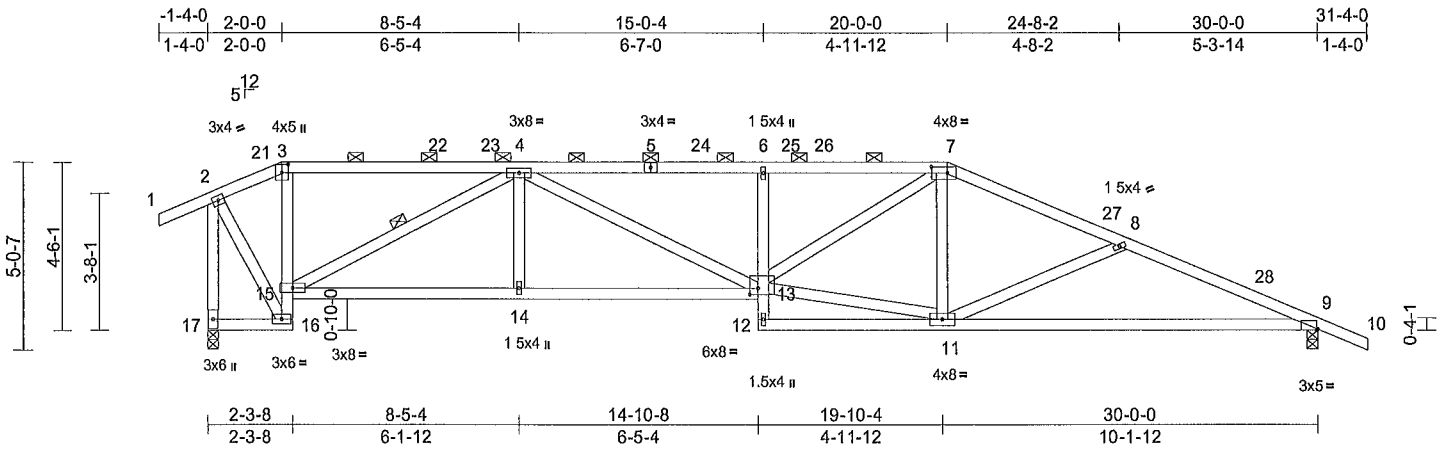
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss H01	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754995
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Coastal Truss &amp; Vinyl Siding, Patterson GA - 31577

Run 8 73 E Nov 16 2023 Print. 8 730 E Nov 16 2023 MiTek Industries, Inc. Fri Jan 09 08:35:42  
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Page: 1



Scale = 1/8" = 1'-0"

Plate Offsets (X, Y) [3 0-2-11,0-2-0], [7 0-5-4,0-2-0], [9 0-0-6,Edge], [13 0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 47	Vert(LL) -0 22	11-20	>999	240	MIT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 77	Vert(CT) -0 42	11-20	>856	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 36	Horz(CT) 0 15	9	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight. 171 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-15 max) 3-7

BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

WEBS 1 Row at midpt 4-15

**REACTIONS** (lb/size) 9=1087/0-3-8, 17=1095/0-3-8  
Max Horiz 17=-188 (LC 10)  
Max Uplift 9=-365 (LC 12), 17=-368 (LC 12)

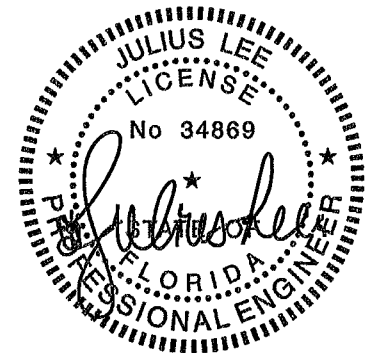
**FORCES** (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown

TOP CHORD  
2-21=-532/274 3-21=-498/279,  
3-22=-556/280 2-23=-556/280,  
4-23=-555/280 4-5=-2273/851,  
5-24=-2273/851, 6-24=-2273/851,  
6-25=-2239/843, 25-26=-2239/843,  
7-26=-2239/843, 7-27=-1764/853,  
8-27=-1819/638, 8-28=-2141/782,  
9-28=-2165/769, 2-17=-1148/460

BOT CHORD  
15-16=-709/292 14-15=-498/1864,  
13-14=-498/1864, 6-13=-327/191,  
9-11=-646/1976

WEBS  
4-15=-1486/516 4-14=0/259, 4-13=-181/462,  
11-13=-378/1516, 8-11=-383/246,  
2-16=-309/914, 7-13=-254/782

- 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft, B=50ft, L=30ft; eave=4ft, Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C 32-2-15 to 39-4-0 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
  - 4) Provide adequate drainage to prevent water ponding
  - 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
  - 6) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 17 and 365 lb uplift at joint 9
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard



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

January 9, 2026

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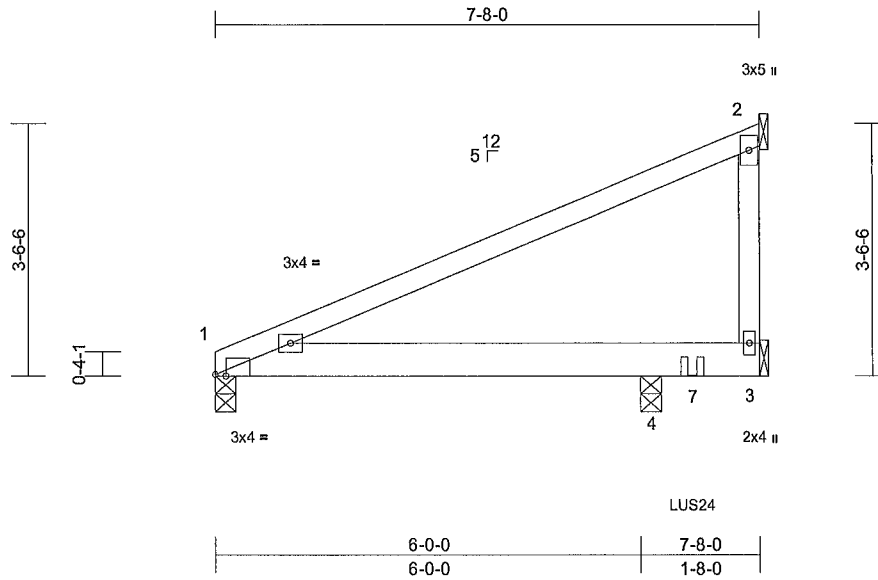
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss J08	Truss Type Jack-Open Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39754996
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Coastal Truss &amp; Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40:22  
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Page 1



