



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

RE: 5474865 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: STEVE AYOUB CONST. Project Name: Thiery 2 Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD NW 249th Street , N/A
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 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 33 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	T41452740	CJ01	6/8/26	15	T41452754	T05	6/8/26
2	T41452741	CJ02	6/8/26	16	T41452755	T06	6/8/26
3	T41452742	CJ03	6/8/26	17	T41452756	T07	6/8/26
4	T41452743	CJ04	6/8/26	18	T41452757	T08	6/8/26
5	T41452744	CJ05	6/8/26	19	T41452758	T09	6/8/26
6	T41452745	CJ06	6/8/26	20	T41452759	T10	6/8/26
7	T41452746	EJ01	6/8/26	21	T41452760	T11	6/8/26
8	T41452747	EJ02	6/8/26	22	T41452761	T12	6/8/26
9	T41452748	HJ01	6/8/26	23	T41452762	T13	6/8/26
10	T41452749	HJ02	6/8/26	24	T41452763	T14	6/8/26
11	T41452750	T01	6/8/26	25	T41452764	T15	6/8/26
12	T41452751	T01G	6/8/26	26	T41452765	T16	6/8/26
13	T41452752	T02	6/8/26	27	T41452766	T17	6/8/26
14	T41452753	T03	6/8/26	28	T41452767	T18	6/8/26



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

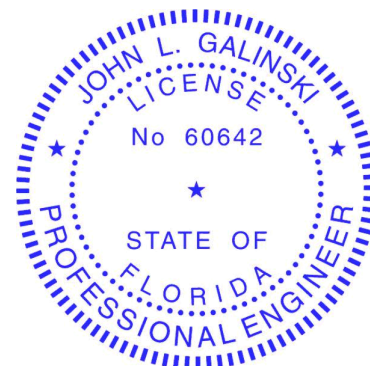
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: Galinski, John

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.



John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8, 2026

Galinski, John

1 of 2



RE: 5474865 -

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

Site Information:

Customer Info: STEVE AYOUB CONST. Project Name: Thiery 2 Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD NW 249th Street , N/A
City: High Springs, State: FL

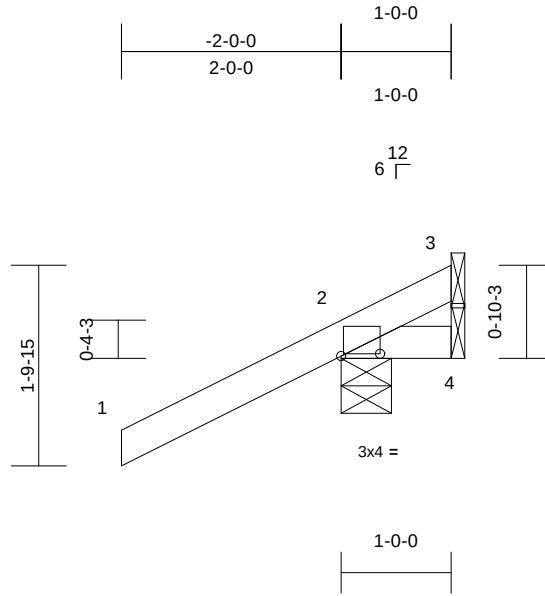
No.	Seal#	Truss Name	Date
29	T41452768	T19	6/8/26
30	T41452769	T20	6/8/26
31	T41452770	T21	6/8/26
32	T41452771	T22	6/8/26
33	T41452772	V01	6/8/26

Job	Truss	Truss Type	Qty	Ply	
5474865	CJ01	Jack-Open	6	1	T41452740
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:11
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Page: 1



Scale = 1:21

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.00	7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 7 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=66 (LC 12)
Max Uplift 2=-164 (LC 12), 3=-29 (LC 1), 4=-53 (LC 1)
Max Grav 2=281 (LC 1), 3=23 (LC 8), 4=43 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-205/87
BOT CHORD 2-4=-103/238

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3, 164 lb uplift at joint 2 and 53 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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

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

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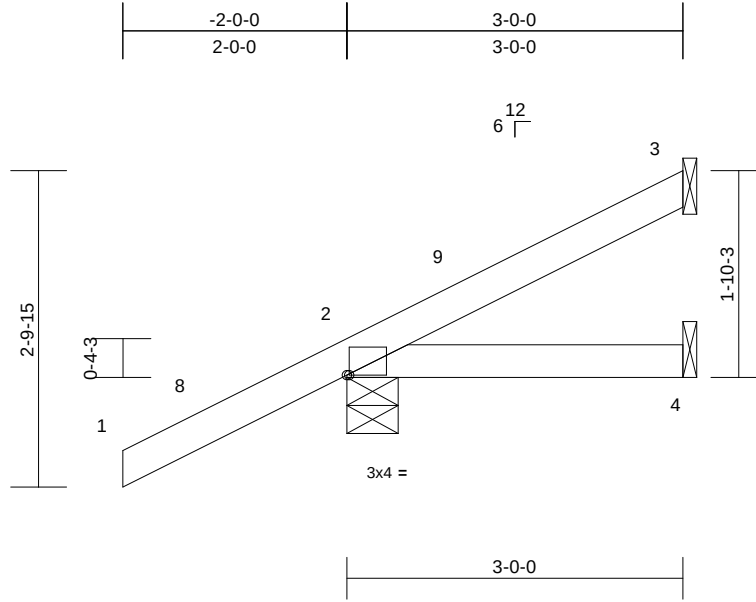
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5474865	CJ02	Jack-Open	6	1	T41452741
Job Reference (optional)					

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

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Page: 1



Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=113 (LC 12)
Max Uplift 2=-127 (LC 12), 3=-47 (LC 12)
Max Grav 2=278 (LC 1), 3=57 (LC 1), 4=47 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-293/92
BOT CHORD 2-4=-102/267

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 127 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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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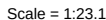


Plate Offsets (X, Y): [2:0-0-4,Edge]

LUMBER

BOT CHORD 2x4 SP No.2

BRACING

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

REACTIONS (size)

Max Horiz 2=162 (LC 12)

Max Grav 2=342 (LC 1), 3=119 (LC 1), 4=88 (LC 3)

FORCES

TOP CHORD 1-2=0/54, 2-3=-329/88

BOT CHORD 2-4=-75/242

NOTES

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 3, 138 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard

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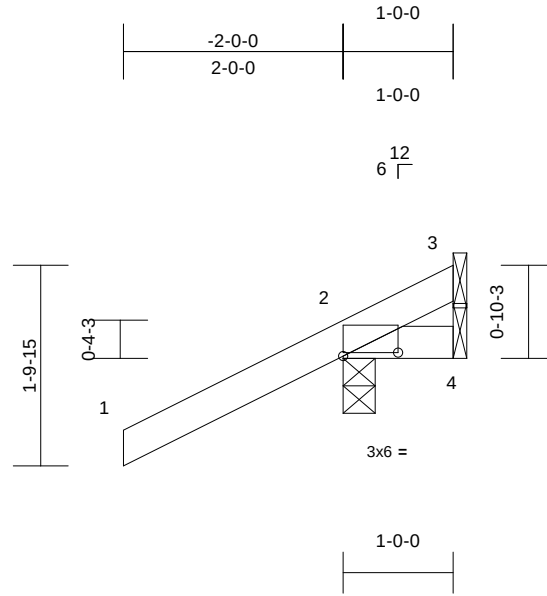
Job	Truss	Truss Type	Qty	Ply	
5474865	CJ04	Jack-Open	4	1	T41452743
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:12

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Scale = 1:21

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 7 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 29 lb uplift at joint 3, 164 lb uplift at joint 2 and 53 lb uplift at joint 4.

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling 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=66 (LC 12)
Max Uplift 2=-164 (LC 12), 3=-29 (LC 1), 4=-53 (LC 1)
Max Grav 2=281 (LC 1), 3=22 (LC 16), 4=43 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-200/87
BOT CHORD 2-4=-103/234

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingle Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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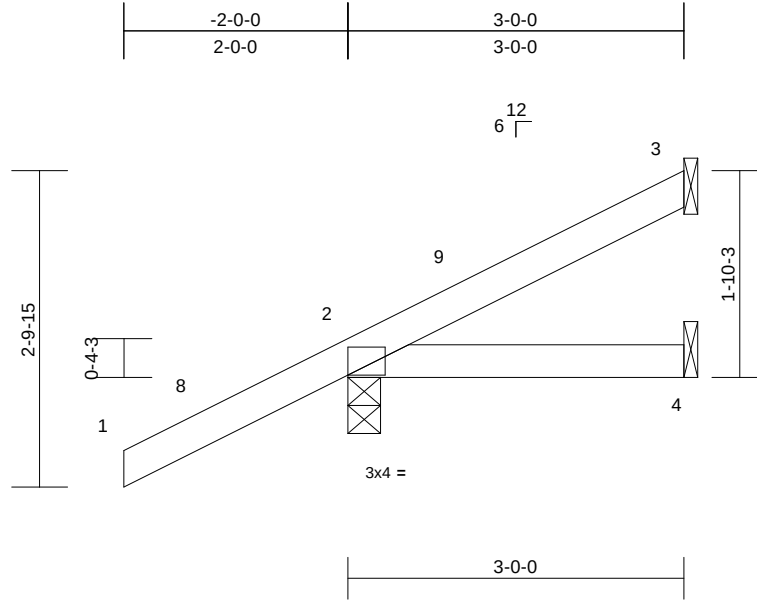
Job	Truss	Truss Type	Qty	Ply	
5474865	CJ05	Jack-Open	4	1	T41452744
Job Reference (optional)					

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

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Page: 1

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Scale = 1:20.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	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	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 13 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, 127 lb uplift at joint 2 and 22 lb uplift at joint 4.

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling 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=113 (LC 12)
Max Uplift 2=-127 (LC 12), 3=-47 (LC 12), 4=-22 (LC 9)
Max Grav 2=278 (LC 1), 3=57 (LC 1), 4=47 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-266/111
BOT CHORD 2-4=-102/250

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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
- 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.
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- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

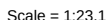
June 8,2026

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Page: 1

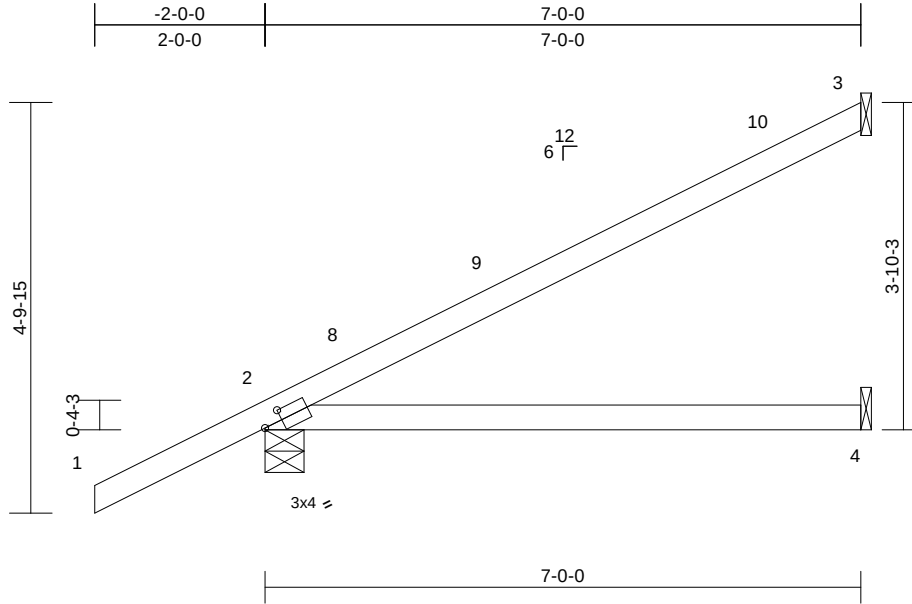
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Chesterfield, MO 63017
314.434.1200 / MiTek-USA.com

Job	Truss	Truss Type	Qty	Ply	
5474865	EJ01	Jack-Partial	22	1	T41452746
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:12
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Page: 1



Scale = 1:27.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.13	4-7	>630	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>375	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=204 (LC 12)
Max Uplift 2=-157 (LC 12), 3=-129 (LC 12), 4=-5 (LC 12)
Max Grav 2=415 (LC 1), 3=177 (LC 1), 4=127 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-339/78
BOT CHORD 2-4=-42/190

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 3, 157 lb uplift at joint 2 and 5 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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

