



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

RE: 5251710 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: ANDREW PICKLO Project Name: Picklo Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Lake City State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 17 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	T41930365	PB01	7/22/26	15	T41930379	V03	7/22/26
2	T41930366	PB01G	7/22/26	16	T41930380	V04	7/22/26
3	T41930367	T01	7/22/26	17	T41930381	V05	7/22/26
4	T41930368	T01G	7/22/26				
5	T41930369	T02	7/22/26				
6	T41930370	T02A	7/22/26				
7	T41930371	T02G	7/22/26				
8	T41930372	T03	7/22/26				
9	T41930373	T04	7/22/26				
10	T41930374	T04G	7/22/26				
11	T41930375	T05	7/22/26				
12	T41930376	T05G	7/22/26				
13	T41930377	V01	7/22/26				
14	T41930378	V02	7/22/26				

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.

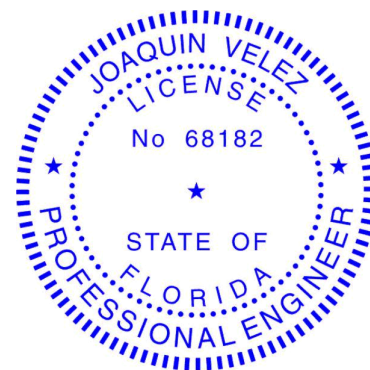
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22,2026

Velez, Joaquin

1 of 1

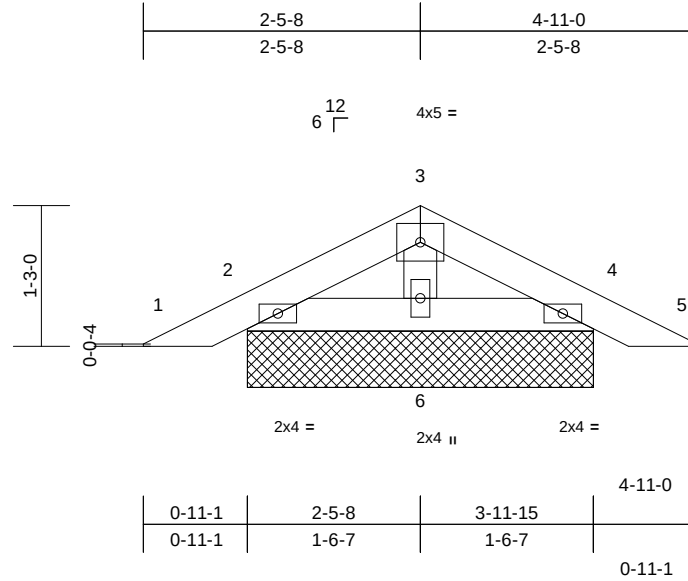
Job	Truss	Truss Type	Qty	Ply	
5251710	PB01	Piggyback	15	1	T41930365
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1

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Scale = 1:20.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 14 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=3-0-14, 4=3-0-14, 6=3-0-14
Max Horiz 2=-18 (LC 17)
Max Uplift 2=-37 (LC 12), 4=-40 (LC 13), 6=-18 (LC 12)
Max Grav 2=103 (LC 25), 4=103 (LC 26), 6=113 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-20/48, 3-4=-20/45, 4-5=0/17
BOT CHORD 2-6=-5/39, 4-6=-5/39
WEBS 3-6=-52/33

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2, 40 lb uplift at joint 4, 18 lb uplift at joint 6, 37 lb uplift at joint 2 and 40 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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

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

MiTek®

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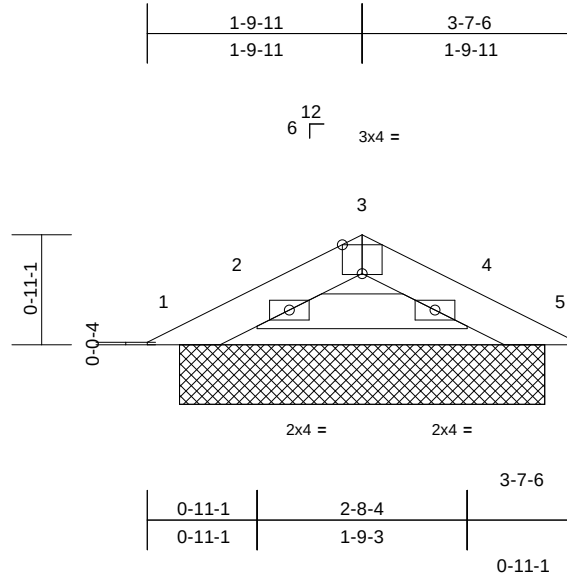
Job	Truss	Truss Type	Qty	Ply	
5251710	PB01G	Piggyback	2	1	T41930366
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:19.4

Plate Offsets (X, Y): [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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=3-0-14, 2=3-0-14, 5=3-0-14
Max Horiz 1=13 (LC 12)
Max Uplift 1=-19 (LC 26), 2=-35 (LC 12), 5=-23 (LC 13)
Max Grav 1=2 (LC 12), 2=181 (LC 1), 5=88 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-12/34, 2-3=-81/78, 3-4=-74/67, 4-5=-37/38
BOT CHORD 2-4=-39/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 19 lb uplift at joint 1, 23 lb uplift at joint 5 and 35 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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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.sbcsccomponents.com)

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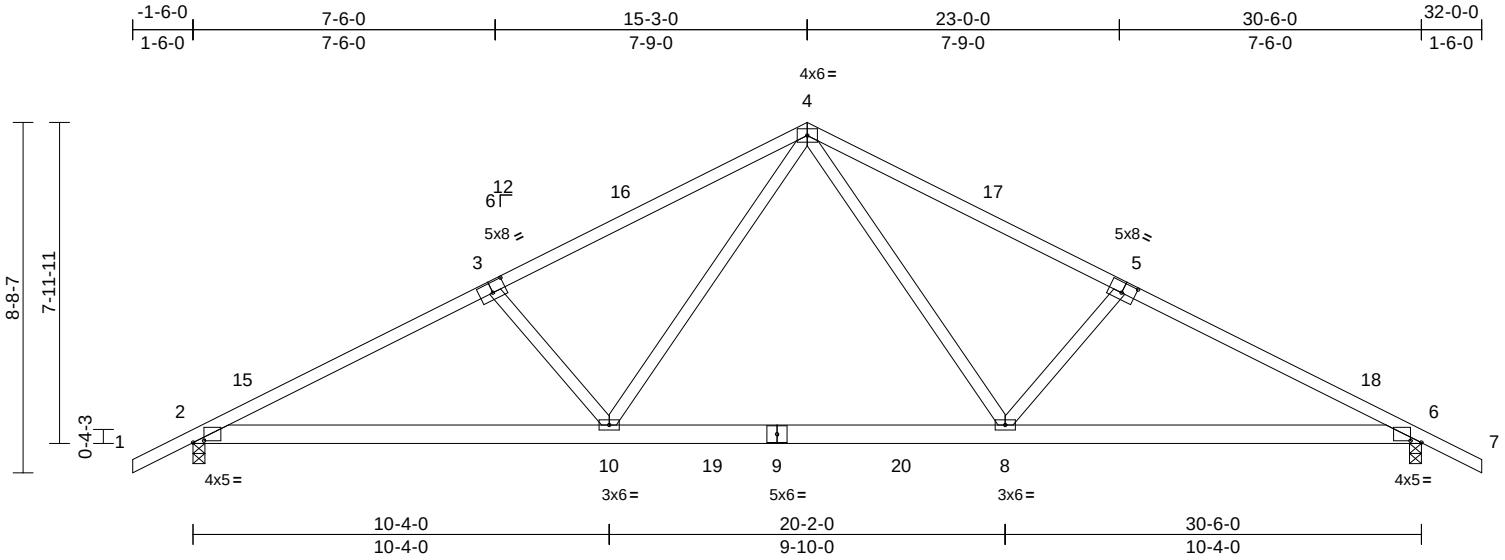
Job	Truss	Truss Type	Qty	Ply	T41930367
5251710	T01	Common	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:57.2									
Plate Offsets (X, Y): [2:0-3-4,0-0-9], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-3-4,0-0-9]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.22 8-10	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.41 8-10	>892	180
BCLL	0.0*	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.08 6	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 166 lb FT = 20%									

