

MiTek

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

#76117

RE: 5349971 -

MiTek, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
914.434.1200

Site Information:

Customer Info: JACKSON BLDG SUPPLY Project Name: Moulton Model: Croft Addition
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia City State: FL

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

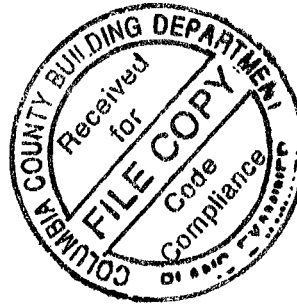
Name: License #:
Address:
City: State:

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

Design Code: FBC 2023/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 12 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
1	T40627617	CJ01	3/30/26
2	T40627618	CJ02	3/30/26
3	T40627619	CJ03	3/30/26
4	T40627620	EJ01	3/30/26
5	T40627621	HJ01	3/30/26
6	T40627622	T01	3/30/26
7	T40627623	T02	3/30/26
8	T40627624	T03	3/30/26
9	T40627625	T04	3/30/26
10	T40627626	T05	3/30/26
11	T40627627	T06	3/30/26
12	T40627628	T07	3/30/26

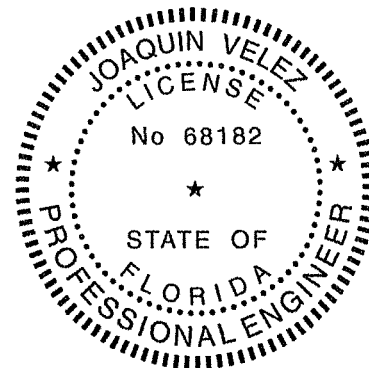


This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2027.

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



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

March 30, 2026

Velez, Joaquin

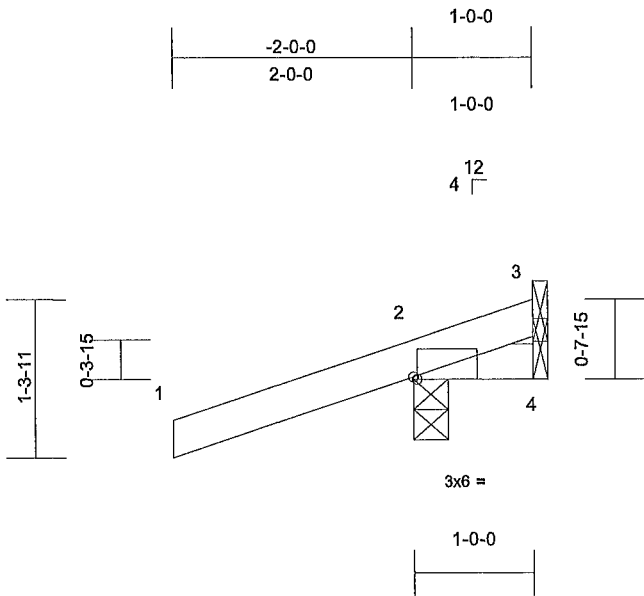
1 of 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5349971	CJ01	Jack-Open	8	1	T40627617

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

Run: 25.40 S Mar 12 2026 Print: 25.4 0 S Mar 12 2026 MITek Industries, Inc Fri Mar 27 15:04:43
ID:HrdlEM9bXw13Ycb284LD4tzXKyv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDol7J4zJC?f

Page: 1



Scale = 1/19.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0 00	7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 07	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: 6 lb	FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 2, 62 lb uplift at joint 4 and 20 lb uplift at joint 3

BRACING

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

LOAD CASE(S) Standard

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=59 (LC 8)
Max Uplift 2=-266 (LC 8), 3=-20 (LC 1), 4=-62 (LC 1)
Max Grav 2=281 (LC 1), 3=26 (LC 8), 4=70 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-164/68
BOT CHORD 2-4=-76/187

NOTES

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

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

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

March 30,2026

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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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