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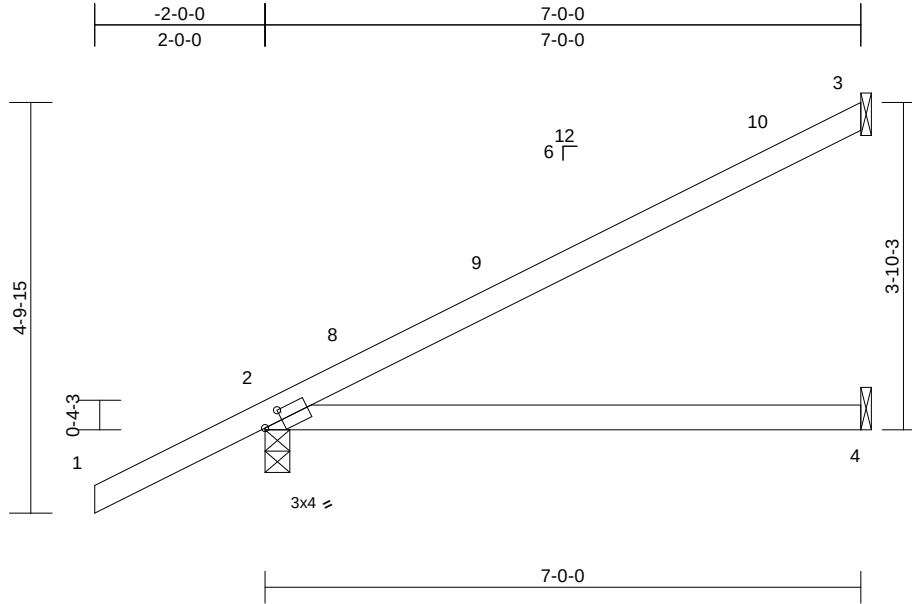
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5474865	EJ02	Jack-Partial	4	1	Job Reference (optional)
					T41452747

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:12
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Page: 1



Scale = 1:27.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.25	4-7	>332	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.22	4-7	>375	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=204 (LC 12)
Max Uplift 2=-157 (LC 12), 3=-129 (LC 12), 4=-64 (LC 9)
Max Grav 2=415 (LC 1), 3=177 (LC 1), 4=127 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-251/134
BOT CHORD 2-4=-42/152

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 3, 157 lb uplift at joint 2 and 64 lb uplift at joint 4.

LOAD CASE(S) Standard

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John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

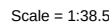
June 8,2026

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

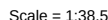
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Page: 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:12 Page: 1
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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 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-4-9, 4= Mechanical, 5= Mechanical
Max Horiz	2=227 (LC 4)
Max Uplift	2=-359 (LC 4), 4=-111 (LC 4), 5=-225 (LC 5)
Max Grav	2=481 (LC 1), 4=151 (LC 1), 5=284 (LC 3)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/57, 2-3=-661/461, 3-4=-79/41
BOT CHORD	2-7=-501/589, 6-7=-501/589, 5-6=0/0
WEBS	3-7=-100/211, 3-6=-624/531

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 4, 359 lb uplift at joint 2 and 225 lb uplift at joint 5.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
 Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
 Vert: 10=72 (F=36, B=36), 12=-68 (F=-34, B=-34), 14=82 (F=41, B=41), 15=6 (F=3, B=3), 16=-52 (F=-26, B=-26)

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, 2-5=-20
Concentrated Loads (lb)
Vert: 10=72 (F=36, B=36), 12=-68 (F=-34, B=-34),
14=82 (F=41, B=41), 15=6 (F=3, B=3), 16=-52
(F=-26, B=26)

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8.2026

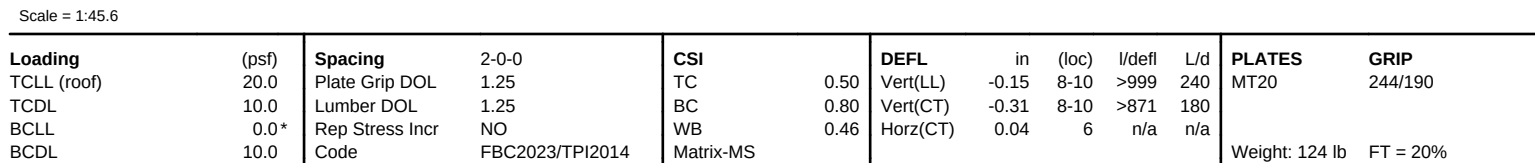


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- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 486 lb uplift at joint 2 and 486 lb uplift at joint 6.

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, 2-10=-20, 8-10=-80, 6-8=-20

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-2229/848, 3-4=-2218/985,
4-5=-2218/985, 5-6=-2229/849, 6-7=0/54

BOT CHORD 2-10=-664/1978, 8-10=-351/1282,
6-8=-640/1934

WEBS 4-10=-511/1137, 3-10=-332/294,
4-8=-510/1136, 5-8=-332/294

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-10-8, Zone1 0-10-8 to 11-1-0, Zone2 11-1-0 to 15-4-0, Zone1 15-4-0 to 24-2-0 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

June 8, 2026



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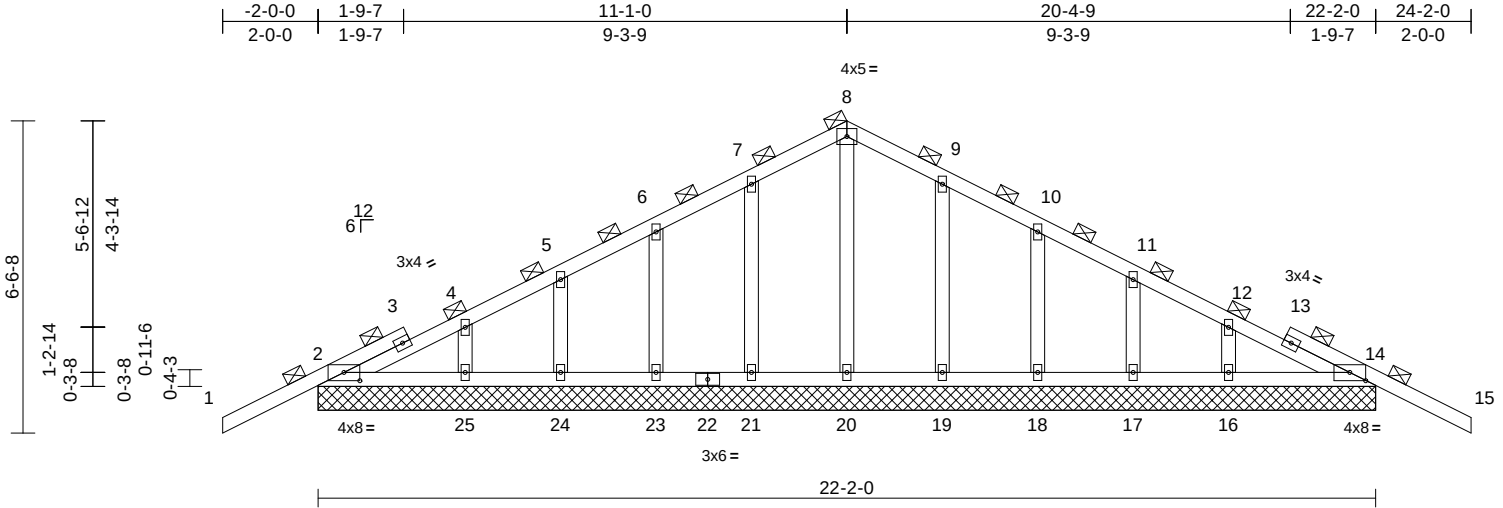
Job	Truss	Truss Type	Qty	Ply	
5474865	T01G	Common Supported Gable	1	1	T41452751
Job Reference (optional)					

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Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:13

Page: 1

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Scale = 1:48.3

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

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	29	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 118 lb FT = 20%											

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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size)
2=22-2-0, 14=22-2-0, 16=22-2-0,
17=22-2-0, 18=22-2-0, 19=22-2-0,
20=22-2-0, 21=22-2-0, 23=22-2-0,
24=22-2-0, 25=22-2-0
Max Horiz 2=131 (LC 12)
Max Uplift 2=102 (LC 12), 14=122 (LC 13),
16=81 (LC 13), 17=98 (LC 13),
18=93 (LC 13), 19=95 (LC 13),
21=97 (LC 12), 23=92 (LC 12),
24=99 (LC 12), 25=74 (LC 12)
Max Grav 2=275 (LC 1), 14=275 (LC 1),
16=177 (LC 1), 17=157 (LC 26),
18=159 (LC 1), 19=169 (LC 26),
20=172 (LC 22), 21=169 (LC 25),
23=159 (LC 1), 24=157 (LC 25),
25=177 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-4=-110/78, 4-5=-72/87,
5-6=-47/115, 6-7=-58/178, 7-8=-80/247,
8-9=-80/247, 9-10=-57/178, 10-11=-35/109,
11-12=-35/36, 12-14=-102/50, 14-15=0/54
BOT CHORD 2-25=-42/159, 24-25=-42/159, 23-24=-42/159,
21-23=-42/159, 20-21=-42/159,
19-20=-42/159, 18-19=-42/159,
17-18=-42/159, 16-17=-42/159,
14-16=-43/163

WEBS
8-20=-132/8, 7-21=-129/138, 6-23=-119/138,
5-24=-119/146, 4-25=-132/131,
9-19=-129/138, 10-18=-119/138,
11-17=-119/146, 12-16=-132/130

- 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 C; 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 122 lb uplift at joint 14, 97 lb uplift at joint 21, 92 lb uplift at joint 23, 99 lb uplift at joint 24, 74 lb uplift at joint 25, 95 lb uplift at joint 19, 93 lb uplift at joint 18, 98 lb uplift at joint 17, 81 lb uplift at joint 16, 102 lb uplift at joint 2 and 122 lb uplift at joint 14.

12) 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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16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

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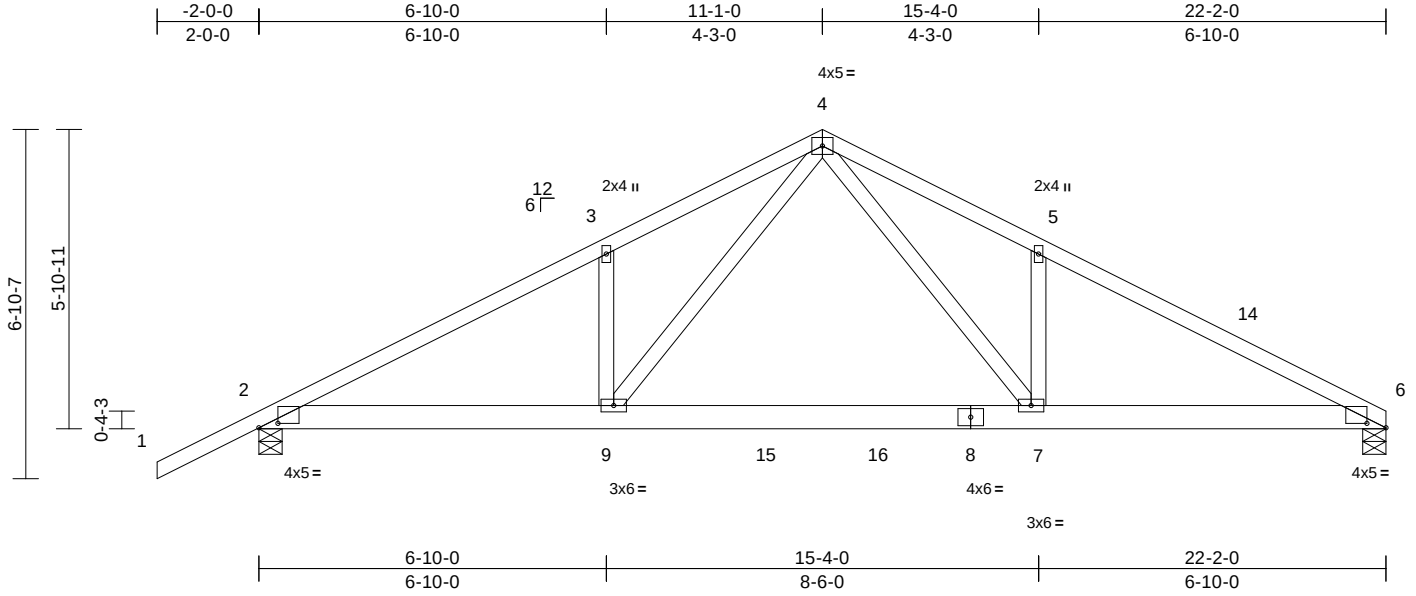
Job	Truss	Truss Type	Qty	Ply	
5474865	T02	Common	5	1	T41452752
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:13

Page: 1

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Scale = 1:45.3

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

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	0.54	Vert(LL)	0.16	7-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.30	7-9	>876	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 121 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 8-0-6 oc bracing.