LUMBER	
TOP CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 3-1,5-7:2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-3-3 oc bracing.
REACTIONS	
(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-140 (LC 13)
Max Uplift	2=-445 (LC 9), 6=-445 (LC 8)
Max Grav	2=1579 (LC 2), 6=1579 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/40, 2-4=-2789/1173, 4-6=-2789/1173, 6-7=0/40
BOT CHORD	2-10=-960/2459, 8-10=-564/1617, 6-8=-976/2459
WEBS	4-8=-526/1116, 5-8=-458/295, 4-10=-526/1116, 3-10=-458/295

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-10, Zone1 1-6-10 to 15-3-0, Zone2 15-3-0 to 19-6-12, Zone1 19-6-12 to 32-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 2 and 445 lb uplift at joint 6.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 2-10=-20, 8-10=-60, 6-8=-20

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Date: July 22,2026

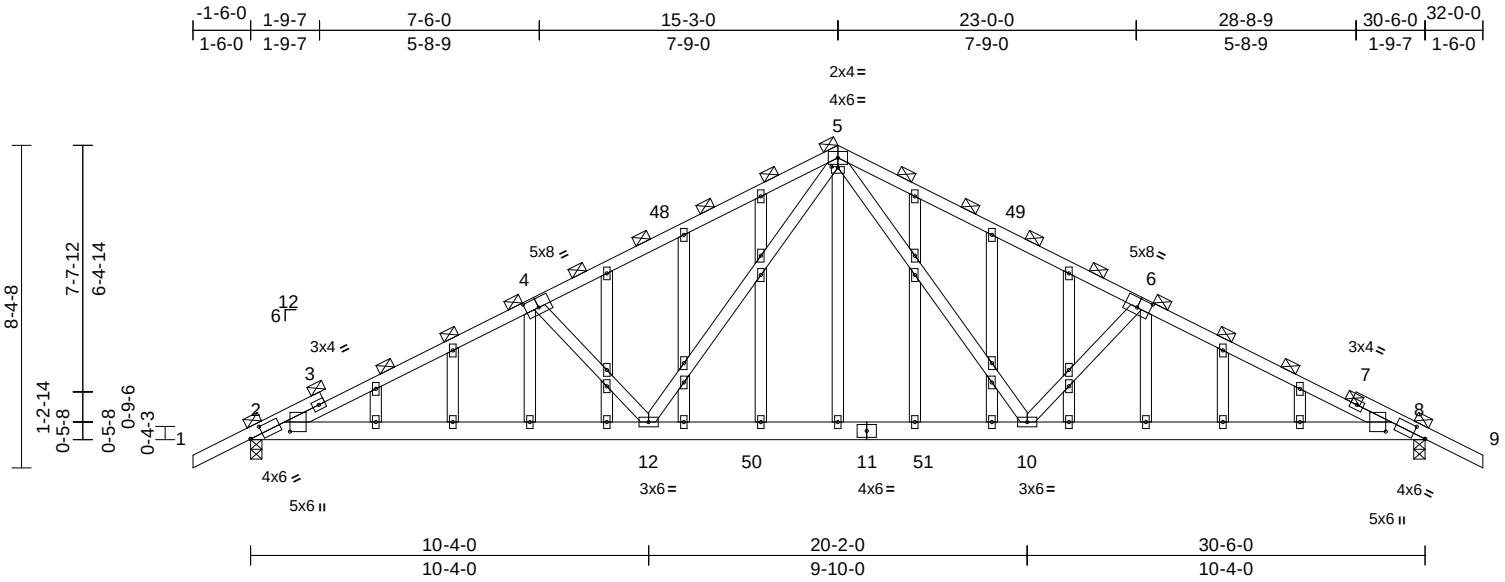
Job	Truss	Truss Type	Qty	Ply	
5251710	T01G	Common	1	1	T41930368
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1

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Scale = 1:59.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.21	10-44	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.42	10-44	>856	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 238 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 4-5,6-5:2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	2-0-0 oc purlins (2-2-0 max.).
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS	(size) 2=0-3-8, 8=0-3-8
	Max Horiz 2=-134 (LC 13)
	Max Uplift 2=-376 (LC 9), 8=-376 (LC 8)
	Max Grav 2=1379 (LC 2), 8=1379 (LC 2)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/44, 2-5=-2481/939, 5-8=-2481/939, 8-9=0/44
BOT CHORD	2-12=-769/2213, 10-12=-409/1390, 8-10=-784/2213
WEBS	5-10=-405/960, 6-10=-500/303, 5-12=-405/960, 4-12=-500/303

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-5, Zone1 1-6-5 to 15-3-0, Zone2 15-3-0 to 19-6-12, Zone1 19-6-12 to 32-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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.

- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 376 lb uplift at joint 8 and 376 lb uplift at joint 2.
- 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

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Date:

July 22,2026

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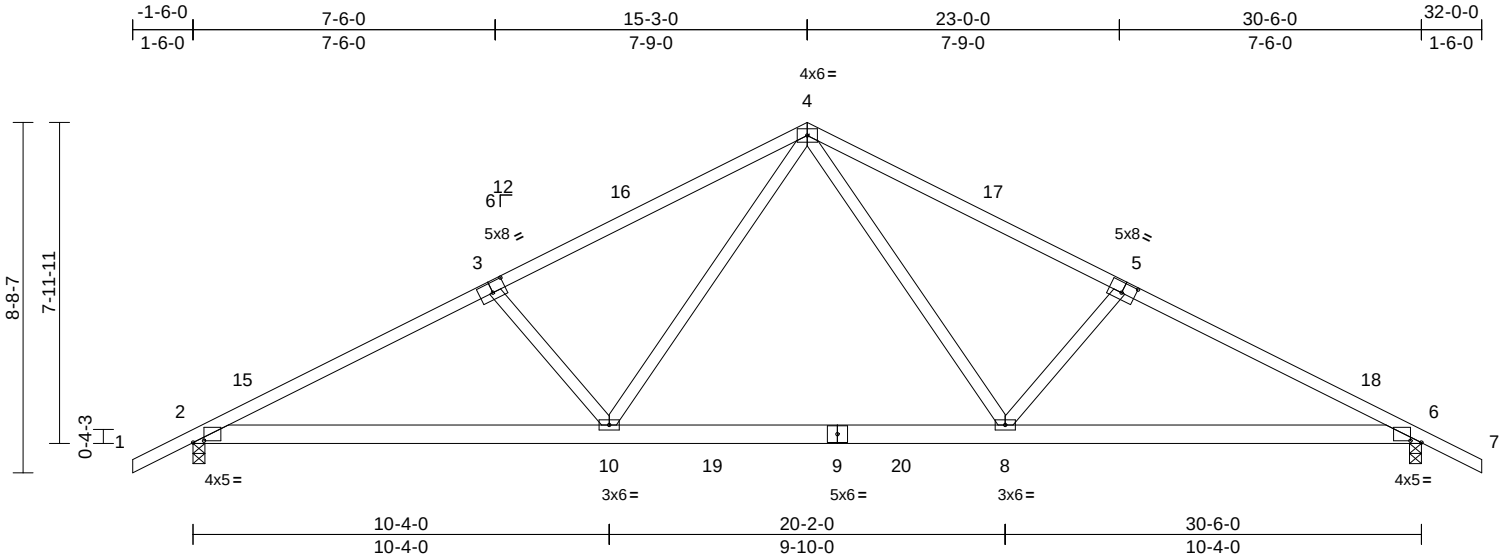
Job	Truss	Truss Type	Qty	Ply	
5251710	T02	Common	5	1	T41930369
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:29