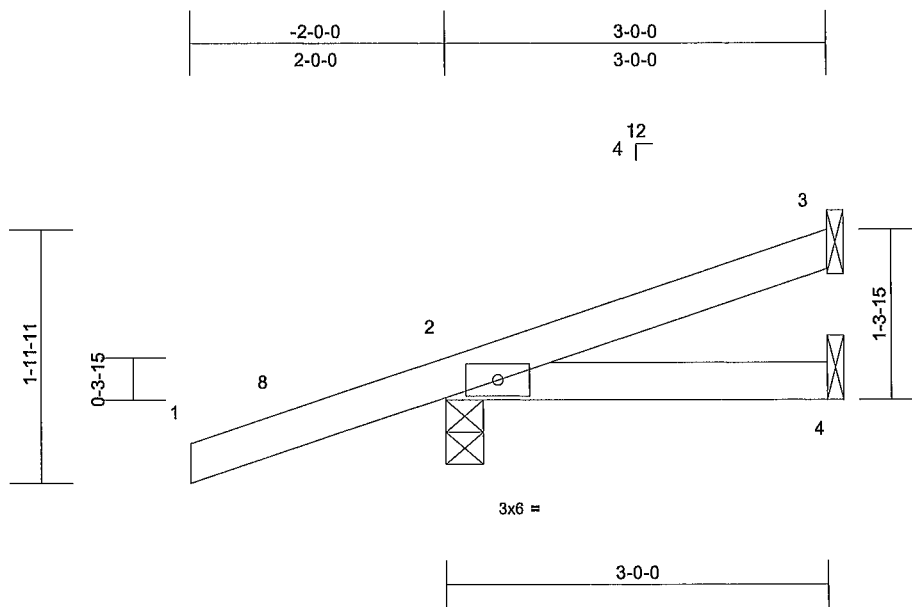
Job 5349971	Truss CJ02	Truss Type Jack-Open	Qty 8	Ply 1	Job Reference (optional) T40627618
----------------	---------------	-------------------------	----------	----------	---------------------------------------

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

Run: 25.40 S Mar 12 2026 Print: 25.4.0 S Mar 12 2026 MITek Industries, Inc. Fri Mar 27 15 04:44

Page 1

ID aBYOIF_u3w4theO32zssLzXKyo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWfCDol7J4zJC7f



Scale = 1/8"

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	4-7	>999	180	244/190
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: 12 lb	FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3, 232 lb uplift at joint 2 and 22 lb uplift at joint 4

BRACING

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

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=91 (LC 8)
Max Uplift 2=-232 (LC 8), 3=-38 (LC 12), 4=-22 (LC 9)
Max Grav 2=278 (LC 1), 3=55 (LC 1), 4=46 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-241/81
BOT CHORD 2-4=-76/229

NOTES

- 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 0-9-12, Zone1 0-9-12 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
- 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 20.0 psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections.

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

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

March 30, 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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