Scale = 1/31

Plate Offsets (X Y) [1 0-1-13,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 03	4-6	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 40	Vert(CT)	-0 04	4-6	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight 35 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing

**REACTIONS** (size) 1=0-3-8, 2= Mechanical, 3= Mechanical, 4=0-3-8  
Max Horiz 1=115 (LC 8)  
Max Uplift 1=37 (LC 21), 2=93 (LC 21), 3=80 (LC 17), 4=-173 (LC 8)  
Max Grav 1=193 (LC 1), 2=145 (LC 1), 3=142 (LC 21), 4=595 (LC 1)

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

TOP CHORD 1-2=-165/97  
BOT CHORD 1-4=-16/9, 3-4=0/0  
WEBS 2-3=0/0

**NOTES**

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=4 2psf, h=18ft, B=50ft; L=30ft; eave=4ft; Cat II, Exp C, Enclosed, MWFRS (directional), cantilever left and right exposed, end vertical left and right exposed, Lumber DOL=1 60 plate grip DOL=1 60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members

5) Bearings are assumed to be , Joint 1 SP No 2 , Joint 4 SP No 2

6) Refer to girder(s) for truss to truss connections

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 93 lb uplift at joint 2, 80 lb uplift at joint 3 and 173 lb uplift at joint 4

8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0 500in

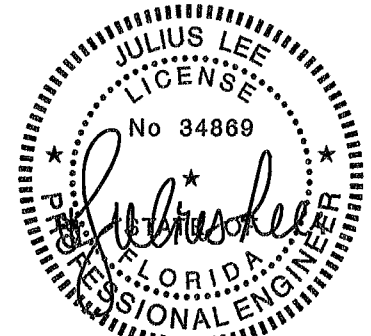
9) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 6-8-12 from the left end to connect truss(es) to front face of bottom chord

10) Fill all nail holes where hanger is in contact with lumber

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25  
Uniform Loads (lb/ft)  
Vert: 1-2=-54, 1-3=-14  
Concentrated Loads (lb)  
Vert 7=-437 (F)



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

January 9,2026

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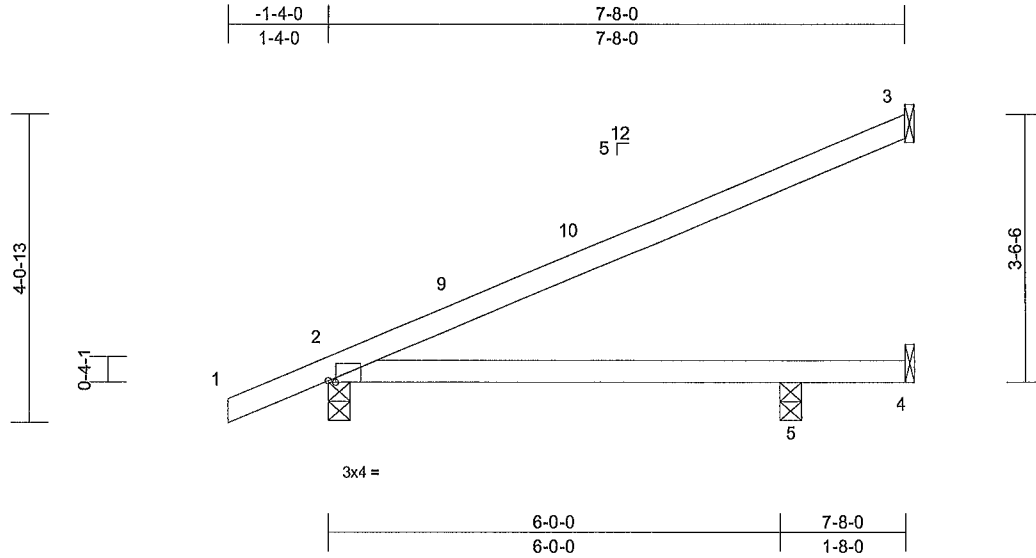
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
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Job 260108-01KM	Truss J07	Truss Type Jack-Open	Qty 3	Ply 1	Mitch Brown Job Reference (optional)	T39754997
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Coastal Truss & amp, Vinyl Siding Patterson GA - 31577,

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14 40 22  
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Page: 1



Scale = 1:29.2

Plate Offsets (X, Y) [2 0-1-2,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 72	Vert(LL)	0 10	5-8	>729	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 60	Vert(CT)	-0 12	5-8	>612	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MP							Weight 26 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical, 5=0-3-8  
Max Horiz 2=148 (LC 12)  
Max Uplift 2=-115 (LC 12), 3=-102 (LC 12), 4=-98 (LC 1), 5=-34 (LC 12)  
Max Grav 2=293 (LC 1), 3=165 (LC 1), 4=35 (LC 12), 5=250 (LC 3)

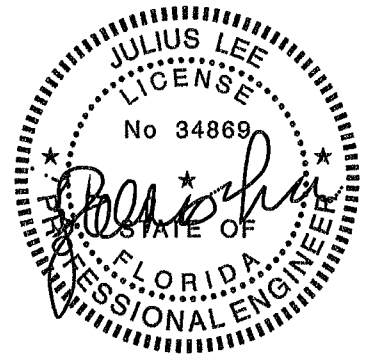
**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-146/55  
BOT CHORD 2-5=-69/109, 4-5=0/0

**NOTES**

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=4 2psf; h=18ft, B=50ft, L=30ft, eave=4ft; Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-7-4 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members