REACTIONS

(size) 2=0-5-8, 6=0-5-8
Max Horiz 2=158 (LC 12)
Max Uplift 2=-488 (LC 12), 6=-415 (LC 13)
Max Grav 2=1286 (LC 2), 6=1177 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-2238/939, 3-4=-2226/1076, 4-5=-2249/1096, 5-6=-2258/973
BOT CHORD 2-9=-751/1965, 7-9=-432/1271, 6-7=-755/1962
WEBS 4-9=-521/1134, 3-9=-332/294, 4-7=-536/1161, 5-7=-338/299

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-10-8, Zone1 0-10-8 to 11-1-0, Zone2 11-1-0 to 15-4-0, Zone1 15-4-0 to 22-2-0 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 415 lb uplift at joint 6 and 488 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, 4-6=-60, 2-9=-20, 7-9=-80, 6-7=-20

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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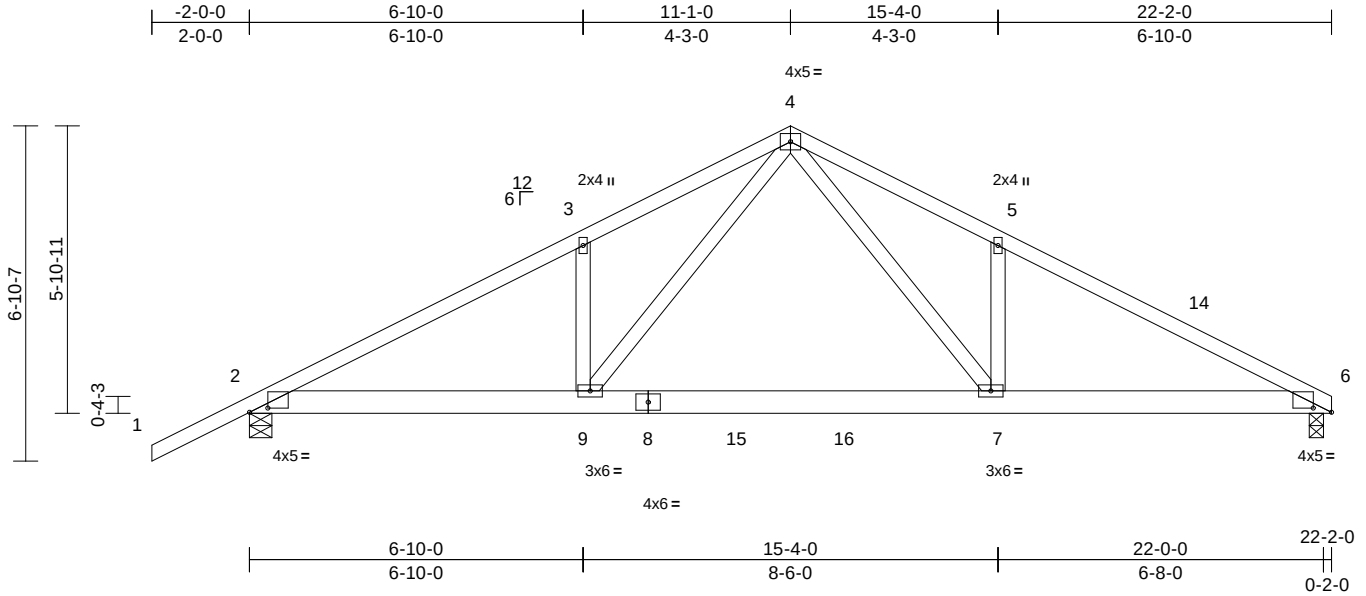
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5474865	T03	Common	1	1	T41452753
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:13
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Page: 1



Scale = 1:47.2

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

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	0.54	Vert(LL)	0.16	7-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.30	7-9	>876	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 121 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 8-0-6 oc bracing.

REACTIONS (size) 2=0-5-8, 6=0-3-8
Max Horiz 2=158 (LC 12)
Max Uplift 2=-488 (LC 12), 6=-415 (LC 13)
Max Grav 2=1286 (LC 2), 6=1177 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-2238/939, 3-4=-2226/1076,
4-5=-2249/1096, 5-6=-2258/973
BOT CHORD 2-9=-751/1965, 7-9=-432/1271,
6-7=-755/1962
WEBS 4-9=-521/1134, 3-9=-332/294, 4-7=-536/1161,
5-7=-338/299

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-10-8, Zone1 0-10-8 to 11-1-0, Zone2 11-1-0 to 15-4-0, Zone1 15-4-0 to 22-2-0 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 2 and 415 lb uplift at joint 6.

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, 4-6=-60, 2-9=-20, 7-9=-80, 6-7=-20

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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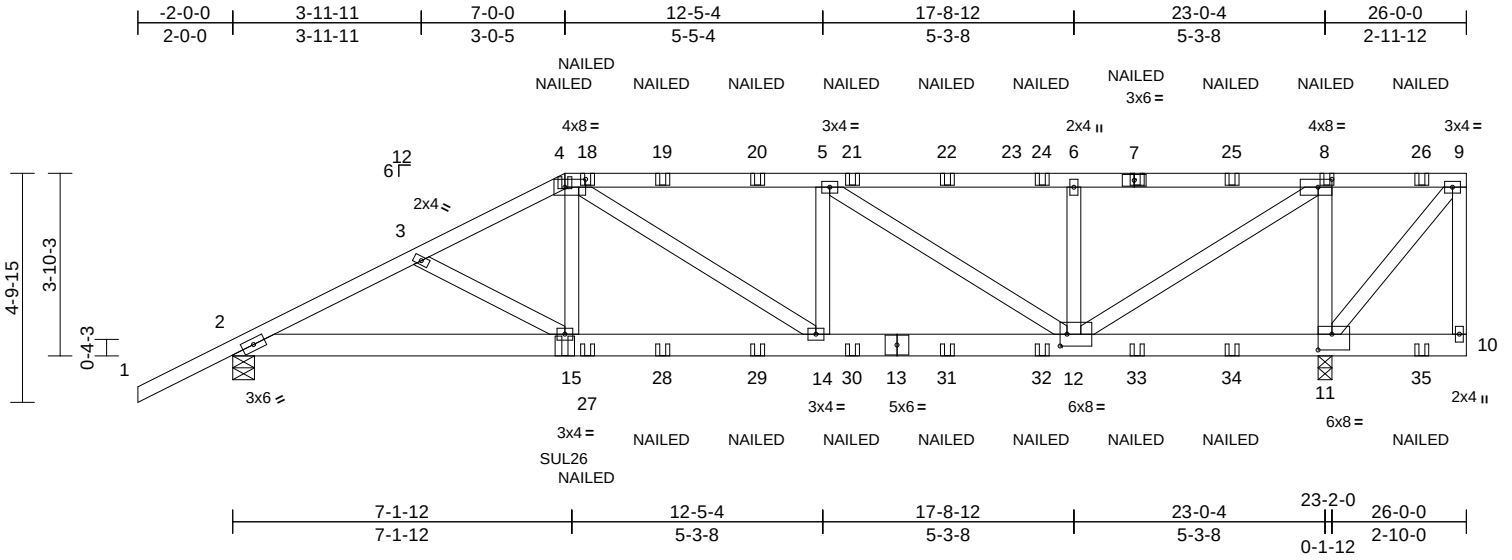
Job	Truss	Truss Type	Qty	Ply	
5474865	T05	Half Hip Girder	1	1	T41452754
Job Reference (optional)					

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

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Page: 1

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Scale = 1:48.6

Plate Offsets (X, Y): [4:0-5-4,0-2-0], [8:0-3-8,0-2-0], [11:0-3-8,0-4-0], [12:0-1-12,0-3-0]

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	0.82	Vert(LL)	0.16	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 7-4:2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 8-12,4-14,5-12:2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-9-6 oc bracing.

REACTIONS

(size)	2=0-5-8, 11=0-3-8
Max Horiz	2=213 (LC 27)
Max Uplift	2=-857 (LC 8), 11=-1279 (LC 5)
Max Grav	2=1789 (LC 1), 11=2458 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/54, 2-3=-3346/1618, 3-4=-3172/1549, 4-5=-3295/1646, 5-6=-2254/1095, 6-8=-2254/1095, 8-9=-53/83, 9-10=0/41
BOT CHORD	2-15=-1554/2963, 14-15=-1434/2840, 12-14=-1646/3295, 11-12=-83/53, 10-11=-1/1
WEBS	4-15=-184/707, 8-12=-1373/2794, 8-11=-2096/1153, 9-11=-132/86, 5-14=-36/250, 4-14=-337/593, 5-12=-1245/664, 6-12=-620/445, 3-15=-169/207

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 C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1279 lb uplift at joint 11 and 857 lb uplift at joint 2.
- Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-9=-60, 2-10=-20
Concentrated Loads (lb)
Vert: 4=-66 (F), 7=-117 (F), 15=-247 (F), 8=-117 (F), 18=-117 (F), 19=-117 (F), 20=-117 (F), 21=-117 (F), 22=-117 (F), 24=-117 (F), 25=-117 (F), 26=-123 (F), 27=-64 (F), 28=-64 (F), 29=-64 (F), 30=-64 (F), 31=-64 (F), 32=-64 (F), 33=-64 (F), 34=-64 (F), 35=-66 (F)

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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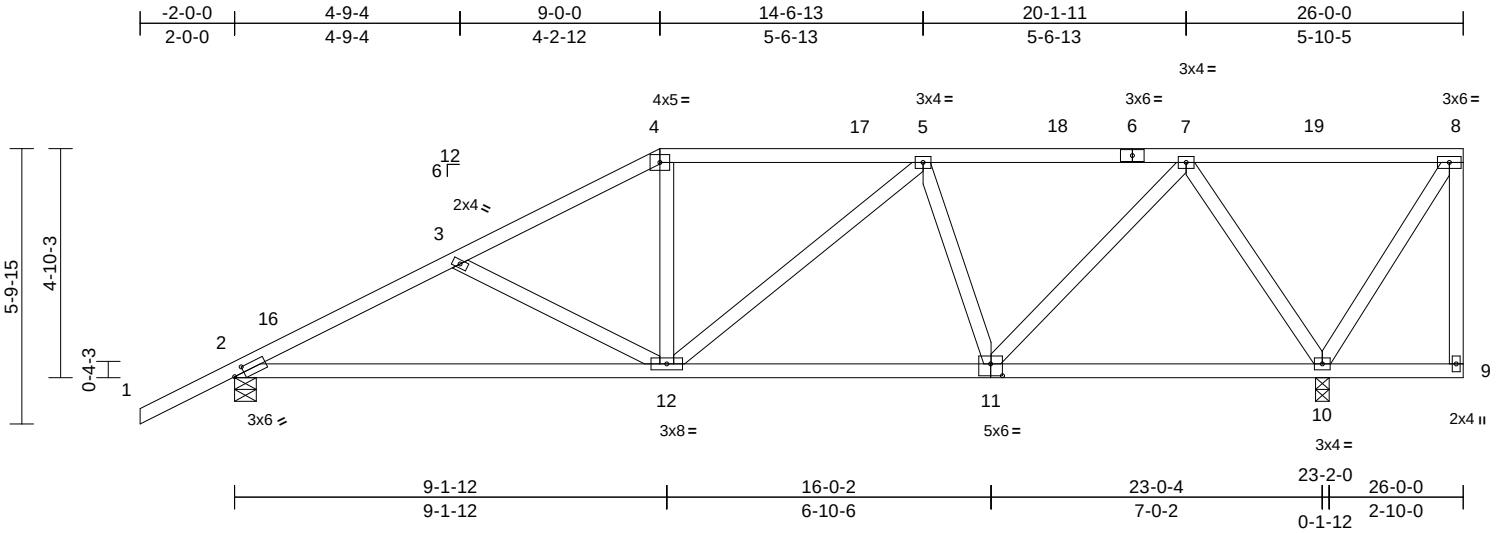
Job	Truss	Truss Type	Qty	Ply	
5474865	T06	Half Hip	1	1	T41452755
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:13

Page: 1

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Scale = 1:48.8									
Plate Offsets (X, Y): [2:0-2-9,0-1-8], [11:0-3-0,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.14	12-15	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.30	12-15	>932
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.04	10	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 143 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS (size) 2=0-5-8, 10=0-3-8
Max Horiz 2=262 (LC 12)
Max Uplift 2=-427 (LC 12), 10=-547 (LC 9)
Max Grav 2=1032 (LC 1), 10=1156 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-1580/639, 3-4=-1290/509, 4-5=-1105/501, 5-7=-942/387, 7-8=-80/83, 8-9=-53/6
BOT CHORD 2-12=-721/1385, 10-12=-467/1062, 9-10=-10/12
WEBS 3-12=-326/248, 4-12=-37/349, 5-12=-54/141, 5-11=-400/268, 7-11=-291/695, 7-10=-1043/494, 8-10=-179/169

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 547 lb uplift at joint 10 and 427 lb uplift at joint 2.