Mitek®

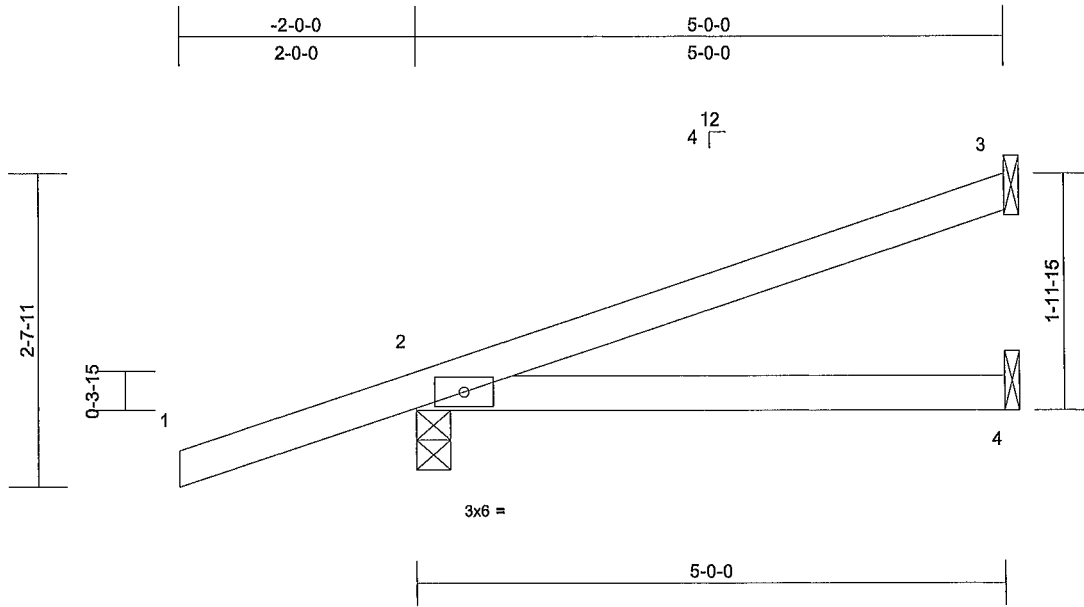
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MITek-US.com

Job 5349971	Truss CJ03	Truss Type Jack-Open	Qty 8	Ply 1	Job Reference (optional) T40627619
----------------	---------------	-------------------------	----------	----------	---------------------------------------

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

Run: 25.40 S Mar 12 2026 Print: 25.4 0 S Mar 12 2026 MITek Industries, Inc. Fri Mar 27 15 04:44
ID OLvfypJlTVgDbc5YPJ4G6czXKyl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC7f

Page: 1



Scale = 1/19.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 48	Vert(LL)	0 07	4-7	>877	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 28	Vert(CT)	0 06	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: 19 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4=
Mechanical
Max Horiz 2=123 (LC 8)
Max Uplift 2=-267 (LC 8), 3=-87 (LC 8), 4=-44
(LC 9)
Max Grav 2=342 (LC 1), 3=117 (LC 1), 4=86
(LC 3)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/38, 2-3=-218/72
BOT CHORD 2-4=-44/178

NOTES

- 1) 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 0-9-12, Zone1 0-9-12 to 4-11-4
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
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component
- 3) This truss has been designed for a 10 0 psf bottom chord
live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20 0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 87 lb uplift at joint
3, 267 lb uplift at joint 2 and 44 lb uplift at joint 4

LOAD CASE(S) Standard

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

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

March 30,2026

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

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

MITek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MITek-US.com

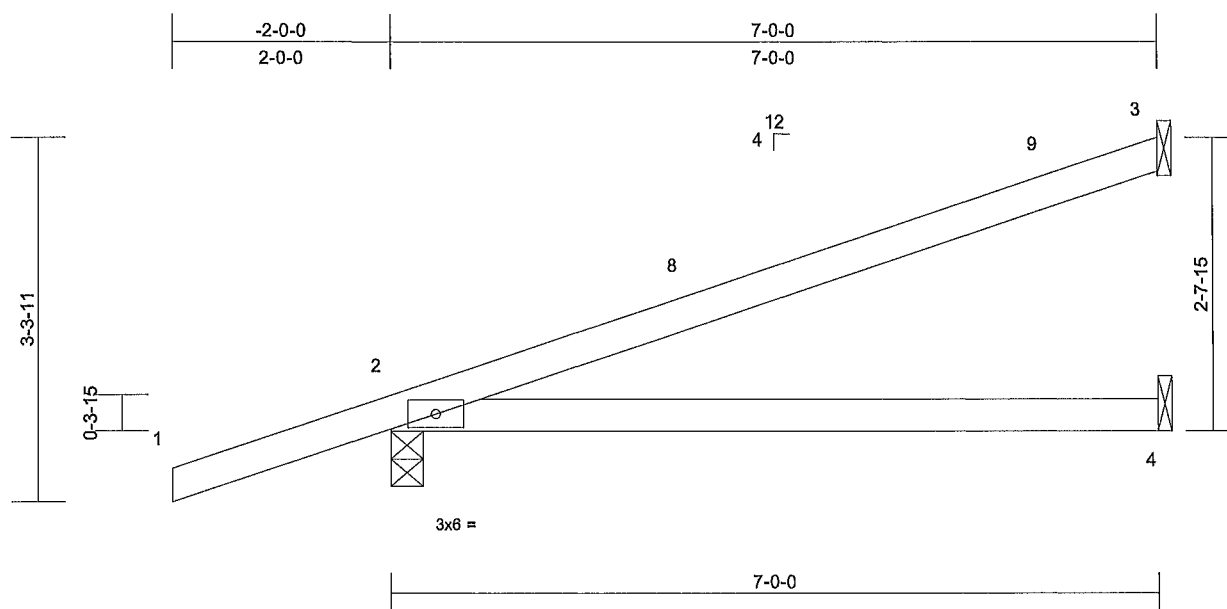
Job 5349971	Truss EJ01	Truss Type Jack-Partial	Qty 11	Ply 1	Job Reference (optional) T40627620
----------------	---------------	----------------------------	-----------	----------	---------------------------------------