- Bearings are assumed to be , Joint 2 SP No 2 , Joint 5 SP No 2
  - Refer to girder(s) for truss to truss connections
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3, 115 lb uplift at joint 2, 98 lb uplift at joint 4 and 34 lb uplift at joint 5
- LOAD CASE(S)** Standard



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

January 9, 2026

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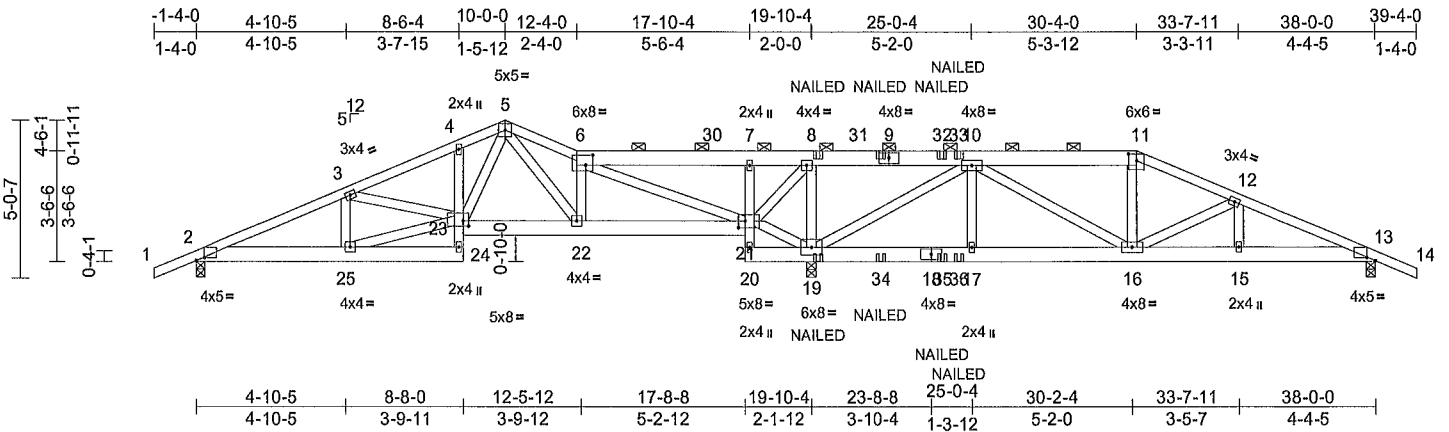
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss T05	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T39754998
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Coastal Truss & amp, Vinyl Siding Patterson GA 31577,

Run 8 73 S Aug 13 2025 Print. 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40:23  
ID:dFHWU79KnyG8bDAJAHKqluzxQGe-RfC?PsB70Hq3NSgPqnlL8w3uiTXhGKWRCoDl7J4zJC7f

Page 1



Scale = 1/70

Plate Offsets (X, Y) [2 0-3-5 0-1-2], [6 0-2-12,0-3-12], [11 0-3-0,0-2-9], [13 0-3-5,0-1-2], [21 0-2-8,0-2-8], [23 0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 19	Vert(LL)	-0 02	22-23	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 14	Vert(CT)	-0 03	22-23	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 19	Horz(CT)	0 01	13	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 504 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No 2 \*Except\* 9-11,9-6 2x6 SP No 2  
BOT CHORD 2x6 SP No 2 \*Except\* 24-4 2x4 SP No 2  
WEBS 2x4 SP No 2

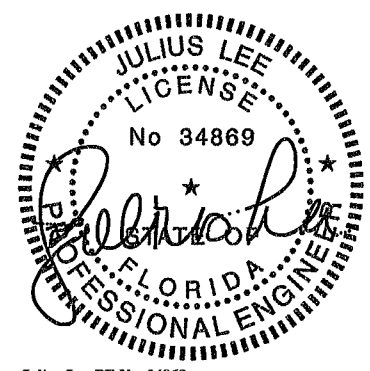
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max ) 6-11  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

**REACTIONS** (size) 2=0-3-8, 13=0-3-8, 19=0-3-8  
Max Horiz 2=-113 (LC 6)  
Max Uplift 2=-243 (LC 32), 13=-273 (LC 8)  
19=-978 (LC 8)  
Max Grav 2=594 (LC 23), 13=590 (LC 20)  
19=1874 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/28 2-3=-999/342, 3-4=-819/319,  
4-5=-794/354, 5-6=-608/342, 6-7=-249/708,  
7-8=-242/690 8-10=-254/996,  
10-11=-636/362, 11-12=-715/370,  
12-13=-1003/428, 13-14=0/28  
BOT CHORD 2-25=-235/891, 24-25=-29/112, 23-24=0/60,  
4-23=-137/88, 22-23=-87/530,  
21-22=-137/542, 19-20=-20/17,  
17-19=-365/450, 16-17=-365/450,  
15-16=-319/905, 13-15=-319/905  
WEBS 3-25=-99/81, 23-25=-211/799, 3-23=-222/113,  
5-23=-153/454, 5-22=-131/89,  
12-16=-320/123, 12-15=0/128, 6-22=-24/181,  
6-21=-1276/374, 8-19=-747/277,  
10-17=-110/200, 11-16=-74/140,  
20-21=-48/56, 7-21=-234/195,  
10-19=-1475/775, 10-16=-317/526,  
19-21=-1051/411, 8-21=-267/552

- 2-ply truss to be connected together with 10d (0 131"x3") nails as follows  
Top chords connected as follows 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc  
Bottom chords connected as follows 2x6 - 2 rows staggered at 0-9-0 oc, 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, TCCL=4 2psf, BCDL=4 2psf; h=18ft, B=50ft, L=38ft; eave=5ft, Cat II, Exp C, Enclosed, MWFRS (directional), cantilever left and right exposed , end vertical left and right exposed, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- All bearings are assumed to be SP No 2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 978 lb uplift at joint 19 and 273 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