Page: 1

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Scale = 1:57.2

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

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	0.77	Vert(LL)	-0.22	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.41	8-10	>892	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 3-1,5-7:2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-140 (LC 17)
Max Uplift 2=-387 (LC 12), 6=-387 (LC 13)
Max Grav 2=1579 (LC 2), 6=1579 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-4=-2789/666, 4-6=-2789/665, 6-7=0/40
BOT CHORD 2-10=-628/2472, 8-10=-280/1621, 6-8=-487/2459
WEBS 4-8=-297/1122, 5-8=-458/295, 4-10=-298/1123, 3-10=-458/295

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-10, Zone1 1-6-10 to 15-3-0, Zone2 15-3-0 to 19-6-12, Zone1 19-6-12 to 32-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 6 and 387 lb uplift at joint 2.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 2-10=-20, 8-10=-60, 6-8=-20

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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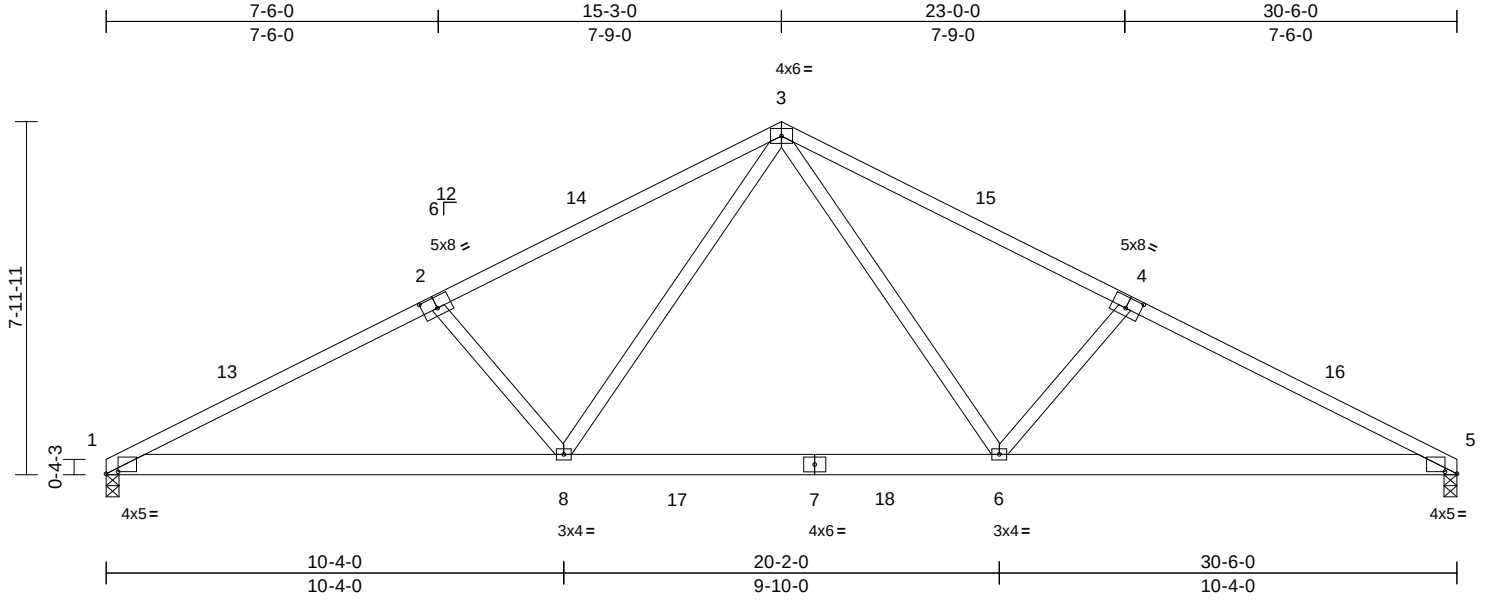
Job	Truss	Truss Type	Qty	Ply	
5251710	T02A	Common	5	1	T41930370
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:29

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Scale = 1:52

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

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	0.92	Vert(LL)	-0.16	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.33	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 161 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-11-10 oc bracing.

REACTIONS

(size) 1=0-3-8, 5=0-3-8
Max Horiz 1=127 (LC 12)
Max Uplift 1=-290 (LC 12), 5=-290 (LC 13)
Max Grav 1=1331 (LC 2), 5=1331 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2382/529, 3-5=-2382/528
BOT CHORD 1-8=-520/2098, 6-8=-207/1367,
5-6=-391/2098
WEBS 3-6=-229/905, 4-6=-471/301, 3-8=-230/905,
2-8=-471/301

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-10, Zone1 3-0-10 to 15-3-0, Zone2 15-3-0 to 19-6-12, Zone1 19-6-12 to 30-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 1 and 290 lb uplift at joint 5.

LOAD CASE(S) Standard

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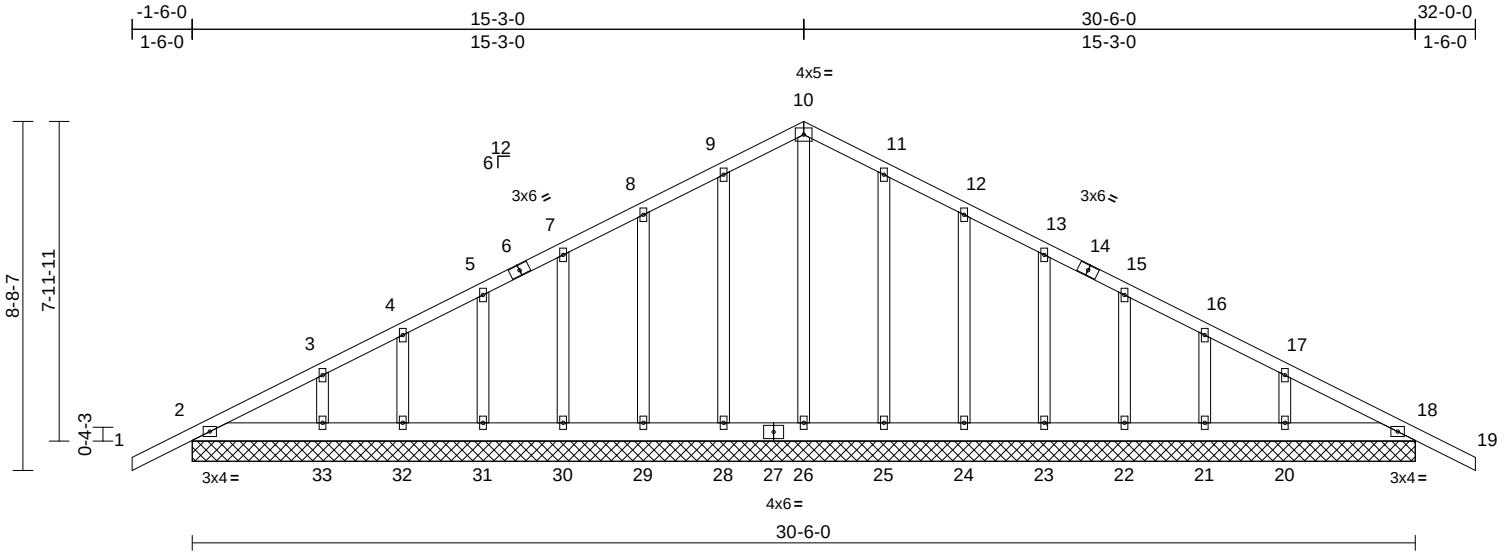
Job	Truss	Truss Type	Qty	Ply	
5251710	T02G	Common Supported Gable	1	1	T41930371
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:57.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	18	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 205 lb FT = 20%											