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

Run: 25.40 S Mar 12 2026 Print: 25.4.0 S Mar 12 2026 MITek Industries, Inc. Fri Mar 27 15:04:44

Page: 1

ID:to?TkzX1ERxgmNT0T5OUqPzXKyQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDol7J4zJC?f



Scale = 1/2"

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.26	4-7	>319	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.22	4-7	>382	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: 25 lb	FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 3, 312 lb uplift at joint 2 and 68 lb uplift at joint 4

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
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=156 (LC 8)
Max Uplift 2=-312 (LC 8), 3=-133 (LC 8), 4=-68 (LC 8)
Max Grav 2=415 (LC 1), 3=176 (LC 1), 4=125 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-170/51
BOT CHORD 2-4=-93/106

NOTES

- 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 0-9-12, Zone1 0-9-12 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
- 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 20.0 psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections

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

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

March 30, 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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

Mitek®

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

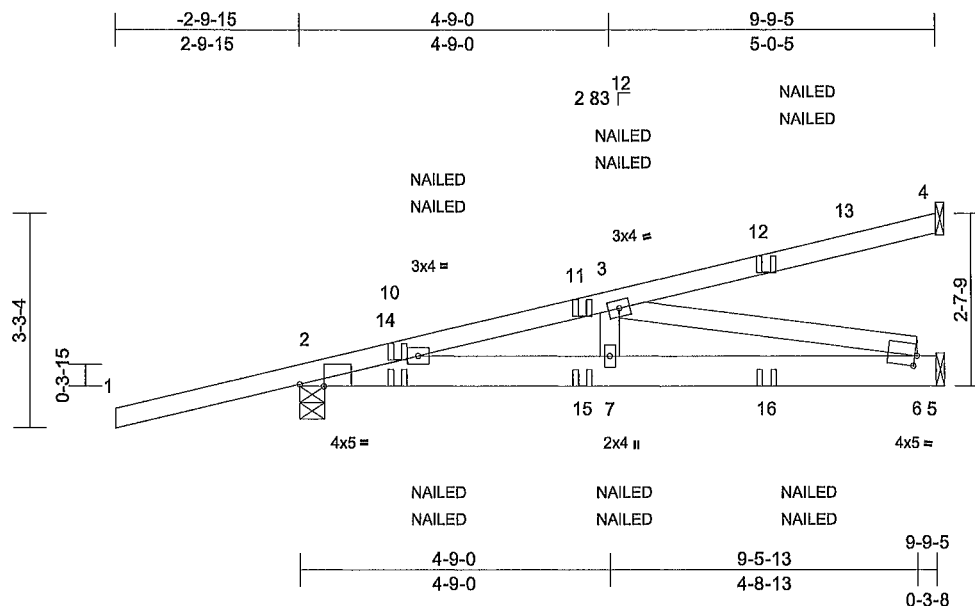
Job 5349971	Truss HJ01	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Job Reference (optional) T40627621
----------------	---------------	-----------------------------------	----------	----------	---------------------------------------