12) "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0 148"x3 25") toe-nails per NDS guidelines  
**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25  
Uniform Loads (lb/ft)  
Vert 1-5=-54, 5-6=-54, 6-11=-54, 11-14=-54, 2-24=-14, 21-23=-14, 13-20=-14  
Concentrated Loads (lb)  
Vert. 9=-111 (F), 19=55 (F), 8=-111 (F), 32=-111 (F)  
33=-91 (F), 34=55 (F), 35=55 (F), 36=-27 (F)



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MITek Inc. DBA MITek USA FL Cert 6634  
16023 Swingley Ridge Rd Chesterfield, MO 63017  
Date:

**NOTES**

January 9,2026

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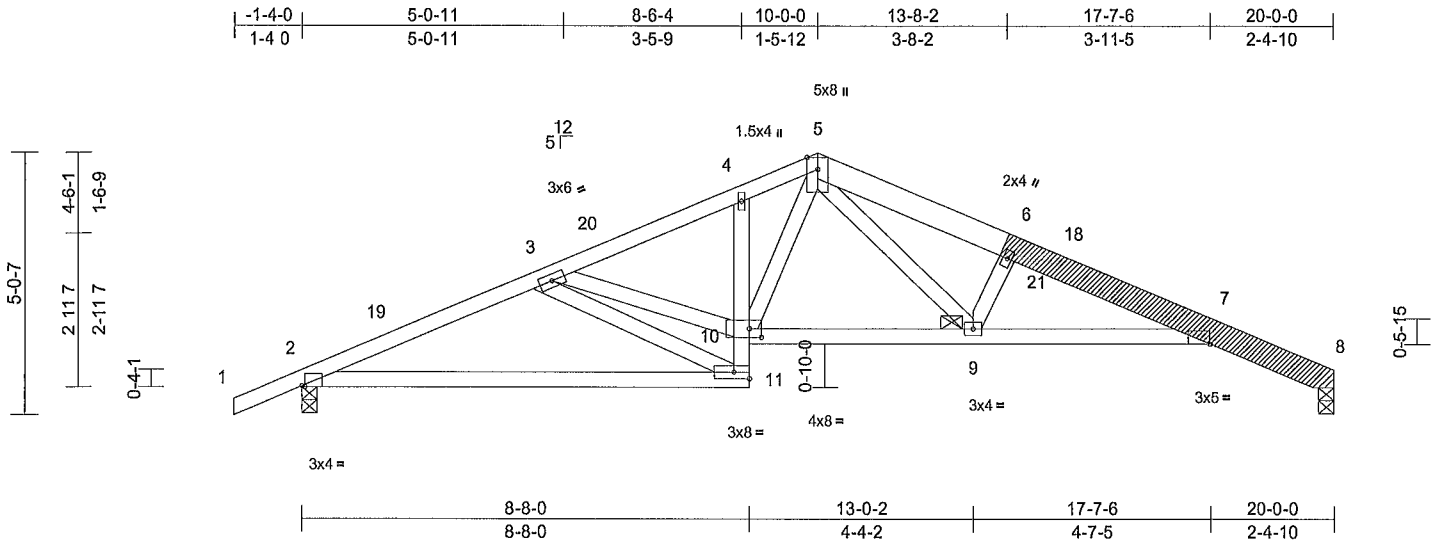


Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39754999
260108-01KM	T04	Roof Special	4	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson GA 31577,

Run 8 73 S Dec 14 2023 Print: 8 730 S Dec 14 2023 MiTek Industries Inc. Fri Jan 09 09:01:56  
ID HIUdRP5Cz72rUSHIOkff0rxzGcJ-NJB2Le8YQOyZHZ0k\_fWt?mx61wCo9lYj100SaSz8uf

Page 1



Scale = 1:42.5

Plate Offsets (X, Y) [2 0-0-10,Edge], [7 0-0-3,Edge], [10 0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 58	Vert(LL)	-0 15	9-17	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 70	Vert(CT)	-0 28	11-14	>858	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 37	Horz(CT)	0 14	8	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 116 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No 2 \*Except\* 5-8 2x6 SP No 2  
BOT CHORD 2x4 SP No 2  
WEBS 2x4 SP No 2  
LBR SCAB 6-8 SP No 2 one side

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 6-10-9 oc bracing

**JOINTS**  
1 Brace at Jt(s) 9

**REACTIONS** (lb/size) 2=750/0-3-8, 8=675/0-3-8  
Max Horiz 2=103 (LC 11)  
Max Uplift 2=-265 (LC 12), 8=-195 (LC 12)

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

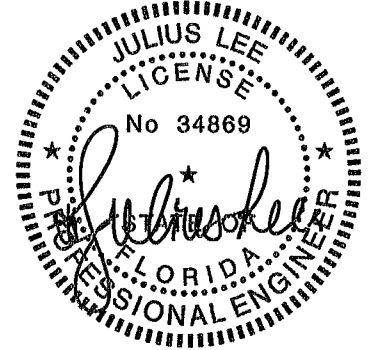
**TOP CHORD**  
2-19=-1334/633, 3-19=-1312/645,  
3-20=-1290/604, 4-20=-1243/613,  
4-5=-1297/683, 5-6=-1718/827,  
6-21=-1740/822 18-21=-1750/819,  
7-18=-1796/812, 7-8=-254/144

**BOT CHORD**  
2-11=-533/1211, 10-11=-219/564,  
9-10=-327/984, 7-9=-707/1742

**WEBS**  
3-11=-1105/543, 3-10=-395/960,  
5-10=-264/491, 5-9=-382/810, 6-9=-532/331

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=4 2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat II, Exp C, Enclosed MWFRS (directional) and C-C 14-2-15 to 19-10-4 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
  - \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 8 and 265 lb uplift at joint 2
- LOAD CASE(S) Standard

- NOTES**
- Attached 7-0-0 scab 6 to 8 front face(s) 2x6 SP No 2 with 2 row(s) of 10d (0 131"x3") nails spaced 9" o c except starting at 2-6-14 from end at joint 6, nail 2 row(s) at 7" o c for 2-9-2
  - Unbalanced roof live loads have been considered for this design



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Date.