LOAD CASE(S) Standard

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 25-10-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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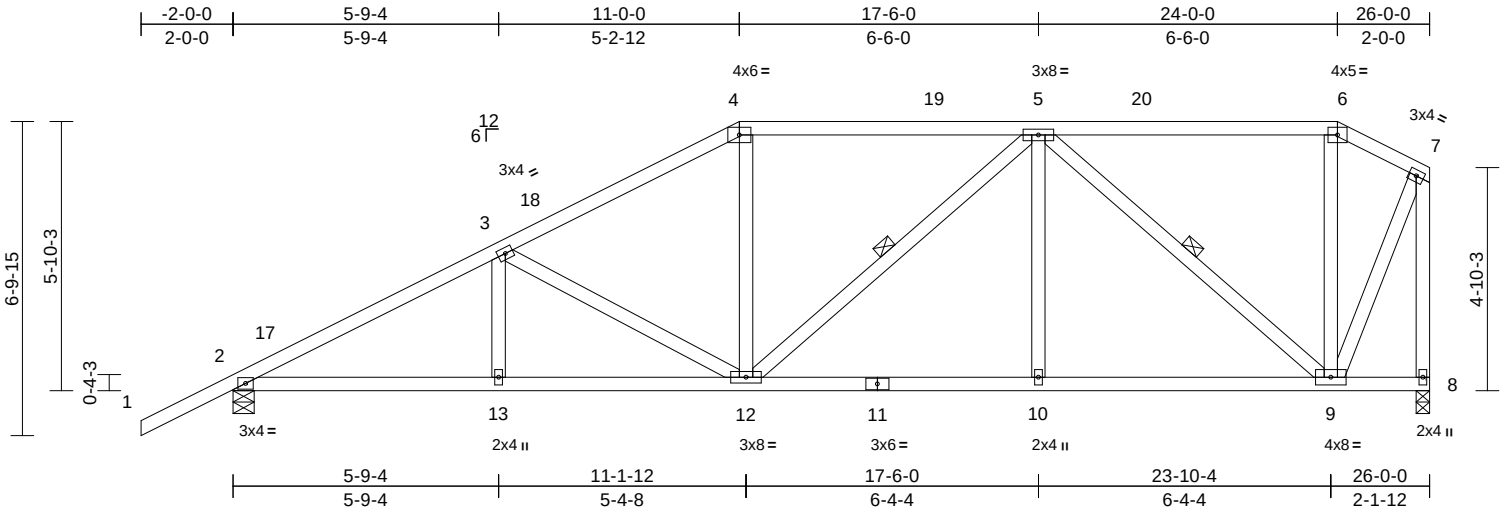
Job	Truss	Truss Type	Qty	Ply	T41452756
5474865	T07	Hip	1	1	Job Reference (optional)

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

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Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.07	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.14	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 157 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-9 oc bracing.
WEBS	1 Row at midpt 5-12, 5-9
REACTIONS	(size) 2=0-5-8, 8=0-3-8
	Max Horiz 2=284 (LC 12)
	Max Uplift 2=-461 (LC 12), 8=-352 (LC 9)
	Max Grav 2=1159 (LC 1), 8=1030 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/54, 2-3=-1872/679, 3-4=-1399/541, 4-5=-1190/535, 5-6=-360/167, 6-7=-413/157, 7-8=-1028/370
BOT CHORD	2-13=-768/1617, 12-13=-768/1617, 10-12=-426/1106, 9-10=-426/1106, 8-9=-2/3
WEBS	3-12=-494/296, 4-12=-50/347, 5-12=-130/163, 5-10=0/266, 5-9=-995/405, 6-9=-94/125, 7-9=-327/904, 3-13=0/221

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 24-0-0, Zone3 24-0-0 to 25-10-4 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.
 - 5) Provide adequate drainage to prevent water ponding.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 8 and 461 lb uplift at joint 2.
- LOAD CASE(S)** Standard

This item has been digitally signed and sealed by Galinski, John, 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.

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MiTek Inc. DBA MiTek USA FL Cert 6634
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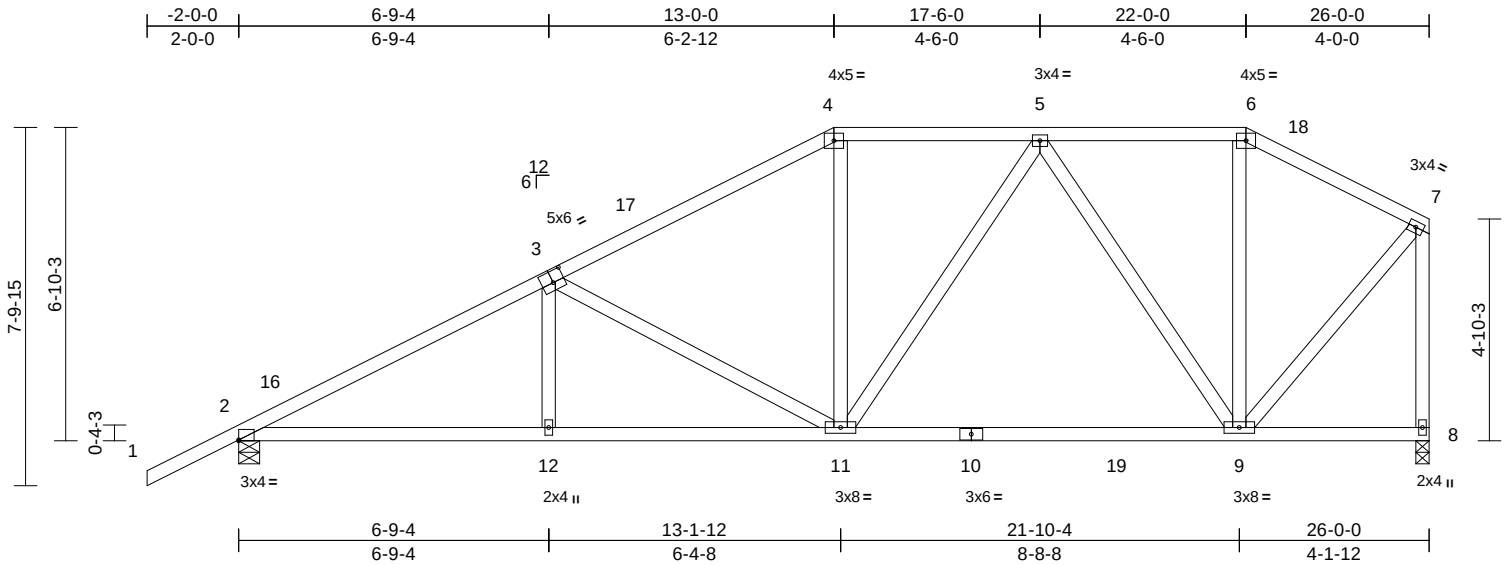
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5474865	T08	Hip	1	1	T41452757

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

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Scale = 1:50.3

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

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	0.48	Vert(LL)	-0.22	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.37	9-11	>838	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 155 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 8=0-3-8
Max Horiz 2=305 (LC 12)
Max Uplift 2=-456 (LC 12), 8=-322 (LC 12)
Max Grav 2=1218 (LC 2), 8=1127 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-4=-1959/653, 4-5=-1147/479, 5-6=-623/269, 6-7=-735/261, 7-8=-1113/387
BOT CHORD 2-12=-754/1701, 11-12=-754/1698, 9-11=-343/965, 8-9=-6/7
WEBS 3-12=0/253, 3-11=-640/375, 4-11=-46/334, 5-11=-148/371, 5-9=-634/313, 6-9=-24/153, 7-9=-272/941

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 8 and 456 lb uplift at joint 2.

LOAD CASE(S) Standard

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-6-0, Zone1 17-6-0 to 22-0-0, Zone3 22-0-0 to 25-10-4 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 item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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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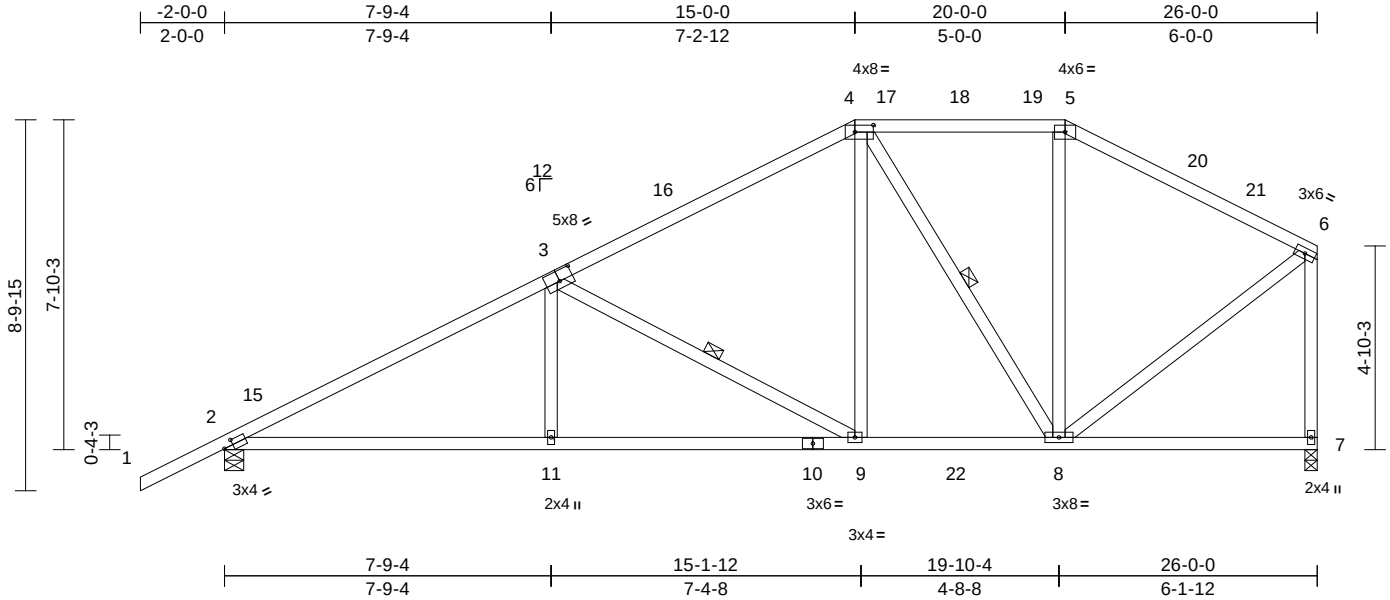
Job	Truss	Truss Type	Qty	Ply	
5474865	T09	Hip	1	1	T41452758
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:14

Page: 1

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Scale = 1:54.8

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

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	0.67	Vert(LL)	-0.13	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.25	11-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 154 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS 1 Row at midpt 3-9, 4-8

REACTIONS

(size) 2=0-5-8, 7=0-3-8
Max Horiz 2=327 (LC 12)
Max Uplift 2=-451 (LC 12), 7=-328 (LC 12)
Max Grav 2=1215 (LC 2), 7=1116 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-4=-1908/616, 4-5=-706/339, 5-6=-853/323, 6-7=-1021/399
BOT CHORD 2-11=-729/1646, 9-11=-730/1635, 8-9=-350/962, 7-8=-14/24
WEBS 3-11=0/335, 3-9=-785/438, 4-9=-170/603, 4-8=-506/248, 5-8=-87/147, 6-8=-263/860

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 25-10-4 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 7 and 451 lb uplift at joint 2.