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

Run: 26.40 S Mar 12 2026 Print: 25.4 0 S Mar 12 2026 MiTek Industries, Inc. Fri Mar 27 16:04:45

Page: 1

ID:6oZIBsrl6RD_tNS?_ZsauuzXlKy0-RfC?Psb70Hq3NSgPqnl8w3uITXbGKWCDol7J4zJC?fi



Scale = 1/32

Plate Offsets (X, Y) [2 0-4-7, Edge], [6 0-0-7, 0-1-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 70	Vert(LL)	0.05	6-7	>999	240	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 34	Vert(CT)	-0 05	6-7	>999	180	
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 41	Horz(CT)	0 01	5	n/a	n/a	
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 50 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 or 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing

REACTIONS (size) 2=0-4-9, 4= Mechanical, 5= Mechanical
Max Horiz 2=151 (LC 4)
Max Uplift 2=-342 (LC 4), 4=-103 (LC 4), 5=-210 (LC 5)
Max Grav 2=514 (LC 18), 4=152 (LC 1), 5=278 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-868/611, 3-4=-53/28
BOT CHORD 2-7=-637/833, 6-7=-637/833, 5-6=0/0
WEBS 3-7=-71/203, 3-6=-854/653

NOTES

- 1) 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 5) Refer to girder(s) for truss to truss connections

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4, 342 lb uplift at joint 2 and 210 lb uplift at joint 5
- 7) "NAILED" Indicates 3-10d (0 148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidelines
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25
Uniform Loads (lb/ft)
Vert 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert. 10=64 (F=32, B=32), 12=-65 (F=-33, B=-33), 14=89 (F=44, B=44), 15=2 (F=1, B=1), 16=-55 (F=-27, B=27)

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

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

March 30,2026

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

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

MiTek®

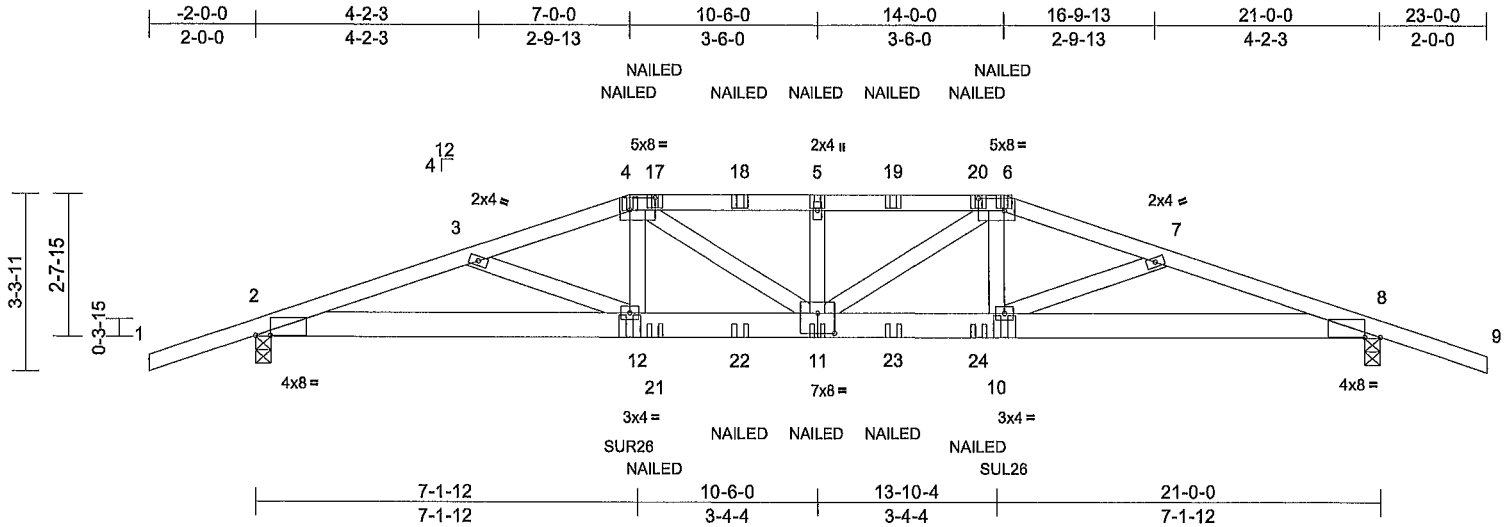
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job 5349971	Truss T01	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T40627622
----------------	--------------	--------------------------	----------	----------	---------------------------------------