LUMBER		BOT CHORD	2-33=-57/155, 32-33=-57/155, 31-32=-57/155, 30-31=-57/155, 29-30=-57/155, 28-29=-57/155, 26-28=-57/155, 25-26=-57/155, 24-25=-57/155, 23-24=-57/155, 22-23=-57/155, 21-22=-57/155, 20-21=-57/155, 18-20=-57/159	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2, 35 lb uplift at joint 18, 68 lb uplift at joint 28, 69 lb uplift at joint 29, 67 lb uplift at joint 30, 69 lb uplift at joint 31, 61 lb uplift at joint 32, 88 lb uplift at joint 33, 66 lb uplift at joint 25, 70 lb uplift at joint 24, 67 lb uplift at joint 23, 69 lb uplift at joint 22, 62 lb uplift at joint 21 and 85 lb uplift at joint 20.
TOP CHORD	2x4 SP No.2			
BOT CHORD	2x6 SP No.2			
OTHERS	2x4 SP No.3			
BRACING		WEBS	10-26=-130/23, 9-28=-128/84, 8-29=-119/91, 7-30=-120/87, 5-31=-122/89, 4-32=-113/86, 3-33=-142/100, 11-25=-128/84, 12-24=-119/91, 13-23=-120/87, 15-22=-122/89, 16-21=-113/86, 17-20=-142/100	LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			

REACTIONS (size)	2=30-6-0, 18=30-6-0, 20=30-6-0, 21=30-6-0, 22=30-6-0, 23=30-6-0, 24=30-6-0, 25=30-6-0, 26=30-6-0, 28=30-6-0, 29=30-6-0, 30=30-6-0, 31=30-6-0, 32=30-6-0, 33=30-6-0
Max Horiz	2=-140 (LC 13)
Max Uplift	2=-41 (LC 8), 18=-35 (LC 13), 20=-85 (LC 13), 21=-62 (LC 13), 22=-69 (LC 13), 23=-67 (LC 13), 24=-70 (LC 13), 25=-66 (LC 13), 28=-68 (LC 12), 29=-69 (LC 12), 30=-67 (LC 12), 31=-69 (LC 12), 32=-61 (LC 12), 33=-88 (LC 12)
Max Grav	2=230 (LC 1), 18=230 (LC 1), 20=226 (LC 1), 21=136 (LC 26), 22=166 (LC 1), 23=159 (LC 26), 24=159 (LC 1), 25=168 (LC 26), 26=170 (LC 22), 28=168 (LC 25), 29=159 (LC 1), 30=159 (LC 25), 31=166 (LC 1), 32=136 (LC 25), 33=226 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/40, 2-3=-149/59, 3-4=-99/66, 4-5=-74/80, 5-7=-55/102, 7-8=-48/126, 8-9=-66/166, 9-10=-84/211, 10-11=-84/211, 11-12=-66/166, 12-13=-48/118, 13-15=-41/72, 15-16=-41/36, 16-17=-66/23, 17-18=-117/41, 18-19=0/40

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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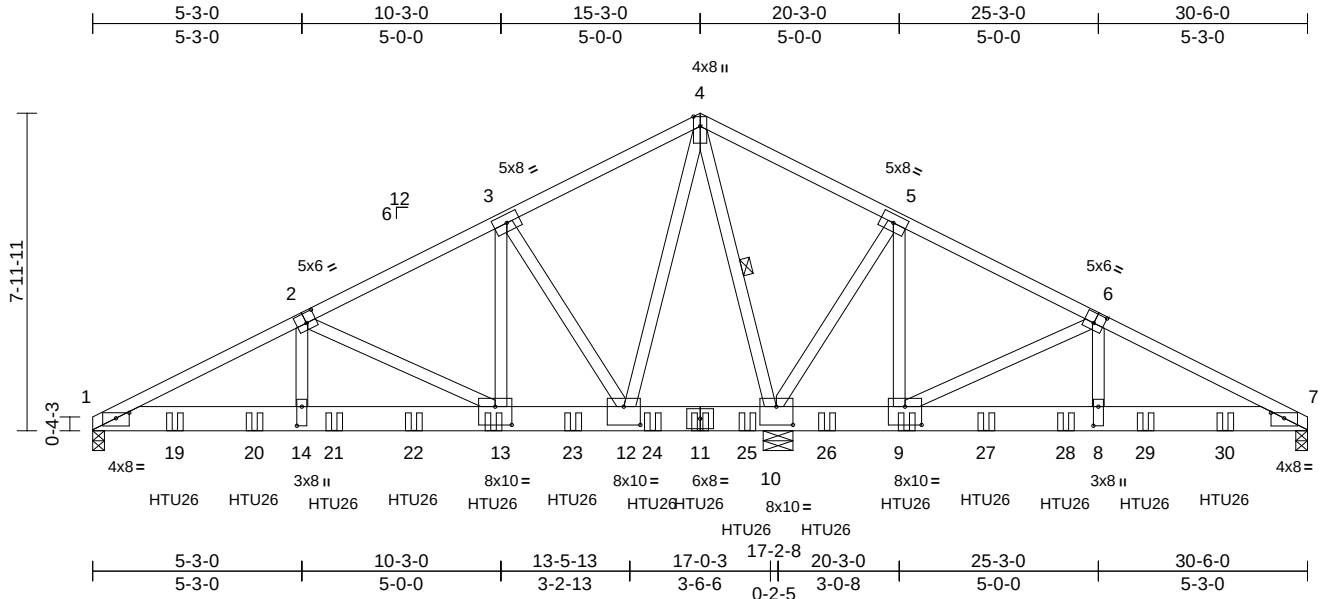
Job	Truss	Truss Type	Qty	Ply	
5251710	T03	Common Girder	1	2	T41930372
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:57.9					
Plate Offsets (X, Y): [1:0-4-0,0-1-11], [2:0-3-0,0-3-0], [6:0-3-0,0-3-0], [7:0-4-0,0-1-11], [8:0-5-12,0-1-8], [9:0-5-0,0-5-8], [10:0-5-0,0-5-8], [12:0-5-0,0-5-8], [13:0-5-0,0-5-8], [14:0-5-12,0-1-8]					
Loading	(psf)	Spacing	2-0-0	CSI	DEFL
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24
TCDL	10.0	Lumber DOL	1.25	BC	0.40
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS	
				in (loc)	l/defl
				Vert(LL)	-0.09 13-14 >999 240
				Vert(CT)	-0.17 13-14 >999 180
				Horz(CT)	0.03 7 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 437 lb FT = 20%	

LUMBER
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* 12-4,10-4:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 10-12,9-10.
WEBS 1 Row at midpt 4-10