LOAD CASE(S) Standard

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John L. Galinski PE No. 60642
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16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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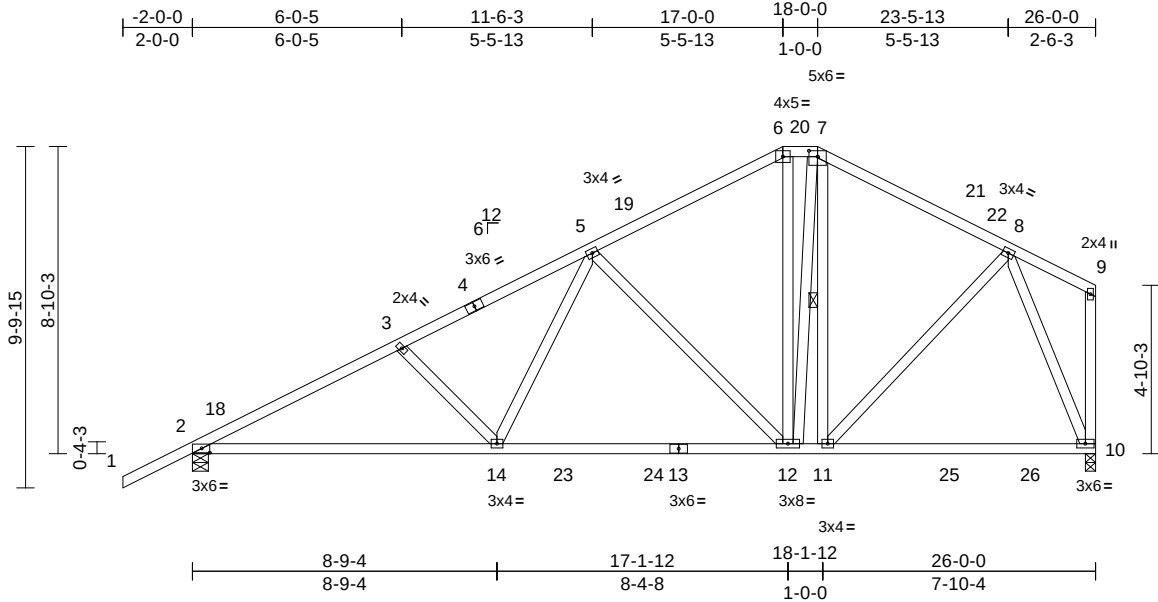
Job	Truss	Truss Type	Qty	Ply	
5474865	T10	Hip	1	1	T41452759
Job Reference (optional)					

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

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Page: 1

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Scale = 1:66.3

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [7:0-3-0,0-2-0]

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	0.39	Vert(LL)	-0.16	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	12-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 175 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, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-6-15 oc bracing.	
WEBS	1 Row at midpt	7-11
REACTIONS (size)		
	2=0-5-8, 10=0-3-8	
	Max Horiz 2=348 (LC 12)	
	Max Uplift 2=-444 (LC 12), 10=-334 (LC 12)	
	Max Grav 2=1228 (LC 2), 10=1144 (LC 2)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/54, 2-3=-1958/643, 3-5=-1763/584, 5-6=-949/366, 6-7=-792/376, 7-8=-910/359, 8-9=-31/47, 9-10=-29/16	
BOT CHORD	2-14=-795/1720, 12-14=-537/1256, 11-12=-235/757, 10-11=-150/419	
WEBS	3-14=-330/271, 5-14=-166/619, 5-12=-673/402, 6-12=-113/269, 7-12=-231/418, 7-11=-168/116, 8-11=-135/505, 8-10=-1058/405	

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone3 17-0-0 to 18-0-0, Zone2 18-0-0 to 22-2-15, Zone1 22-2-15 to 25-10-4 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 10 and 444 lb uplift at joint 2.

LOAD CASE(S) Standard

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John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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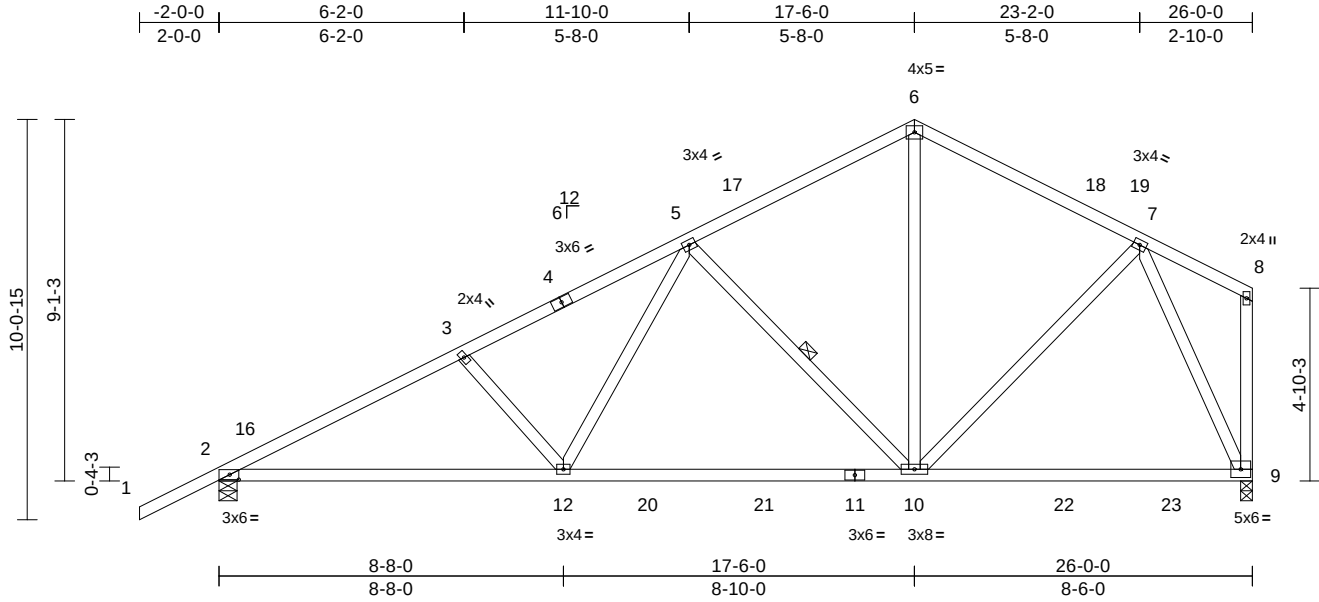
Job	Truss	Truss Type	Qty	Ply	
5474865	T11	Common	1	1	T41452760
Job Reference (optional)					

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

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Page: 1

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Scale = 1:58

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.18	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.31	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 153 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-0 oc bracing.
WEBS 1 Row at midpt 5-10

REACTIONS

(size) 2=0-5-8, 9=0-3-8
Max Horiz 2=352 (LC 12)
Max Uplift 2=-443 (LC 12), 9=-336 (LC 12)
Max Grav 2=1231 (LC 2), 9=1151 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-1963/635, 3-5=-1780/591, 5-6=-935/386, 6-7=-933/405, 7-8=-39/49, 8-9=-43/56
BOT CHORD 2-12=-792/1722, 10-12=-526/1232, 9-10=-176/456
WEBS 7-9=-1056/432, 5-12=-186/641, 3-12=-335/276, 5-10=-668/414, 6-10=-151/508, 7-10=-128/492

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-6-0, Zone2 17-6-0 to 21-8-15, Zone1 21-8-15 to 25-10-4 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 336 lb uplift at joint 9 and 443 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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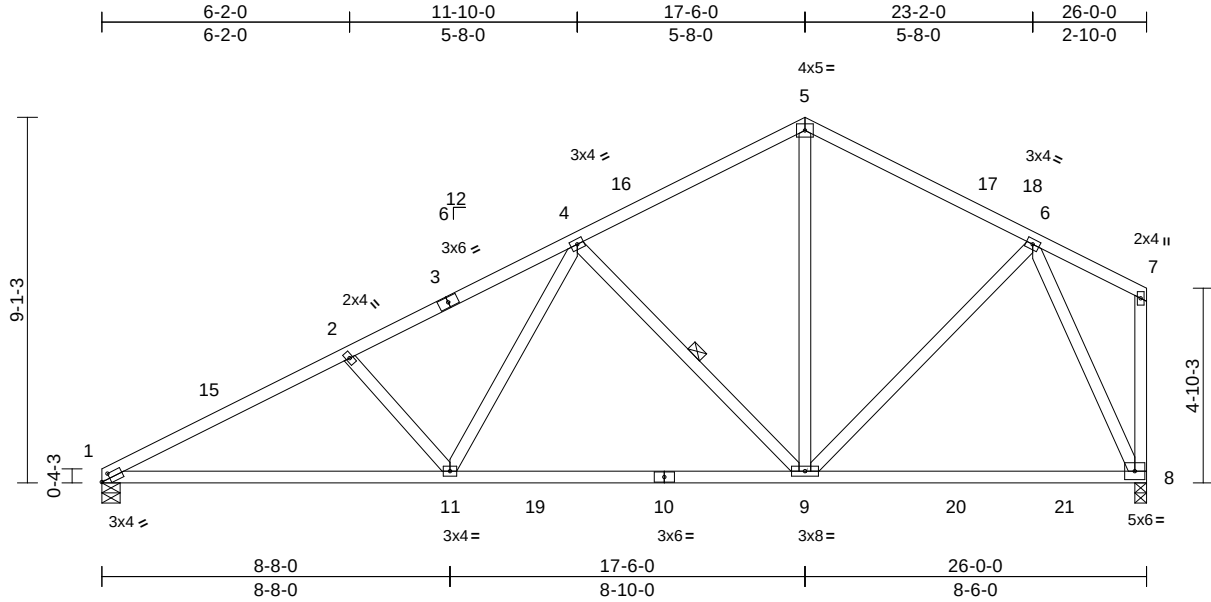
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5474865	T12	Common	2	1	T41452761

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Page: 1



Scale = 1:57.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.17	8-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.30	8-9	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 149 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, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-4-7 oc bracing.	
WEBS	1 Row at midpt 4-9	
REACTIONS		(size) 1=0-5-8, 8=0-3-8
	Max Horiz	1=311 (LC 12)
	Max Uplift	1=-373 (LC 12), 8=-339 (LC 12)
	Max Grav	1=1129 (LC 2), 8=1157 (LC 2)
FORCES		(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-1992/658, 2-4=-1808/611, 4-5=-942/393, 5-6=-940/407, 6-7=-39/49, 7-8=-43/56	
BOT CHORD	1-11=-817/1755, 9-11=-534/1245, 8-9=-177/459	
WEBS	6-8=-1062/434, 4-11=-204/663, 2-11=-352/288, 4-9=-678/422, 5-9=-153/513, 6-9=-130/496	

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 17-6-0, Zone2 17-6-0 to 21-8-15, Zone1 21-8-15 to 25-10-4 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 373 lb uplift at joint 1 and 339 lb uplift at joint 8.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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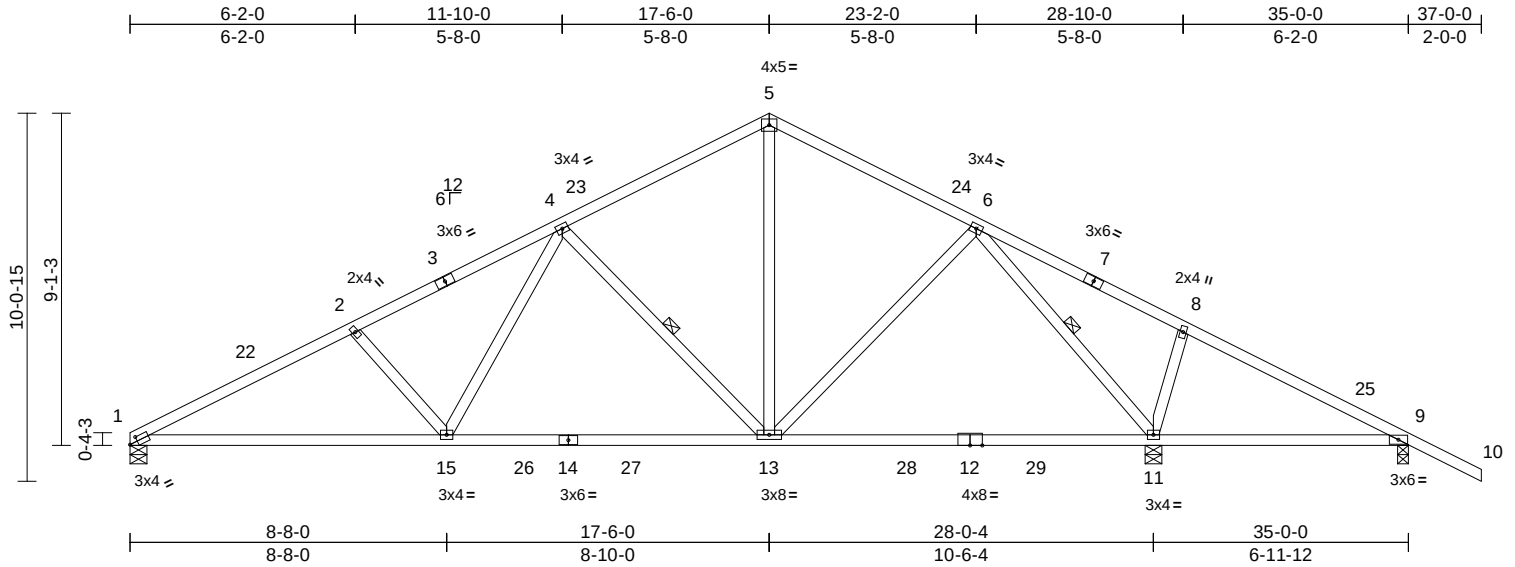
Job	Truss	Truss Type	Qty	Ply	
5474865	T13	Common	1	1	T41452762
Job Reference (optional)					

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

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Page: 1

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Scale = 1:63.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.34	11-13	>979	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.56	11-13	>600	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 12-14:2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc
bracing.
WEBS 1 Row at midpt 6-11, 4-13

REACTIONS (size) 1=0-5-8, 9=0-3-8, 11=0-5-8
Max Horiz 1=-226 (LC 17)
Max Uplift 1=-390 (LC 12), 9=-155 (LC 8),
11=-515 (LC 13)
Max Grav 1=1160 (LC 2), 9=272 (LC 26),
11=1861 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-2056/710, 2-4=-1872/673,
4-5=-1021/456, 5-6=-1021/454, 6-8=-104/545,
8-9=-153/455, 9-10=0/54
BOT CHORD 1-15=-705/1852, 13-15=-422/1352,
11-13=-83/583, 9-11=-338/224
WEBS 5-13=-190/589, 6-13=-72/463,
6-11=-1551/491, 8-11=-336/283,
4-13=-669/424, 4-15=-206/648,
2-15=-352/288

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 C; Enclosed; MWFRS (envelope) exterior (2) zone
and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 17-6-0,
Zone2 17-6-0 to 22-5-6, Zone1 22-5-6 to 37-0-0 zone;
porch 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 390 lb uplift at joint
1, 155 lb uplift at joint 9 and 515 lb uplift at joint 11.