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

Run: 25.40 S Mar 12 2026 Print 25.4.0 S Mar 12 2026 MITek Industries, Inc. Fri Mar 27 15:04:45
ID.XwIHyVIZPolkp3n6fq1GuHzXKxR-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDol7J4zJC7f

Page: 1



Scale = 1.43

Plate Offsets (X, Y) [2 0-3-6,0-0-0], [4 0-5-12,0-2-12], [6 0-5-12,0-2-12], [8 0-3-6,0-0-0], [11 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 79	Vert(LL)	0 36	11	>681	240	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 93	Vert(CT)	-0 39	11	>635	180	
BCLL	0 0*	Rep Stress Incr	NO	WB	0 26	Horz(CT)	0 08	8	n/a	n/a	
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							
Weight. 117 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 or 2-3-15 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-2-1 oc bracing

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=-63 (LC 13)
Max Uplift 2=-1315 (LC 4), 8=-1315 (LC 5)
Max Grav 2=1713 (LC 1), 8=1713 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/41, 2-3=-4285/3205, 3-4=-4103/3122, 4-5=-4438/3416, 5-6=-4438/3416, 6-7=-4103/3123, 7-8=-4285/3206, 8-9=0/41

BOT CHORD 2-12=-3005/4030, 10-12=-2920/3911, 8-10=-2943/4030

WEBS 4-12=-421/617, 6-10=-422/617, 6-11=-542/686, 3-12=-167/258, 7-10=-167/258, 5-11=-533/403, 4-11=-541/686

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=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
- 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 1315 lb uplift at joint 2 and 1315 lb uplift at joint 8
- 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
- Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 14-0-0 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
- 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, 4-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-67 (B), 6=-67 (B), 12=-238 (B), 10=-238 (B), 11=-65 (B), 5=-116 (B), 17=-116 (B), 18=-116 (B), 19=-116 (B), 20=-116 (B), 21=-65 (B), 22=-65 (B), 23=-65 (B), 24=-65 (B)

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

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

March 30,2026

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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

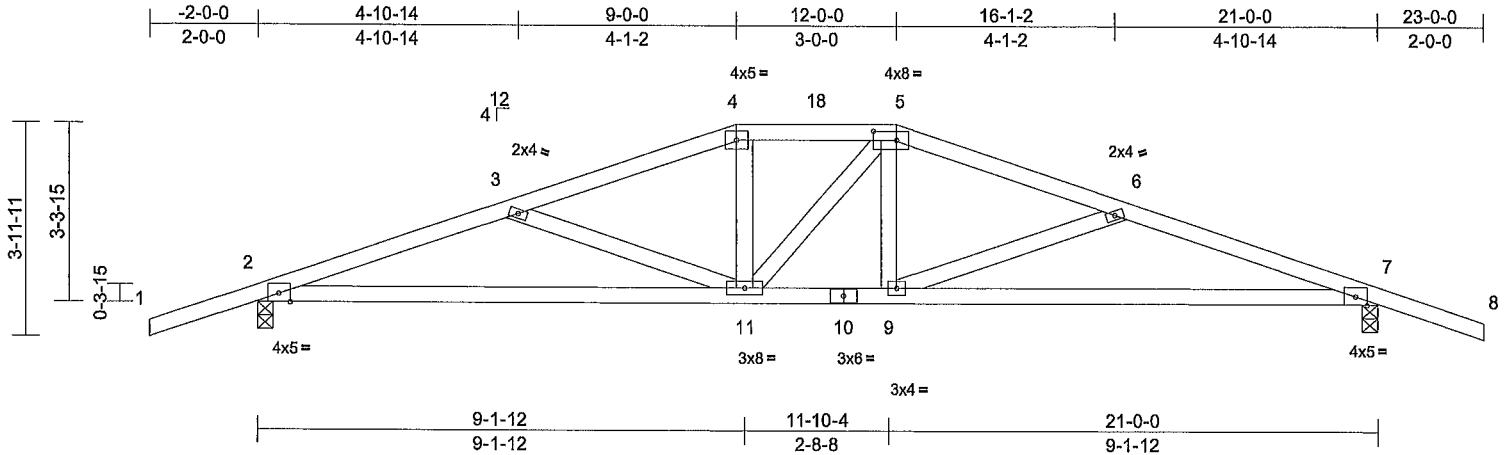
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5349971	T02	Hip	1	1	T40627623