REACTIONS (size) 1=0-3-8, 7=0-3-8, 10=0-9-0
Max Horiz 1=-126 (LC 9)
Max Uplift 1=-916 (LC 8), 7=-533 (LC 9), 10=-3233 (LC 9)
Max Grav 1=4130 (LC 23), 7=2363 (LC 24), 10=15040 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-6984/1543, 3-4=-26/234, 4-5=-709/3635, 5-7=-3128/1536
BOT CHORD 1-14=-1445/6229, 13-14=-1430/6156, 12-13=-531/2397, 10-12=-1470/508, 9-10=-1347/384, 8-9=-555/2703, 7-8=-570/2779
WEBS 2-14=-728/3586, 2-13=-4224/1010, 3-13=-1048/4916, 5-9=-768/3633, 6-9=-4432/1055, 6-8=-772/3788, 4-12=-1277/5613, 3-12=-4657/1136, 4-10=-7530/1671, 5-10=-3537/890

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 916 lb uplift at joint 1, 533 lb uplift at joint 7 and 3233 lb uplift at joint 10.
- Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 28-5-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 1-7=-20
Concentrated Loads (lb)

Vert: 11=-1141 (B), 13=-1141 (B), 9=-1141 (B), 19=-1141 (B), 20=-1141 (B), 21=-1141 (B), 22=-1141 (B), 23=-1141 (B), 24=-1141 (B), 25=-1141 (B), 26=-1141 (B), 27=-1141 (B), 28=-1141 (B), 29=-1141 (B), 30=-1141 (B)

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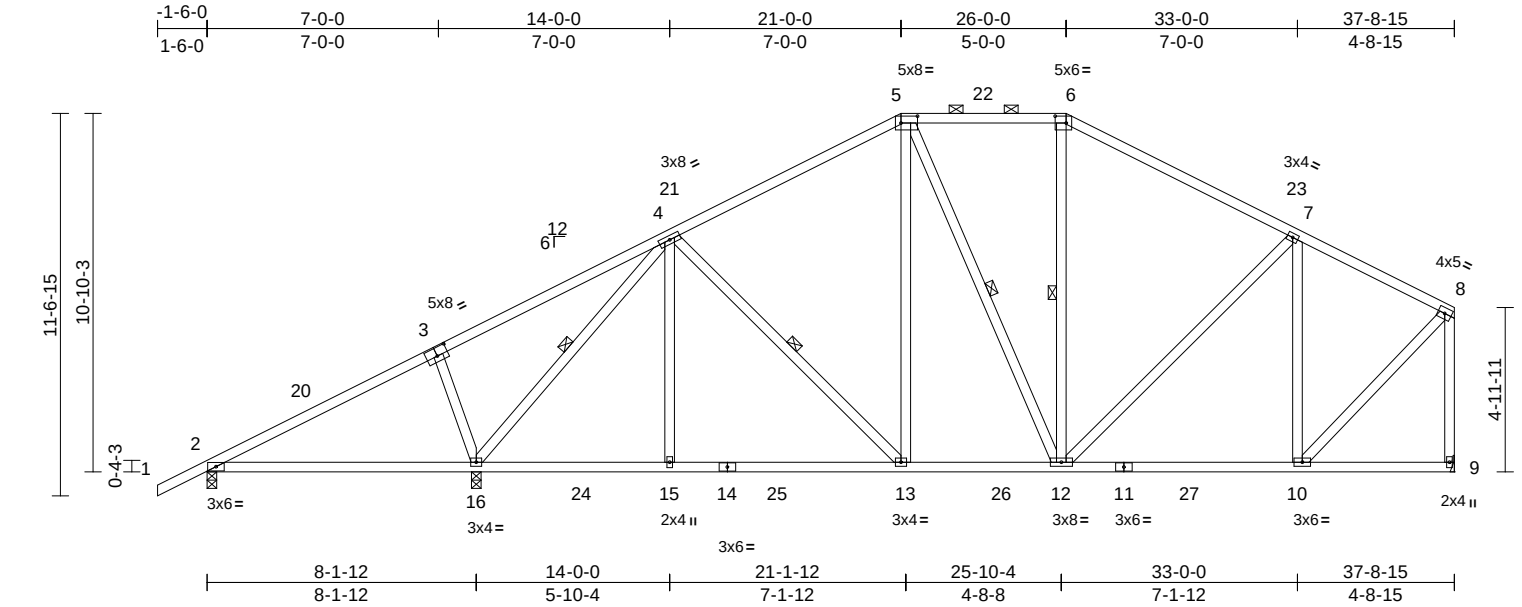
Job	Truss	Truss Type	Qty	Ply	
5251710	T04	Piggyback Base	15	1	T41930373
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30

Page: 1

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Scale = 1:69.7

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

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	0.55	Vert(LL)	0.14	16-19	>701	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.22	16-19	>439	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 251 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-16, 4-13, 5-12, 6-12

REACTIONS (size) 2=0-3-8, 9= Mechanical, 16=0-3-8

Max Horiz 2=303 (LC 12)

Max Uplift 2=-85 (LC 8), 9=-268 (LC 13), 16=-471 (LC 12)

Max Grav 2=370 (LC 28), 9=1311 (LC 2), 16=1785 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-4=-152/194, 4-5=-1113/281, 5-6=-897/306, 6-7=-1087/287, 7-8=-894/204, 8-9=-1261/276

BOT CHORD 2-16=-110/79, 15-16=-240/897, 13-15=-240/897, 12-13=-168/920, 10-12=-144/779, 9-10=-2/6

WEBS 3-16=-403/252, 4-16=-1517/335, 4-15=0/346, 4-13=-40/135, 5-13=-37/278, 5-12=-153/93, 6-12=-31/222, 7-12=-49/214, 7-10=-566/188, 8-10=-204/1111

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 21-0-0, Zone3 21-0-0 to 26-0-0, Zone2 26-0-0 to 32-7-12, Zone1 32-7-12 to 37-7-3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 9, 471 lb uplift at joint 16 and 85 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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

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

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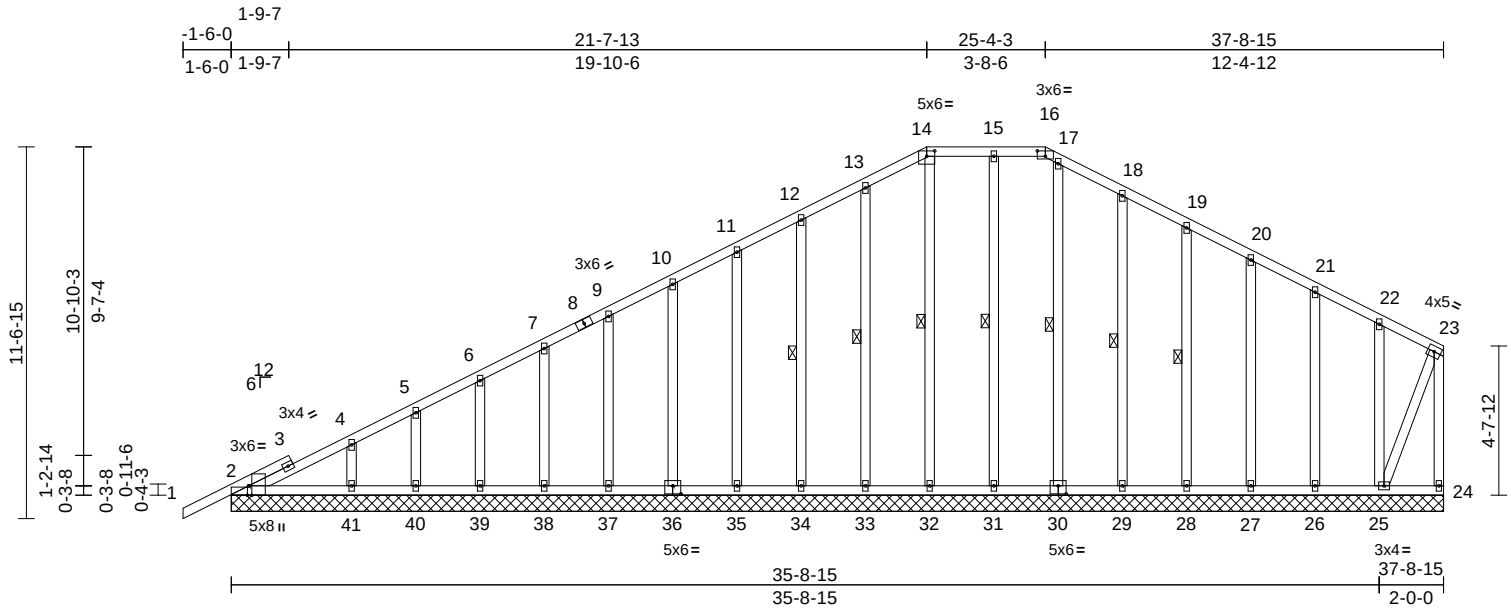
Job	Truss	Truss Type	Qty	Ply	
5251710	T04G	Piggyback Base Supported Gable	2	1	T41930374
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30