January 9, 2026

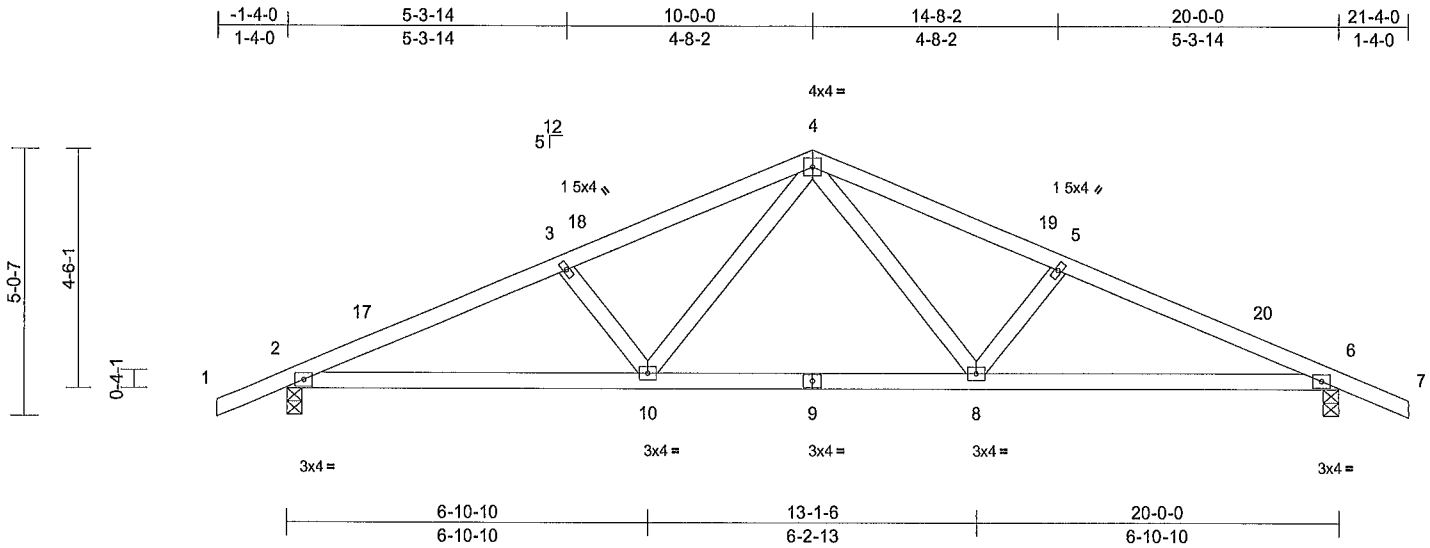
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev 1/2/2023 BEFORE USE</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd  Chesterfield, MO 63017  314 434.1200 / MiTek-US.com</p>
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Job 260108-01KM	Truss T03	Truss Type Common	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39755000
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Coastal Truss & Vinyl Siding, Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print. 0 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40 22  
ID HIUdRP5Cz72rUSHIOkkl0rxzQcJ-RfC?PsB70Hq3NSgPqNL8w3uITXbGKWRCDol7J4zJC7f

Page 1



Scale = 1:41 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 25	Vert(LL)	-0 06	8-16	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 41	Vert(CT)	-0 11	8-16	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 09	Horz(CT)	0 03	6	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 89 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-11-1 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 8-7-5 oc bracing

**REACTIONS**

(size) 2=0-3-8, 6=0-3-8  
Max Horiz 2=-104 (LC 10)  
Max Uplift 2=-264 (LC 12), 6=-264 (LC 12)  
Max Grav 2=752 (LC 1), 6=752 (LC 1)

**FORCES**

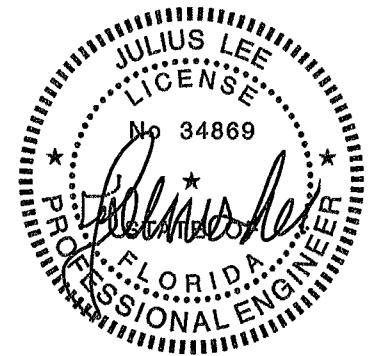
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28 2-3=-1339/586, 3-4=-1186/546, 4-5=-1186/546, 5-6=-1339/586, 6-7=0/28  
BOT CHORD 2-10=-447/1209, 8-10=-233/806, 6-8=-468/1209  
WEBS 3-10=-285/228, 4-10=-165/409, 4-8=-165/409, 5-8=-285/228

**NOTES**

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=4 2psf; h=18ft, B=50ft, L=30ft, eave=4ft; Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0 Zone1 1-8-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-4-0 zone, cantilever left and right exposed end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads

- \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 264 lb uplift at joint 6
- LOAD CASE(S) Standard



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

January 9, 2026

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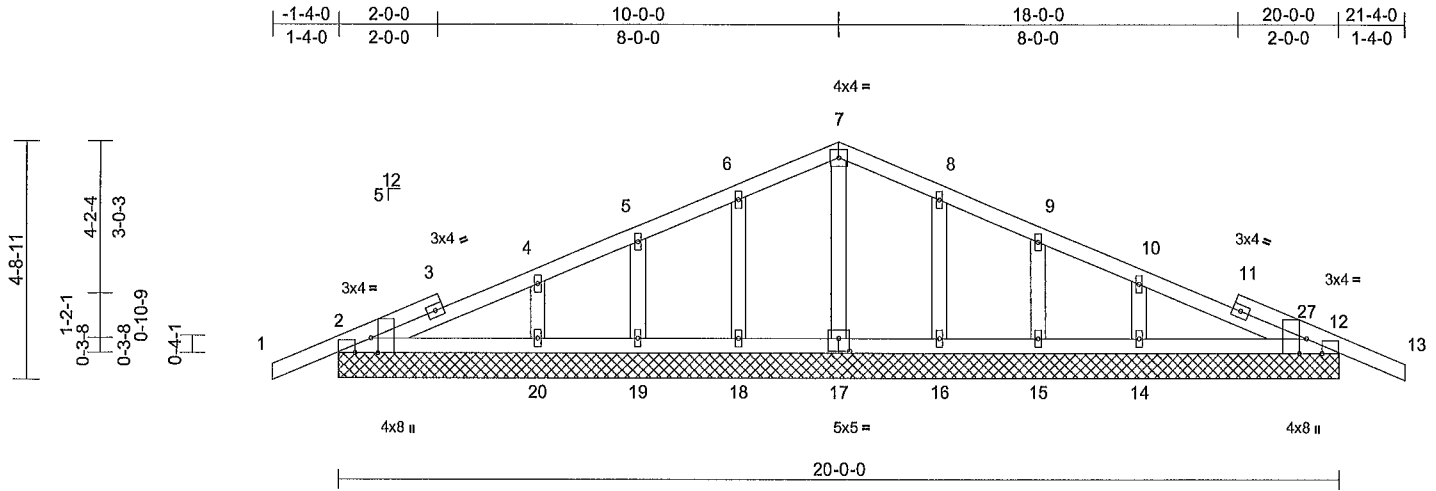
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Chesterfield MO 63017  
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755001
260108-01KMK	GE02	Common Supported Gable	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding Patterson GA - 31577,