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

Run: 25.40 S Mar 12 2026 Print 25.4 0 S Mar 12 2026 MITek Industries, Inc. Fri Mar 27 15:04:45
ID laWlPurnodYlJzjmonKpDBzXKwk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC7f

Page 1



Scale = 1.43:1

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

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 47	Vert(LL)	0 25	9-14	>996	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 77	Vert(CT)	-0 34	9-14	>733	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 20	Horz(CT)	0 06	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 97 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-3-2 oc bracing

REACTIONS

(size) 2=0-3-8, 7=0-3-8
Max Horiz 2=77 (LC 16)
Max Uplift 2=-688 (LC 8), 7=-688 (LC 9)
Max Grav 2=960 (LC 1), 7=960 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-1962/1677, 3-4=-1536/1358, 4-5=-1426/1334, 5-6=-1535/1377, 6-7=-1962/1697, 7-8=0/38
BOT CHORD 2-11=-1525/1844, 9-11=-1176/1425, 7-9=-1558/1844
WEBS 3-11=-462/421, 4-11=-277/313, 5-11=-110/113, 5-9=-285/313, 6-9=-463/420

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust)
Vasd=101mph, TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat II, Exp C, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-9-12, Zone1 0-9-12 to 9-0-0, Zone3 9-0-0 to 12-0-0, Zone2 12-0-0 to 16-3-14, Zone1 16-3-14 to 23-0-0 zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 688 lb uplift at joint 7 and 688 lb uplift at joint 2