Page: 1

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Scale = 1:71.7

Plate Offsets (X, Y): [2:0-0-8,Edge], [2:0-0-8,Edge], [14:0-3-0,0-2-0], [16:0-3-0,0-2-0], [30:0-3-0,0-3-0], [36:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	25	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 306 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 24-25.
WEBS 1 Row at midpt 19-28, 18-29, 17-30, 15-31, 14-32, 13-33, 12-34

REACTIONS (size)

2=37-8-15, 24=37-8-15,
25=37-8-15, 26=37-8-15,
27=37-8-15, 28=37-8-15,
29=37-8-15, 30=37-8-15,
31=37-8-15, 32=37-8-15,
33=37-8-15, 34=37-8-15,
35=37-8-15, 36=37-8-15,
37=37-8-15, 38=37-8-15,
39=37-8-15, 40=37-8-15,
41=37-8-15
Max Horiz 2=296 (LC 12)
Max Uplift 2=-28 (LC 8), 24=-11 (LC 9),
25=-188 (LC 13), 26=-69 (LC 13),
27=-68 (LC 13), 28=-67 (LC 13),
29=-78 (LC 13), 31=-43 (LC 9),
32=-4 (LC 9), 33=-67 (LC 12),
34=-69 (LC 12), 35=-67 (LC 12),
36=-68 (LC 12), 37=-68 (LC 12),
38=-68 (LC 12), 39=-68 (LC 12),
40=-66 (LC 12), 41=-71 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 23-24=-111/25, 1-2=0/40, 2-4=-267/90,
4-5=-222/65, 5-6=-179/70, 6-7=-136/75,
7-9=-96/87, 9-10=-66/104, 10-11=-47/128,
11-12=-54/152, 12-13=-73/184,
13-14=-91/229, 14-15=-86/222,
15-16=-86/222, 16-17=-88/216,
17-18=-88/222, 18-19=-68/172,
19-20=-50/125, 20-21=-32/78, 21-22=-29/40,
22-23=-42/35
BOT CHORD 2-41=-14/50, 40-41=-14/50, 39-40=-14/50,
38-39=-14/50, 37-38=-14/50, 35-37=-14/50,
34-35=-14/50, 33-34=-14/50, 32-33=-14/50,
31-32=-15/49, 29-31=-15/49, 28-29=-15/49,
27-28=-15/49, 26-27=-15/49, 25-26=-15/49,
24-25=0/1
WEBS 22-25=-125/91, 21-26=-119/89,
20-27=-120/88, 19-28=-120/87,
18-29=-121/98, 17-30=-117/0, 15-31=-131/55,
14-32=-117/16, 13-33=-122/84,
12-34=-120/91, 11-35=-120/88,
10-36=-120/88, 9-37=-120/88, 7-38=-119/88,
6-39=-125/89, 5-40=-100/87, 4-41=-180/98,
23-25=-39/128

NOTES

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

- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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.
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	T41930374
5251710	T04G	Piggyback Base Supported Gable	2	1	Job Reference (optional)

- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 24, 28 lb uplift at joint 2, 188 lb uplift at joint 25, 69 lb uplift at joint 26, 68 lb uplift at joint 27, 67 lb uplift at joint 28, 78 lb uplift at joint 29, 43 lb uplift at joint 31, 4 lb uplift at joint 32, 67 lb uplift at joint 33, 69 lb uplift at joint 34, 67 lb uplift at joint 35, 68 lb uplift at joint 36, 68 lb uplift at joint 37, 68 lb uplift at joint 38, 68 lb uplift at joint 39, 66 lb uplift at joint 40, 71 lb uplift at joint 41 and 28 lb uplift at joint 2.

LOAD CASE(S) Standard

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

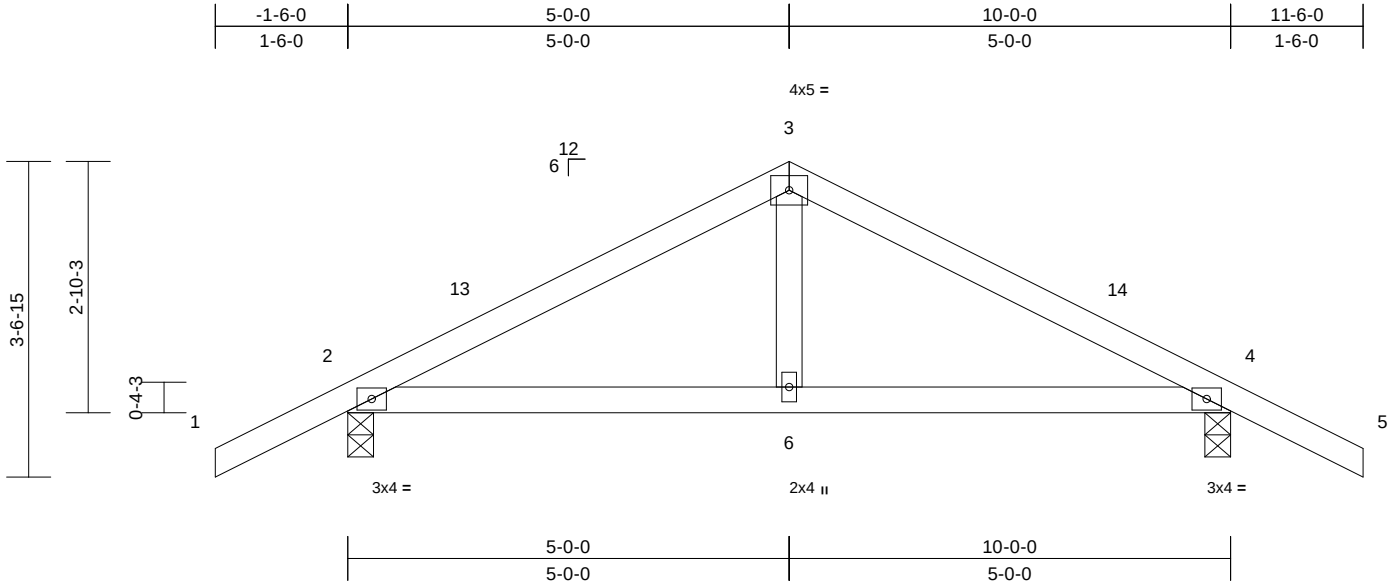
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Job	Truss	Truss Type	Qty	Ply	
5251710	T05	Common	3	1	T41930375
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30
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Page: 1



Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.02	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.04	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-54 (LC 13)
Max Uplift 2=-134 (LC 12), 4=-134 (LC 13)
Max Grav 2=490 (LC 1), 4=490 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-533/201, 3-4=-533/201, 4-5=0/40
BOT CHORD 2-6=-61/426, 4-6=-61/426
WEBS 3-6=-3/228