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc. Thu Jan 08 14:40 19  
ID=wKgkOI138TPZOHpobA8UJnzQcO-RfC?PsB70Hq3NSgPqnl8w3uITXbGKWrCDol7J4zJC?F

Page: 1



Scale = 1/43.9

Plate Offsets (X, Y) [2 0-3-8,Edge], [2 0-3-13,Edge], [12 0-3-8,Edge] [12 0-3-13,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 12	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 08	Vert(CT)	n/a	-	n/a	999	
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 03	Horz(CT)	0 00	12	n/a	n/a	
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							
										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 or 10-0-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing

**REACTIONS** (size)

2=20-0-0 12=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0  
Max Horiz 2=-99 (LC 10)  
Max Uplift 2=-107 (LC 12), 12=-103 (LC 12), 14=-73 (LC 12), 15=-46 (LC 12), 16=-57 (LC 12), 18=-57 (LC 12), 19=-46 (LC 12), 20=-74 (LC 12)  
Max Grav 2=196 (LC 23), 12=173 (LC 24), 14=240 (LC 24), 15=94 (LC 1), 16=156 (LC 24), 17=137 (LC 1), 18=156 (LC 23), 19=92 (LC 1), 20=245 (LC 23)

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

TOP CHORD 1-2=0/28, 2-4=-52/96, 4-5=-40/67, 5-6=-26/94, 6-7=-39/153, 7-8=-39/153, 8-9=-17/94, 9-10=-12/44, 10-12=-54/64, 12-13=0/28  
BOT CHORD 2-20=-46/111, 19-20=-46/111, 18-19=-46/111, 16-18=-46/111, 15-16=-46/111, 14-15=-46/111, 12-14=-46/111  
WEBS 7-17=-112/0, 6-18=-123/136, 5-19=-84/113, 4-20=-171/178, 8-16=-122/136, 9-15=-84/114, 10-14=-169/177

**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=4 2psf; BCDL=4 2psf; h=18ft, B=50ft; L=30ft; eave=2ft; Cat II, Exp C, 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 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) All plates are 1 5x4 MT20 unless otherwise indicated
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc
- 7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 8) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 9) All bearings are assumed to be SP No 2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 103 lb uplift at joint 12, 57 lb uplift at joint 18, 46 lb uplift at joint 19, 74 lb uplift at joint 20, 57 lb uplift at joint 16, 46 lb uplift at joint 15 73 lb uplift at joint 14, 107 lb uplift at joint 2 and 103 lb uplift at joint 12

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd Chesterfield, MO 63017  
Date:

January 9, 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.sbscomponents.com)

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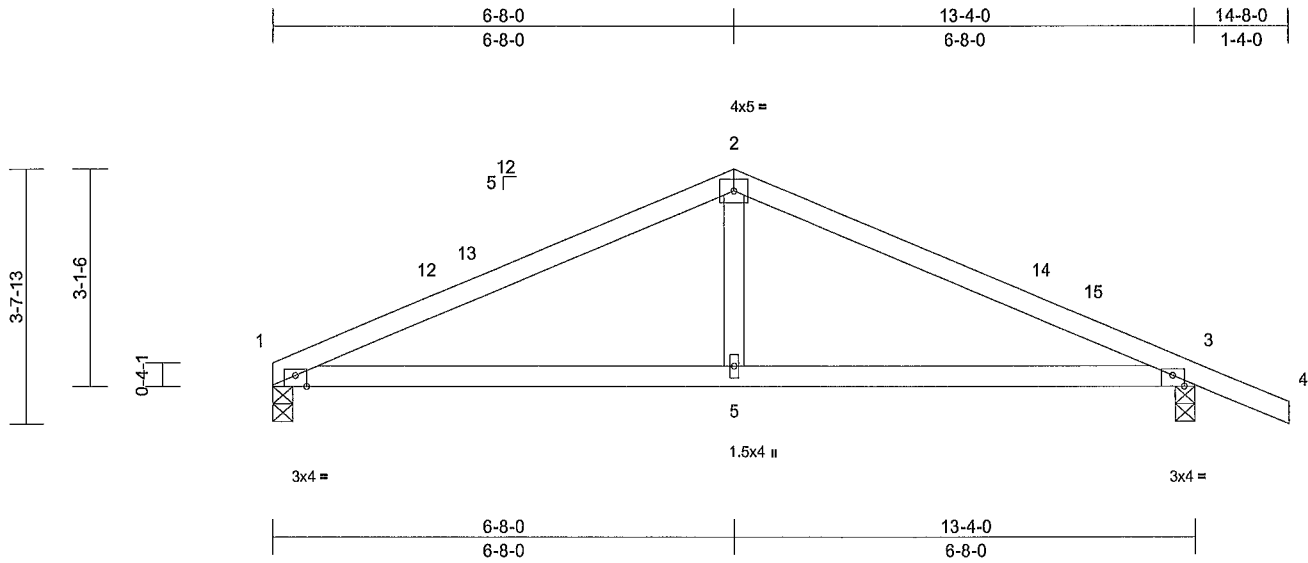
16023 Swingley Ridge Rd  
Chesterfield MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss T02	Truss Type Common	Qty 5	Ply 1	Mitch Brown Job Reference (optional)	T39755002
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8.73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries, Inc. Thu Jan 08 14:40:22  
ID HIUdRP5Cz72rUSHIOkfk0rzxQcJ-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDol7J4zJC?F