LOAD CASE(S) Standard

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

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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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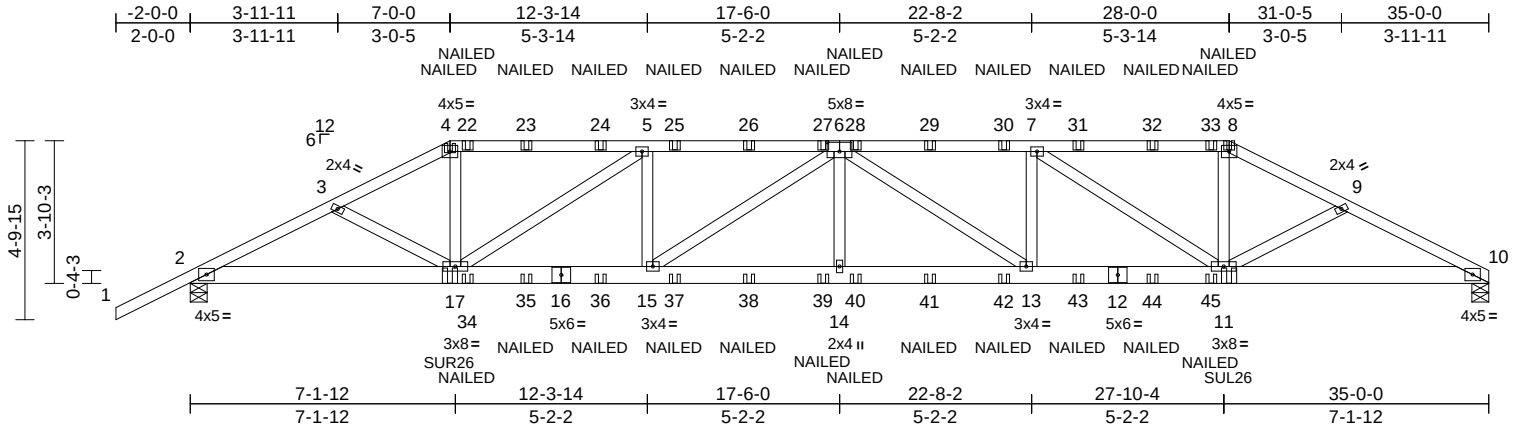
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5474865	T14	Hip Girder	1	2	T41452763
Job Reference (optional)					

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

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Page: 1



Scale = 1:62.1									
Plate Offsets (X, Y): [6:0-4-0-0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.33	14	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.50	14	>838
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.13	10	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 416 lb FT = 20%									

LUMBER		3)	Unbalanced roof live loads have been considered for this design.	Vert: 4=-66 (B), 8=-66 (B), 17=-247 (B), 11=-247 (B), 22=-117 (B), 23=-117 (B), 24=-117 (B), 25=-117 (B), 26=-117 (B), 27=-117 (B), 28=-117 (B), 29=-117 (B), 30=-117 (B), 31=-117 (B), 32=-117 (B), 33=-117 (B), 34=-64 (B), 35=-64 (B), 36=-64 (B), 37=-64 (B), 38=-64 (B), 39=-64 (B), 40=-64 (B), 41=-64 (B), 42=-64 (B), 43=-64 (B), 44=-64 (B), 45=-64 (B)
TOP CHORD	2x4 SP No.2	4)	Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.	
BOT CHORD	2x6 SP No.2	5)	Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60	
WEBS	2x4 SP No.3	6)	Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
BRACING		7)	Provide adequate drainage to prevent water ponding.	
TOP CHORD	Structural wood sheathing directly applied.	8)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
BOT CHORD	Rigid ceiling directly applied or 8-2-15 oc bracing.	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.	
REACTIONS	(size)	10)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1324 lb uplift at joint 10 and 1394 lb uplift at joint 2.	
	2=0-5-8, 10=0-5-8	11)	Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.	
	Max Horiz 2=116 (LC 8)	12)	Use Simpson Strong-Tie SUL26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 28-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.	
	Max Uplift 2=-1394 (LC 8), 10=-1324 (LC 9)	13)	Fill all nail holes where hanger is in contact with lumber.	
	Max Grav 2=2917 (LC 1), 10=2790 (LC 1)	14)	"NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.	
FORCES	(lb) - Maximum Compression/Maximum Tension	LOAD CASE(S)	Standard	
TOP CHORD	1-2=0/54, 2-3=-5873/2819, 3-4=-5710/2755, 4-5=-5172/2541, 5-7=-7278/3548, 7-8=-5198/2562, 8-9=-5740/2779, 9-10=-5915/2852	1)	Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
BOT CHORD	2-17=-2528/5217, 15-17=-3491/7269, 14-15=-3833/8000, 13-14=-3833/8000, 11-13=-3464/7278, 10-11=-2487/5260		Uniform Loads (lb/ft)	
WEBS	4-17=-861/2025, 8-11=-875/2042, 3-17=-150/216, 9-11=-170/230, 7-11=-2550/1295, 5-15=-257/795, 5-17=-2561/1305, 6-15=-910/482, 6-14=-13/496, 6-13=-902/476, 7-13=-252/791		Vert: 1-4=-60, 4-8=-60, 8-10=-60, 2-10=-20	
NOTES			Concentrated Loads (lb)	
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: 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.			
2)	All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.			

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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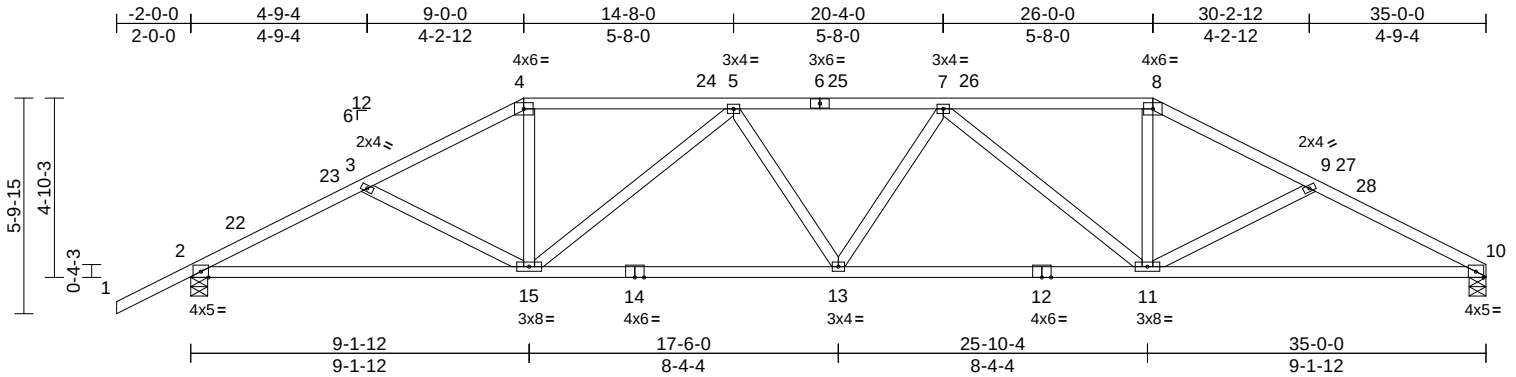
Job	Truss	Truss Type	Qty	Ply	
5474865	T15	Hip	1	1	T41452764
Job Reference (optional)					

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Page: 1

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Scale = 1:62.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.19	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.41	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 174 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.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
6-3-10 oc bracing: 2-15.

REACTIONS

(size) 2=0-5-8, 10=0-5-8
Max Horiz 2=137 (LC 12)
Max Uplift 2=-572 (LC 12), 10=-501 (LC 13)
Max Grav 2=1523 (LC 1), 10=1397 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-2668/955, 3-4=-2379/827,
4-5=-2095/790, 5-7=-2680/955,
7-8=-2109/803, 8-9=-2396/844,
9-10=-2693/984
BOT CHORD 2-15=-877/2343, 13-15=-908/2628,
11-13=-883/2633, 10-11=-815/2384
WEBS 3-15=-308/245, 4-15=-201/759,
5-15=-766/381, 5-13=-82/201, 7-13=-77/205,
7-11=-759/376, 8-11=-210/772, 9-11=-338/267

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-11-6, Zone1 13-11-6 to 26-0-0, Zone2 26-0-0 to 30-11-6, Zone1 30-11-6 to 35-0-0 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.
- 5) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 501 lb uplift at joint 10 and 572 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
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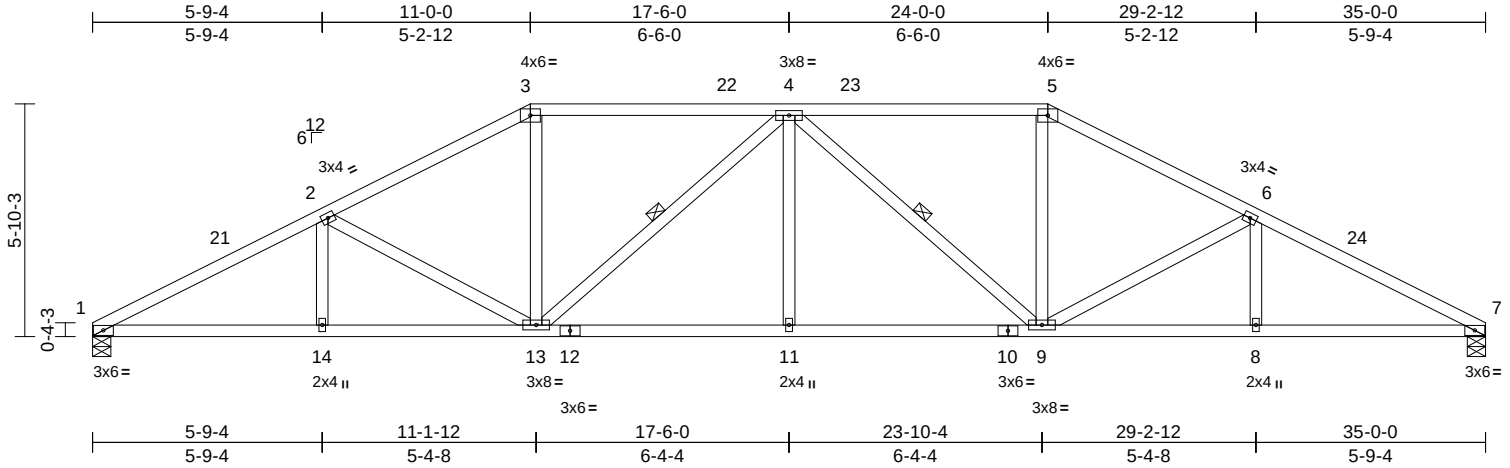
Job	Truss	Truss Type	Qty	Ply	
5474865	T16	Hip	1	1	T41452765
Job Reference (optional)					

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

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Page: 1

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Scale = 1:57.9

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	0.53	Vert(LL)	-0.16	11	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.33	11-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.13	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 181 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.
BOT CHORD Rigid ceiling directly applied or 6-1-15 oc bracing.