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-0-0, Zone2 5-0-0 to 9-5-8, Zone1 9-5-8 to 11-6-0 zone;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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 4.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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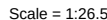
Page: 1

Plate Offsets (X, Y): [2:0-4-0.0-2-1] [8:0-4-0.0-2-1]

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS	
(size)	2=10-0-0, 8=10-0-0, 10=10-0-0, 11=10-0-0, 12=10-0-0
Max Horiz	2=49 (LC 12)
Max Uplift	2=-72 (LC 12), 8=-80 (LC 13), 10=-80 (LC 13), 12=-78 (LC 12)
Max Grav	2=218 (LC 1), 8=218 (LC 1), 10=209 (LC 26), 11=129 (LC 1), 12=209 (LC 25)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/40, 2-4=-39/54, 4-5=-32/100, 5-6=-31/99, 6-8=-35/38, 8-9=0/40
BOT CHORD	2-12=-23/81, 11-12=-23/81, 10-11=-23/81, 8-10=-23/81
WEBS	5-11=-101/20, 4-12=-150/153, 6-10=-150/153

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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/TP1 1.

- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2'-0"-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2, 80 lb uplift at joint 8, 78 lb uplift at joint 12, 80 lb uplift at joint 10, 72 lb uplift at joint 2 and 80 lb uplift at joint 8.
- 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

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22, 2026



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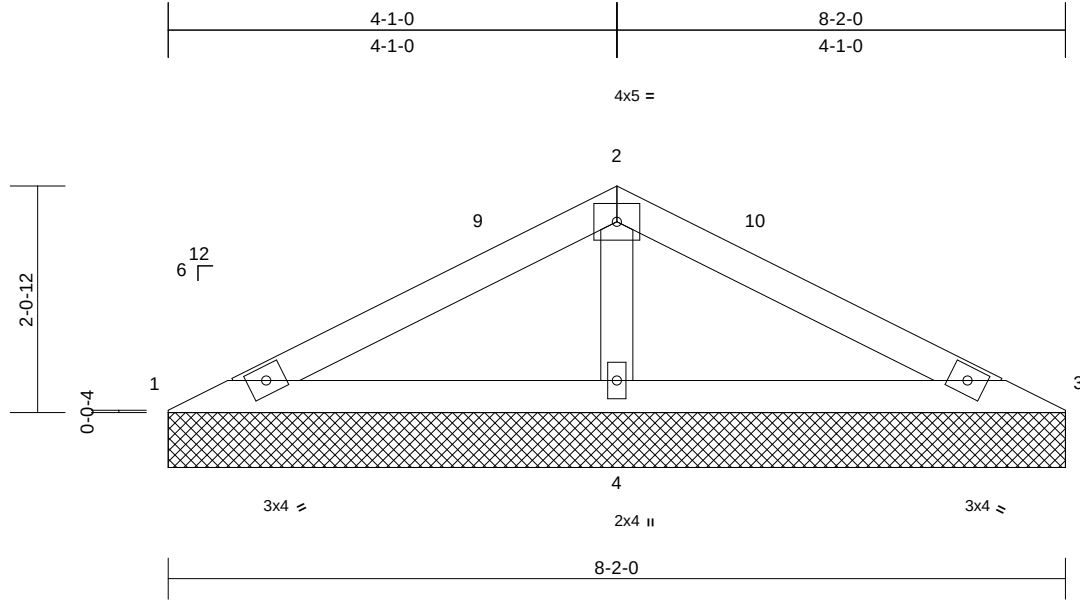
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-LLS.com

Job	Truss	Truss Type	Qty	Ply	
5251710	V01	Valley	1	1	T41930377
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=8-2-0, 3=8-2-0, 4=8-2-0
Max Horiz 1=-32 (LC 13)
Max Uplift 1=-17 (LC 12), 3=-23 (LC 13), 4=-123 (LC 12)
Max Grav 1=80 (LC 25), 3=80 (LC 26), 4=550 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-161/271, 2-3=-175/271
BOT CHORD 1-4=-215/237, 3-4=-215/237
WEBS 2-4=-385/283

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 4-1-8, Zone3 4-1-8 to 8-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 23 lb uplift at joint 3 and 123 lb uplift at joint 4.

LOAD CASE(S) Standard

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017
Date:

July 22,2026

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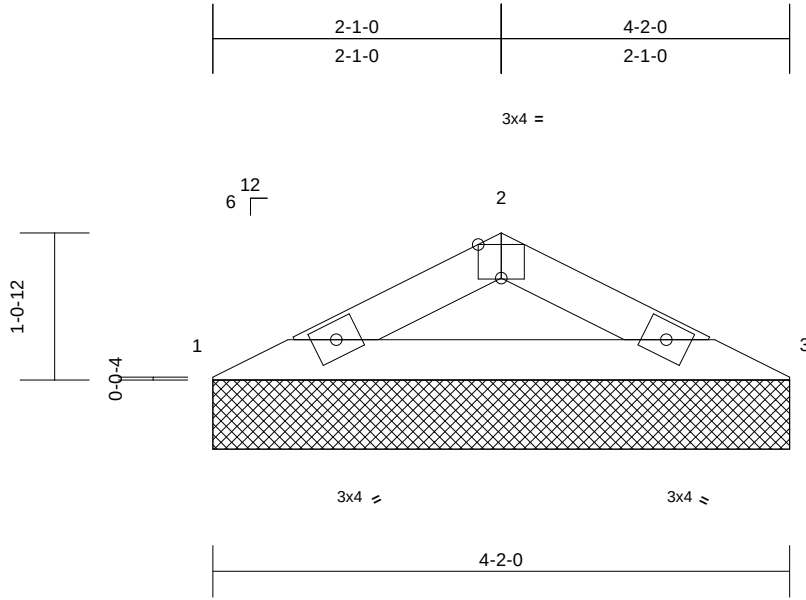
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5251710	V02	Valley	1	1	T41930378
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30
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Page: 1



Scale = 1:16.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

LUMBER

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 40 lb uplift at joint 3.

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS

(size) 1=4-2-0, 3=4-2-0
Max Horiz 1=15 (LC 16)
Max Uplift 1=-40 (LC 12), 3=-40 (LC 13)
Max Grav 1=167 (LC 1), 3=167 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-292/249, 2-3=-292/249
BOT CHORD 1-3=-205/254

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;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.
- Gable requires continuous bottom chord bearing.
- 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.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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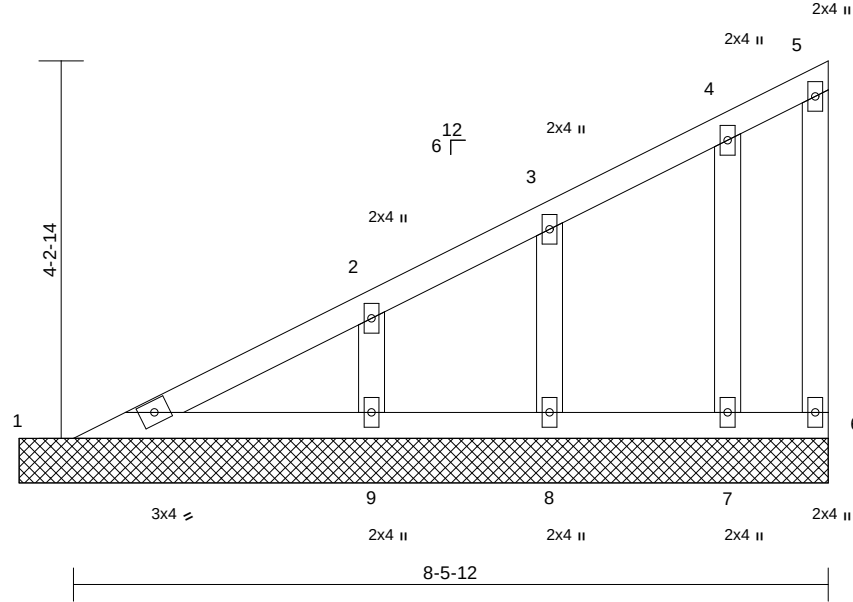
Job	Truss	Truss Type	Qty	Ply	
5251710	V03	Valley	2	1	Job Reference (optional)
T41930379					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30