Page: 1



Scale = 1:31.7

Plate Offsets (X, Y) [1 0-2-0,Edge] [3 0-2-0 Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	Vert(LL)	-0 07	5-8	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	Vert(CT)	-0 12	5-8	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	Horz(CT)	0 01	3	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 48 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins  
BOT CHORD Structural wood sheathing directly applied or 9-9-4 oc bracing

**REACTIONS**

(size) 1=0-3-8 3=0-3-8  
Max Horiz 1=-72 (LC 10)  
Max Uplift 1=-130 (LC 12), 3=-201 (LC 12)  
Max Grav 1=450 (LC 1), 3=529 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-729/450, 2-3=-730/438, 3-4=0/28  
BOT CHORD 1-5=-287/620, 3-5=-287/620  
WEBS 2-5=-26/263

**NOTES**

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=4 2psf; h=18ft, B=50ft; L=30ft, eave=4ft; Cat II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10 15 to 14-8-0 zone cantilever left and right exposed , end vertical left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads

- \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - All bearings are assumed to be SP No 2
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1 and 201 lb uplift at joint 3
- LOAD CASE(S) Standard



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

January 9,2026

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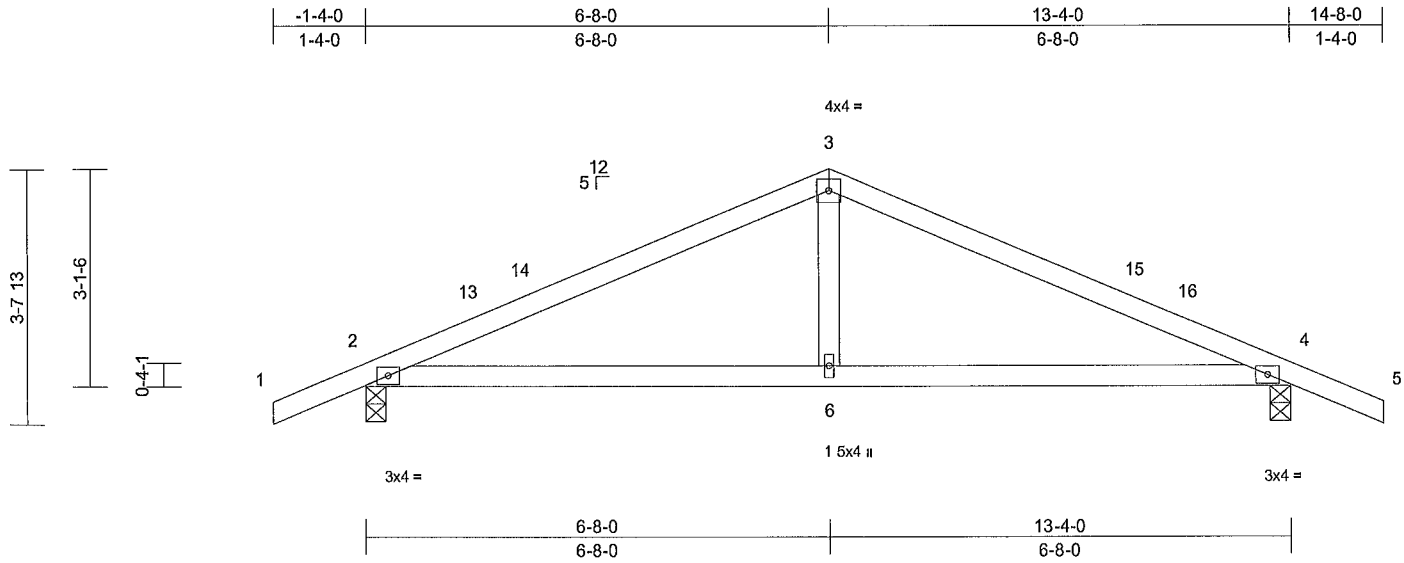
18023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314.434.1200 / MITek-US.com

Job 260108-01KM	Truss T01	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T39755003
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Coastal Truss & Vinyl Sliding Patterson GA 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MITek Industries Inc Thu Jan 08 14 40:22  
ID HIUdRP5Cz?2rUSHIOkkl0rzxGcJ-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?F

Page 1



Scale = 1/317

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 45	Vert(LL)	0 06	6-12	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 41	Vert(CT)	-0 11	6-9	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 06	Horz(CT)	0 01	4	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 50 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=-74 (LC 10)  
Max Uplift 2=-198 (LC 12), 4=-198 (LC 12)  
Max Grav 2=525 (LC 1), 4=525 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-718/407, 3-4=-718/407, 4-5=0/28  
BOT CHORD 2-6=-240/608, 4-6=-240/608  
WEBS 3-6=-6/281

**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=4 2psf; BCDL=4 2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 14-8-0 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads

- 5) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
  - 6) All bearings are assumed to be SP No 2
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 198 lb uplift at joint 4
- LOAD CASE(S) Standard