WEBS 1 Row at midpt 4-13, 4-9

REACTIONS

(size) 1=0-5-8, 7=0-5-8
Max Horiz 1=116 (LC 12)
Max Uplift 1=-499 (LC 12), 7=-499 (LC 13)
Max Grav 1=1400 (LC 1), 7=1400 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2713/946, 2-3=-2224/803,
3-4=-1936/766, 4-5=-1936/766,
5-6=-2224/803, 6-7=-2713/946
BOT CHORD 1-14=-883/2373, 13-14=-883/2373,
11-13=-667/2262, 9-11=-667/2262,
8-9=-767/2373, 7-8=-767/2373
WEBS 2-13=-519/318, 3-13=-191/651,
4-13=-544/252, 4-11=0/261, 4-9=-544/252,
5-9=-191/651, 6-9=-519/319, 2-14=0/221,
6-8=0/221

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 11-0-0, Zone2 11-0-0 to 15-11-6, Zone1 15-11-6 to 24-0-0, Zone2 24-0-0 to 29-2-12, Zone1 29-2-12 to 35-0-0 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 499 lb uplift at joint 1 and 499 lb uplift at joint 7.

LOAD CASE(S) Standard

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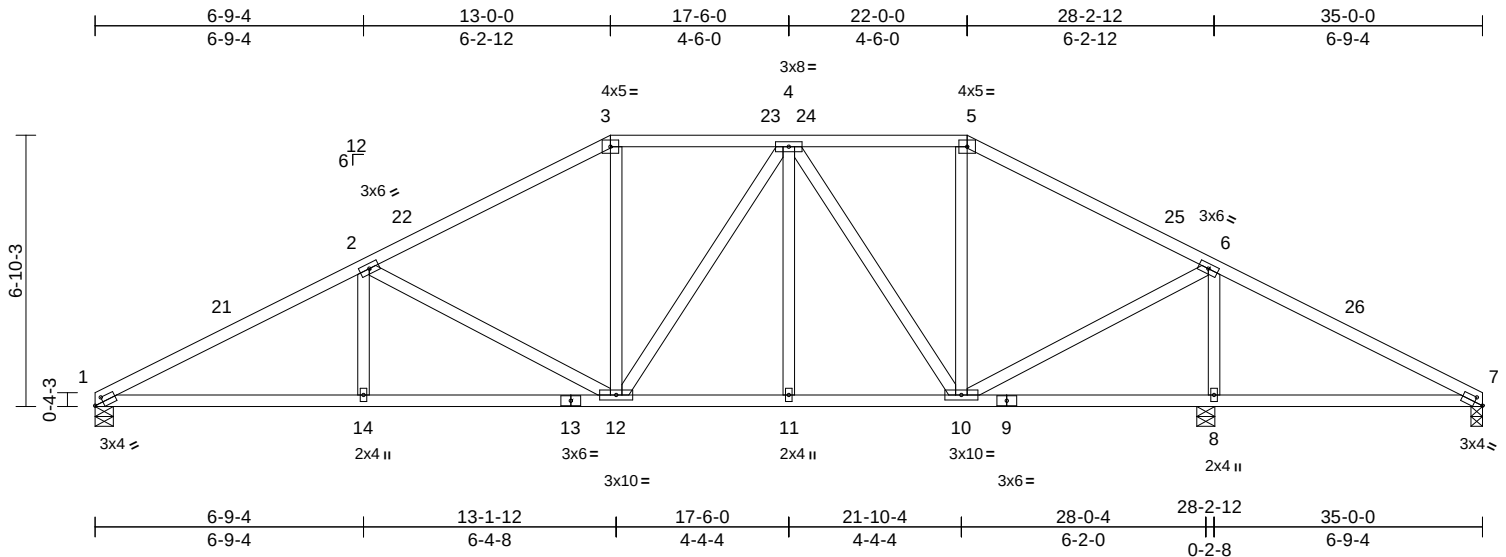
Job	Truss	Truss Type	Qty	Ply	
5474865	T17	Hip	1	1	T41452766
Job Reference (optional)					

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

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Page: 1

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Scale = 1:58.1									
Plate Offsets (X, Y): [1:0-2-10,0-1-8], [7:0-2-10,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.11 14-17	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.17 14-17	>999	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05 8	n/a	n/a
BCDL	10.0	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.3

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

REACTIONS (size) 1=0-5-8, 7=0-3-8, 8=0-5-8
Max Horiz 1=137 (LC 12)
Max Uplift 1=-406 (LC 12), 7=-76 (LC 25), 8=-528 (LC 13)
Max Grav 1=1076 (LC 1), 7=106 (LC 26), 8=1676 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1944/721, 2-3=-1342/526, 3-4=-1119/527, 4-5=-685/375, 5-6=-864/367, 6-7=-154/457
BOT CHORD 1-14=-692/1692, 12-14=-692/1692, 11-12=-284/1023, 10-11=-284/1023, 8-10=-354/173, 7-8=-354/173
WEBS 2-14=0/286, 2-12=-659/393, 3-12=-85/325, 4-10=-650/281, 5-10=-40/167, 6-10=-324/1135, 6-8=-1489/579, 4-11=0/150, 4-12=-140/214

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 13-0-0, Zone2 13-0-0 to 17-11-6, Zone1 17-11-6 to 22-0-0, Zone2 22-0-0 to 26-11-6, Zone1 26-11-6 to 35-0-0 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 406 lb uplift at joint 1, 76 lb uplift at joint 7 and 528 lb uplift at joint 8.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

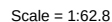
June 8,2026

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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Chesterfield, MO 63017
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[illegible]

LOAD CASE(S) Standard

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16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

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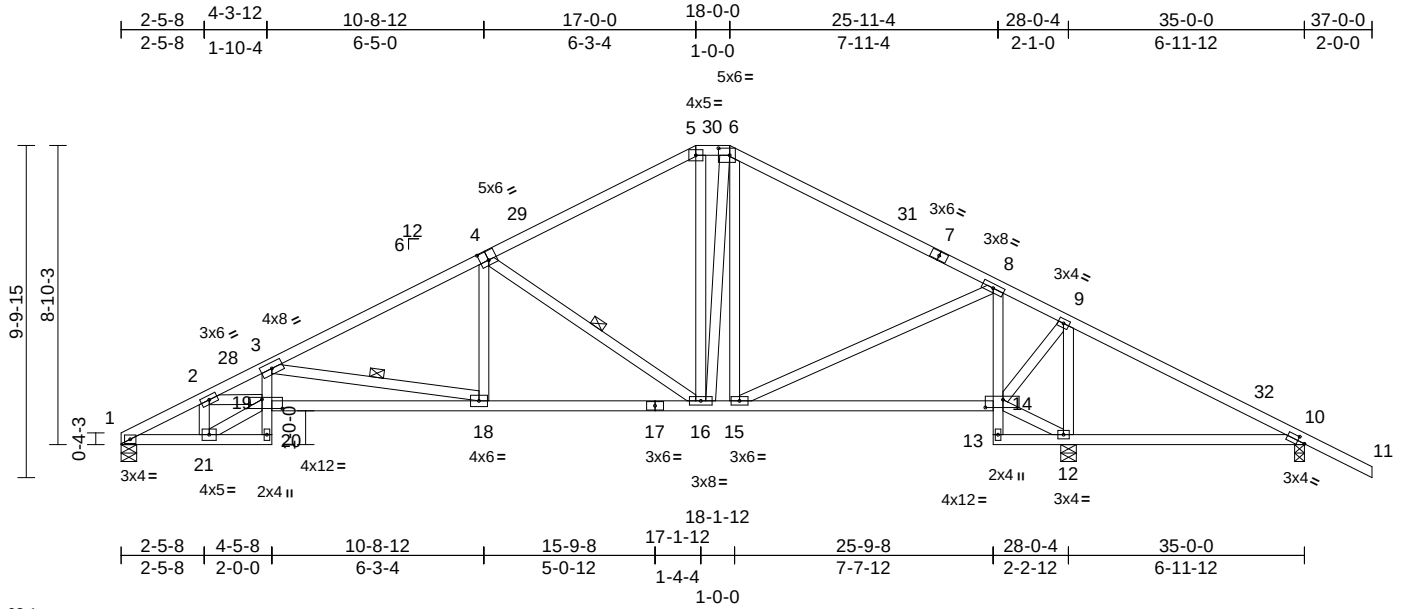
Job	Truss	Truss Type	Qty	Ply	
5474865	T19	Hip	1	1	T41452768
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:15

Page: 1

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Scale = 1:68.1

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [6:0-4-0,0-2-8], [10:0-2-10,0-1-8], [14:0-6-4,0-2-12], [19:0-7-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.20	18-19	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.36	18-19	>938	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.14	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 213 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 20-3,8-13:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-11-3 oc bracing.
WEBS 1 Row at midpt 3-18, 4-16

REACTIONS (size) 1=0-5-8, 10=0-3-8, 12=0-5-8
Max Horiz 1=-221 (LC 17)
Max Uplift 1=-366 (LC 12), 10=-269 (LC 25), 12=-603 (LC 12)
Max Grav 1=989 (LC 1), 10=110 (LC 12), 12=2043 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1909/695, 2-3=-3431/1379, 3-5=-1687/615, 5-6=-703/400, 6-8=-865/365, 8-9=-135/413, 9-10=-391/1148, 10-11=0/54
BOT CHORD 1-21=-739/1684, 20-21=-106/209, 19-20=-14/66, 3-19=-339/914, 18-19=-1429/3265, 16-18=-518/1434, 15-16=-86/674, 14-15=-347/228, 13-14=-73/99, 8-14=-1225/455, 12-13=-99/3, 10-12=-941/410
WEBS 3-18=-1854/924, 4-18=-113/506, 4-16=-898/496, 5-16=-192/298, 6-16=-233/406, 6-15=-245/170, 8-15=-342/1010, 12-14=-1022/482, 9-14=-253/984, 9-12=-1350/392, 2-21=-900/407, 2-19=-580/1375, 19-21=-737/1717

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 17-0-0, Zone3 17-0-0 to 18-0-0, Zone2 18-0-0 to 22-11-6, Zone1 22-11-6 to 37-0-0 zone; porch 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 1, 269 lb uplift at joint 10 and 603 lb uplift at joint 12.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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

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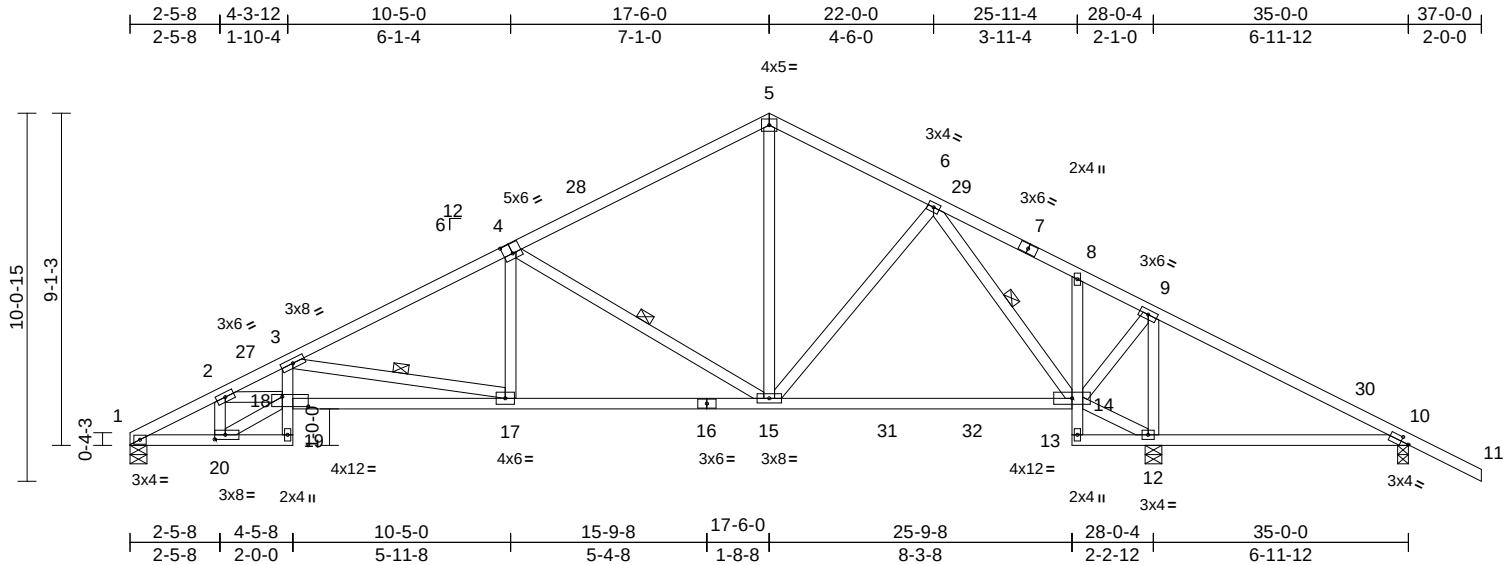
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5474865	T20	Roof Special	5	1	T41452769