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Scale = 1:25.9

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 41 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS	(size)	1=9-1-1, 6=9-1-1, 7=9-1-1, 8=9-1-1, 9=9-1-1
	Max Horiz	1=155 (LC 12)
	Max Uplift	6=-8 (LC 12), 7=-59 (LC 12), 8=-60 (LC 12), 9=-96 (LC 12)
	Max Grav	1=132 (LC 1), 6=14 (LC 1), 7=153 (LC 1), 8=103 (LC 1), 9=314 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	5-6=-14/20, 1-2=-247/89, 2-3=-152/45, 3-4=-78/31, 4-5=-20/4
BOT CHORD	1-9=-165/229, 8-9=0/0, 7-8=0/0, 6-7=0/0
WEBS	2-9=-192/188, 3-8=-96/147, 4-7=-107/130

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 6, 96 lb uplift at joint 9, 60 lb uplift at joint 8 and 59 lb uplift at joint 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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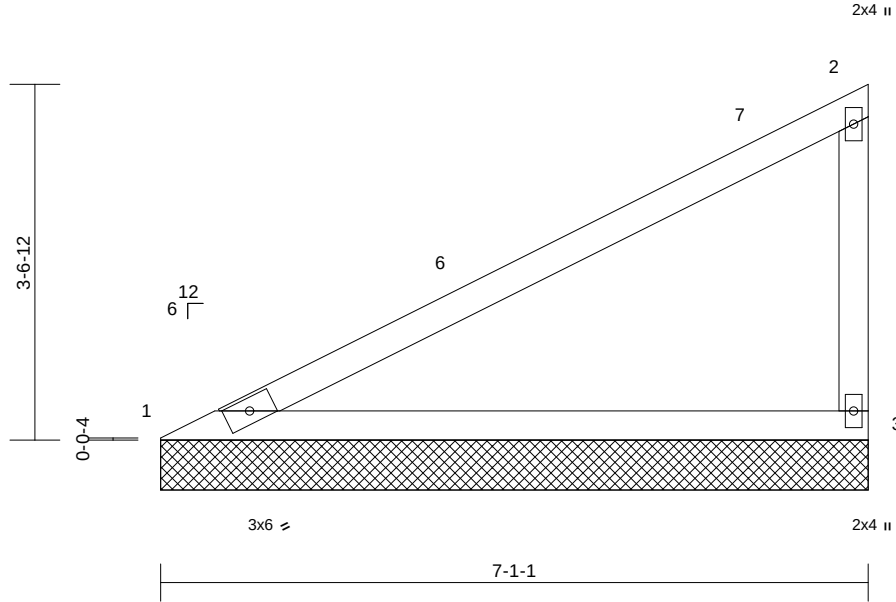
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Job	Truss	Truss Type	Qty	Ply	
5251710	V04	Valley	2	1	T41930380
Job Reference (optional)					

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Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30
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Scale = 1:23.1

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	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3 and 55 lb uplift at joint 1.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 1=7-1-1, 3=7-1-1
Max Horiz 1=123 (LC 12)
Max Uplift 1=-55 (LC 12), 3=-102 (LC 12)
Max Grav 1=278 (LC 1), 3=278 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-500/126, 2-3=-180/147
BOT CHORD 1-3=-249/442

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 6-11-13 zone;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.
- Gable requires continuous bottom chord bearing.
- 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.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 22,2026

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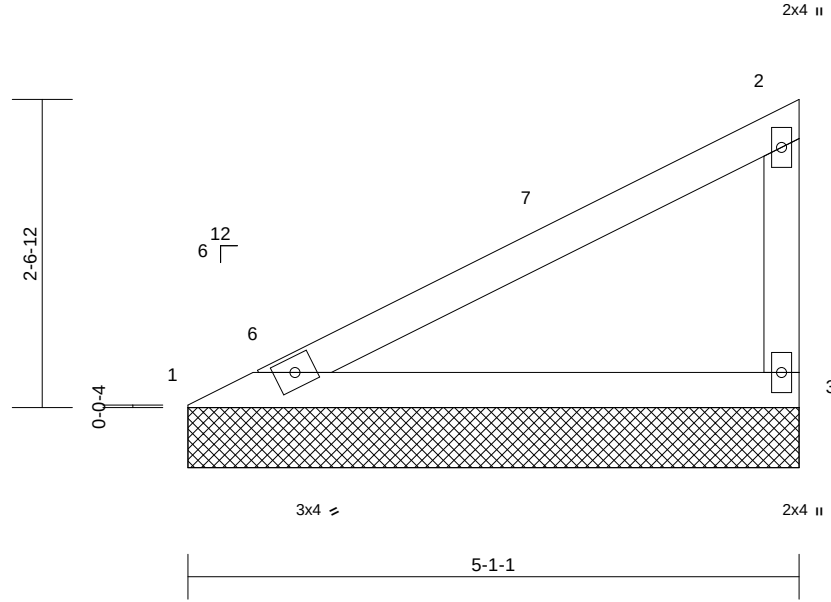
Job	Truss	Truss Type	Qty	Ply	
5251710	V05	Valley	2	1	T41930381
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 06:27:30

Page: 1

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Scale = 1:19.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 3 and 39 lb uplift at joint 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-1-1, 3=5-1-1
Max Horiz 1=90 (LC 12)
Max Uplift 1=-39 (LC 12), 3=-81 (LC 12)
Max Grav 1=198 (LC 1), 3=198 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-339/110, 2-3=-125/117
BOT CHORD 1-3=-211/297

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 4-11-13 zone;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.
- Gable requires continuous bottom chord bearing.
- 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.

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Chesterfield, MO 63017
Date:

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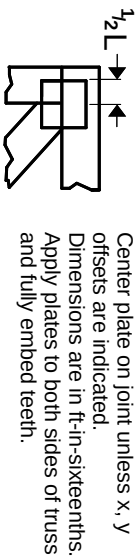
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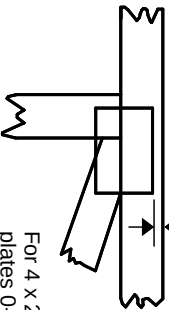
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Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



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

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

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

PLATE SIZE

4 X 4

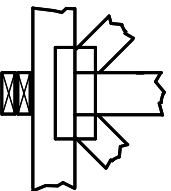
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

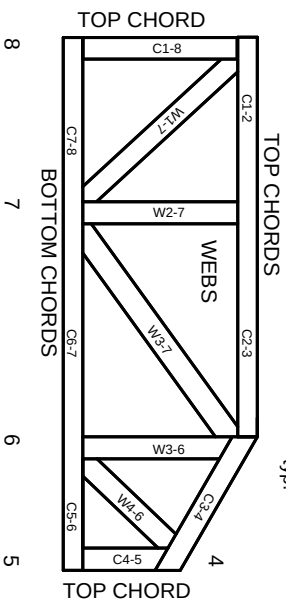
Industry Standards:

ANSI/TP1.1: 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 ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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