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

January 9, 2026

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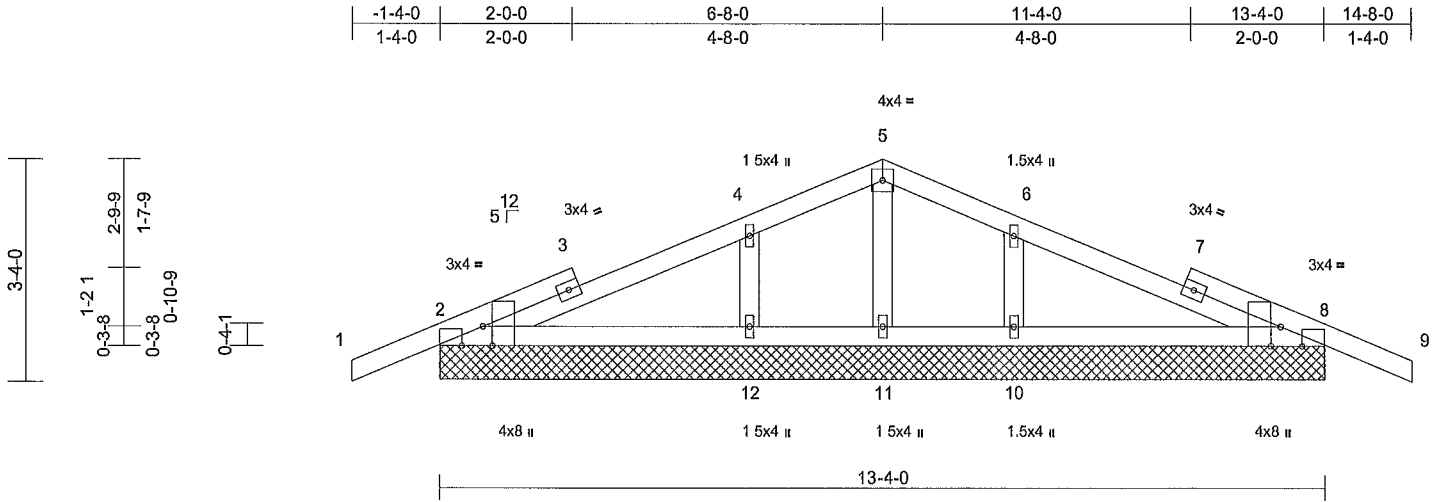
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314.434.1200 / MITek-US.com

Job 260108-01KMK	Truss GE01	Truss Type Common Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T39755004
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Coastal Truss & Vinyl Siding Patterson GA - 31577

Run 8 73 S Aug 13 2025 Print: 8 730 S Aug 13 2025 MiTek Industries Inc Thu Jan 08 14 40 19  
ID S87MBM0RN9HimXqb1TdFmazxQcP-RfC?PsB70Hq3NSgPqnL8w3lTXbGKWrCDoi7J4zJc?f

Page 1



Scale = 1:33.2

Plate Offsets (X, Y) [2 0-3-8,Edge], [2 0-3-13,Edge], [8 0-3-8,Edge], [8 0-3-13,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 16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 15	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 05	Horz(CT)	0 00	8	n/a	n/a		
BCDL	7 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(size) 2=13-4-0, 8=13-4-0, 10=13-4-0, 11=13-4-0 12=13-4-0  
Max Horiz 2=-67 (LC 10)  
Max Uplift 2=-108 (LC 12), 8=-108 (LC 12), 10=-98 (LC 12), 12=-98 (LC 12)  
Max Grav 2=194 (LC 23), 8=194 (LC 24), 10=301 (LC 1), 11=82 (LC 1), 12=301 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-4=-93/149, 4-5=0/103, 5-6=0/103, 6-8=-94/145, 8-9=0/28  
BOT CHORD 2-12=-105/191, 11-12=-105/191, 10-11=-105/191, 8-10=-105/191

**WEBS**

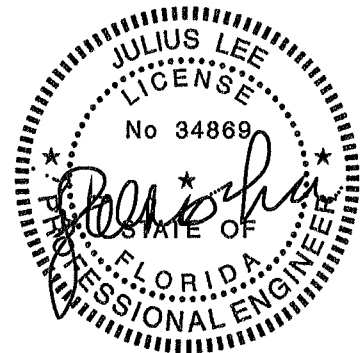
5-11=-112/41 4-12=-208/278, 6-10=-208/278

**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=4 2psf, BCDL=4 2psf, h=18ft; B=50ft; L=30ft, eave=2ft; Cat. II, Exp C, Enclosed, MWFRS (directional) and C-C Zone3 zone, cantilever left and right exposed, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60

- 3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc
- 7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 8) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 9) All bearings are assumed to be SP No 2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2, 108 lb uplift at joint 8, 98 lb uplift at joint 12, 98 lb uplift at joint 10, 108 lb uplift at joint 2 and 108 lb uplift at joint 8

LOAD CASE(S) Standard



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

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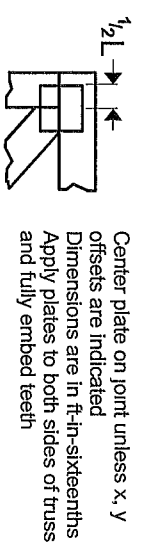
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI 1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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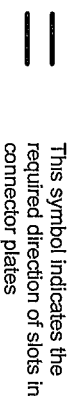
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Chesterfield, MO 63017  
314 434 1200 / MiTek-US.com

# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss

## PLATE SIZE

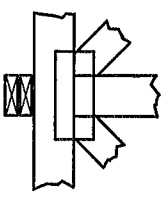
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

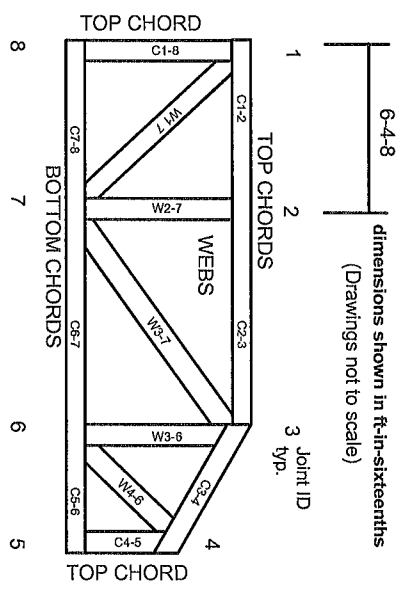
## BEARING



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



6-4-8 dimensions shown in fr-in-sixteenths (Drawings not to scale)  
Joint ID typ.  
TOP CHORDS  
WEBS  
BOTTOM CHORDS

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

## Product Code Approvals

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

## Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown  
Lumber design values are in accordance with ANSI/TP1 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

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



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