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Thu Jun 04 15:44:15

Page: 1

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Scale = 1:63.1

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [10:0-2-10,0-1-8], [18:0-8-8,0-3-4], [20:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.21	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.39	17-18	>869	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 19-3,8-13:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc
bracing.
WEBS 1 Row at midpt 6-14, 4-15, 3-17

REACTIONS (size) 1=0-5-8, 10=0-3-8, 12=0-5-8
Max Horiz 1=-226 (LC 17)
Max Uplift 1=-358 (LC 12), 10=-340 (LC 19),
12=-635 (LC 12)
Max Grav 1=1044 (LC 2), 10=135 (LC 12),
12=2273 (LC 2)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-2014/737, 2-3=-3601/1344,
3-5=-1786/620, 5-6=-849/411, 6-8=-152/565,
8-9=-180/508, 9-10=-443/1338, 10-11=0/54
BOT CHORD 1-20=-733/1824, 19-20=-99/204,
18-19=-14/77, 3-18=-343/1054,
17-18=-1373/3470, 15-17=-541/1616,
14-15=0/424, 13-14=-90/100, 8-14=-65/59,
12-13=-162/18, 10-12=-1101/456
WEBS 6-14=-1416/498, 12-14=-1061/514,
9-14=-238/1068, 9-12=-1494/432,
2-20=-960/409, 2-18=-554/1458,
18-20=-738/1886, 4-17=-107/545,
4-15=-992/537, 5-15=-146/444,
6-15=-147/540, 3-17=-1889/847

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone
and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 17-6-0,
Zone2 17-6-0 to 22-5-6, Zone1 22-5-6 to 37-0-0 zone;
porch 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 358 lb uplift at joint
1, 340 lb uplift at joint 10 and 635 lb uplift at joint 12.

LOAD CASE(S) Standard

This item has been
digitally signed and
sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

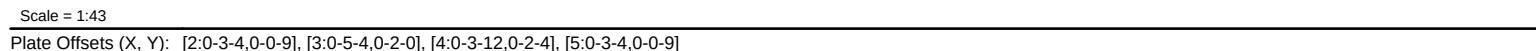
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LUMBER		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.
TOP CHORD	2x4 SP No.2 *Except* 3-4:2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 979 lb uplift at joint 2 and 978 lb uplift at joint 5.
BOT CHORD	2x6 SP No.2	9) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
WEBS	2x4 SP No.3	10) Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 12-4-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
BRACING		11) Fill all nail holes where hanger is in contact with lumber.
TOP CHORD	Structural wood sheathing directly applied.	12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
BOT CHORD	Rigid ceiling directly applied or 5-6-11 oc bracing.	13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
REACTIONS		
(size)	2=0-3-8, 5=0-3-8	
Max Horiz	2=95 (LC 8)	
Max Uplift	2=-979 (LC 8), 5=-978 (LC 9)	
Max Grav	2=1567 (LC 1), 5=1566 (LC 1)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/54, 2-3=-2759/1898, 3-4=-2419/1753, 4-5=-2760/1897, 5-6=0/54	
BOT CHORD	2-9=-1653/2395, 7-9=-1672/2418, 5-7=-1607/2395	
WEBS	3-9=-443/686, 3-7=-96/97, 4-7=-436/687	

- ## 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 C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left and right exposed; 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.
 - 5) Provide adequate drainage to prevent water ponding.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 979 lb uplift at joint 2 and 978 lb uplift at joint 5.
- 9) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7'-0" from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 10) Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 12'-4" from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) 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: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 3-6=66 (B), 4=-66 (B), 8=-64 (B), 9=-247 (B),
7=-247 (B), 14=-117 (B), 15=-117 (B), 17=-117 (B),
18=-117 (B), 19=-64 (B), 20=-64 (B), 21=-64 (B)

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8.2026



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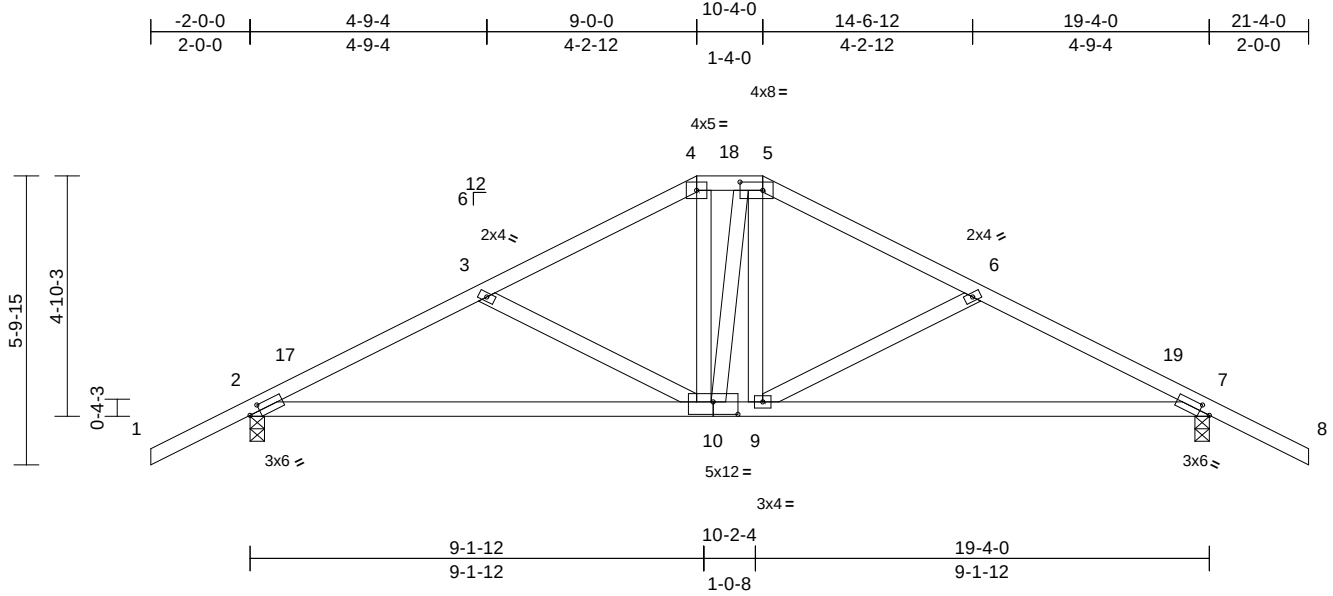
Job	Truss	Truss Type	Qty	Ply	
5474865	T22	Hip	1	1	T41452771
Job Reference (optional)					

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

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Page: 1

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Scale = 1:46.4									
Plate Offsets (X, Y): [2:0-2-9,0-1-8], [5:0-5-8,0-2-0], [7:0-2-9,0-1-8], [10:0-6-0,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.18	10-13	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	10-13	>813
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	7	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 101 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.
BOT CHORD	Rigid ceiling directly applied or 6-5-11 oc bracing.
REACTIONS	
(size)	2=0-3-8, 7=0-3-8
Max Horiz	2=116 (LC 12)
Max Uplift	2=-373 (LC 9), 7=-373 (LC 8)
Max Grav	2=893 (LC 1), 7=893 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/54, 2-3=-1280/900, 3-4=-974/743, 4-5=-828/716, 5-6=-981/750, 6-7=-1281/901, 7-8=0/54
BOT CHORD	2-9=-711/1119, 7-9=-738/1119
WEBS	3-10=-347/288, 4-10=-252/283, 5-10=-79/117, 5-9=-255/262, 6-9=-343/285

- 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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone3 9-0-0 to 10-4-0, Zone2 10-4-0 to 14-8-11, Zone1 14-8-11 to 21-4-0 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.
 - Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 2 and 373 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Galinski, John, 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.

John L. Galinski PE No. 60642
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Road, Chesterfield, MO 63017
Date:

June 8,2026

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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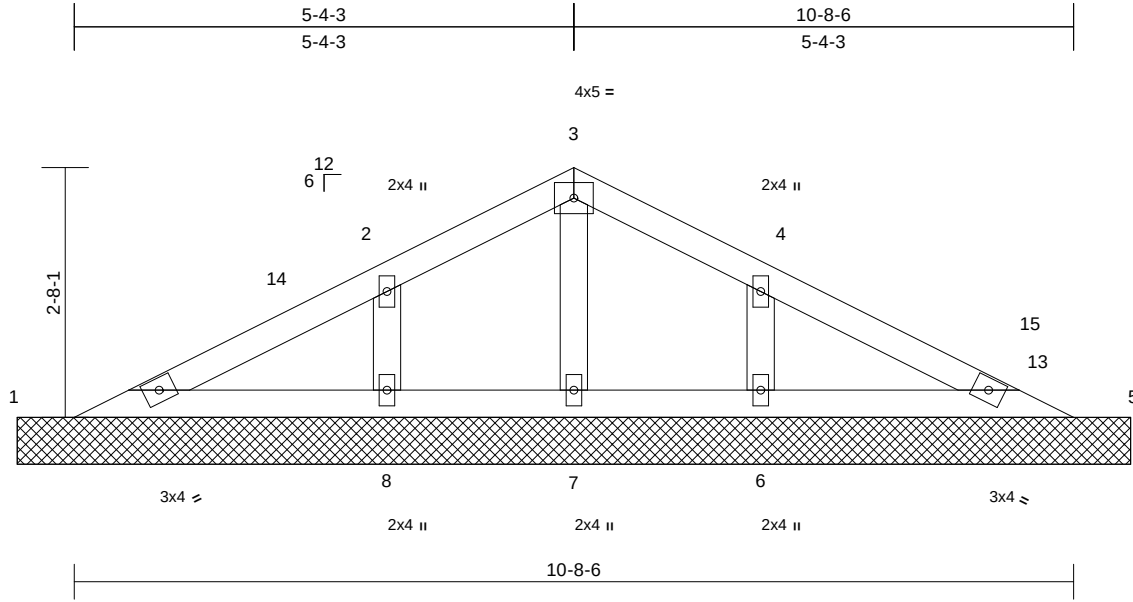
Job 5474865	Truss V01	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T41452772
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:24.7

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 38 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=11-11-0, 5=11-11-0, 6=11-11-0, 7=11-11-0, 8=11-11-0
Max Horiz 1=61 (LC 12)
Max Uplift 1=-28 (LC 12), 6=-144 (LC 13), 7=-30 (LC 12), 8=-156 (LC 12)
Max Grav 1=96 (LC 25), 5=40 (LC 26), 6=271 (LC 26), 7=220 (LC 1), 8=289 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-143/204, 2-3=-37/171, 3-4=-46/173, 4-5=-148/201
BOT CHORD 1-8=-143/170, 7-8=-143/170, 6-7=-143/170, 5-6=-143/170
WEBS 2-8=-186/221, 4-6=-178/213, 3-7=-220/110

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 C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 6-0-0, Zone2 6-0-0 to 10-1-6, Zone1 10-1-6 to 10-8-12 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 156 lb uplift at joint 8, 144 lb uplift at joint 6 and 30 lb uplift at joint 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard

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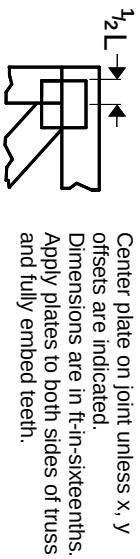
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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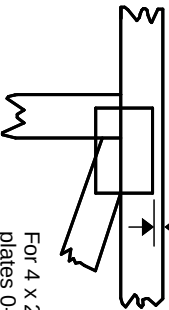
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Symbols

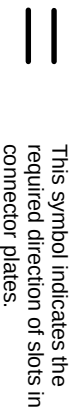
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

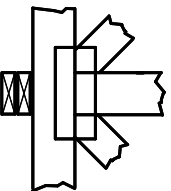
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

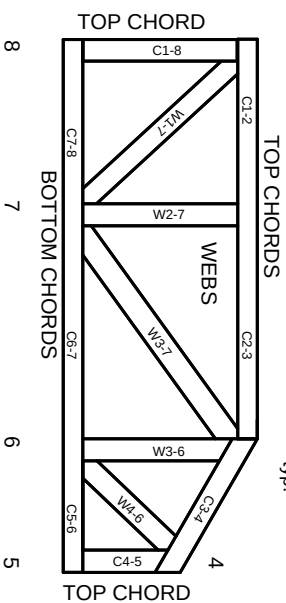
Industry Standards:

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.