LOAD CASE(S) Standard

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

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

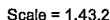
March 30,2026

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

MiTek®

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MITek-US.com

Page: 1LOAD CASE(S) Standard

March 30, 2026

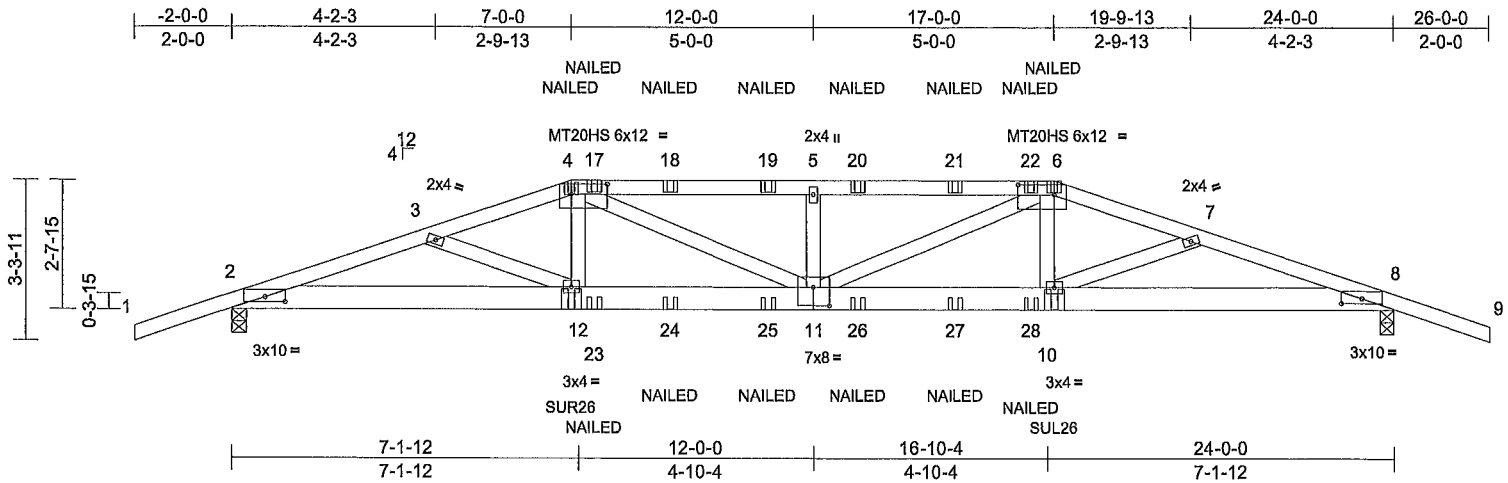
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MITek-US.com

Job 5349971	Truss T04	Truss Type Hip Girder	Qty 1	Ply 1	Job Reference (optional) T40627625
----------------	--------------	--------------------------	----------	----------	---------------------------------------

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

Run 25:40 S Mar 12 2026 Print: 25:40 S Mar 12 2026 MiTek Industries, Inc. Fri Mar 27 15:04:45
ID:bupfnUldslKyHpd30lOjBzXKw8-RfC7PsB70Hq3NSgPqnL8w3uITXbGKWCrDol7J4zJC7f

Page 1



Scale = 1:47.6

Plate Offsets (X, Y) [2 0-5-0,0-1-4], [4 0-9-0,0-2-8], [6 0-9-0,0-2-8], [8 0-5-0,0-1-4], [11 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 78	Vert(LL)	0.45	11	>633	240	MT20HS	187/143
TCDL	10 0	Lumber DOL	1 25	BC	0.43	Vert(CT)	-0 48	11	>594	180	MT20	244/190
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0 08	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6 2x4 SP 2700F 2 2E or 2x4 SP 2850F 2 0E or 2x4 SP M 31
BOT CHORD 2x6 SP 2400F 2 0E or 2x6 SP M 26
WEBS 2x4 SP No 3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-3-12 oc bracing

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=63 (LC 27)
Max Uplift 2=-1478 (LC 4), 8=-1478 (LC 5)
Max Grav 2=1923 (LC 1), 8=1923 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-3=-4922/3701, 3-4=-4786/3652, 4-5=-5537/4263, 5-6=-5537/4263, 6-7=-4786/3652, 7-8=-4922/3702, 8-9=0/41
BOT CHORD 2-12=-3470/4628, 10-12=-3428/4566, 8-10=-3408/4628
WEBS 4-12=-445/658, 4-11=-850/1130, 5-11=-681/510, 6-11=-851/1130, 6-10=-446/658, 3-12=-161/255, 7-10=-161/256

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Provide adequate drainage to prevent water ponding
- All plates are MT20 plates unless otherwise indicated

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1478 lb uplift at joint 8 and 1478 lb uplift at joint 2
- 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
- Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 17-0-0 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
- 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, 4-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-67 (B), 6=-67 (B), 12=-238 (B), 10=-238 (B), 17=-116 (B), 18=-116 (B), 19=-116 (B), 20=-116 (B), 21=-116 (B), 22=-116 (B), 23=-65 (B), 24=-65 (B), 25=-65 (B), 26=-65 (B), 27=-65 (B), 28=-65 (B)

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

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

March 30,2026

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

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

MiTek®

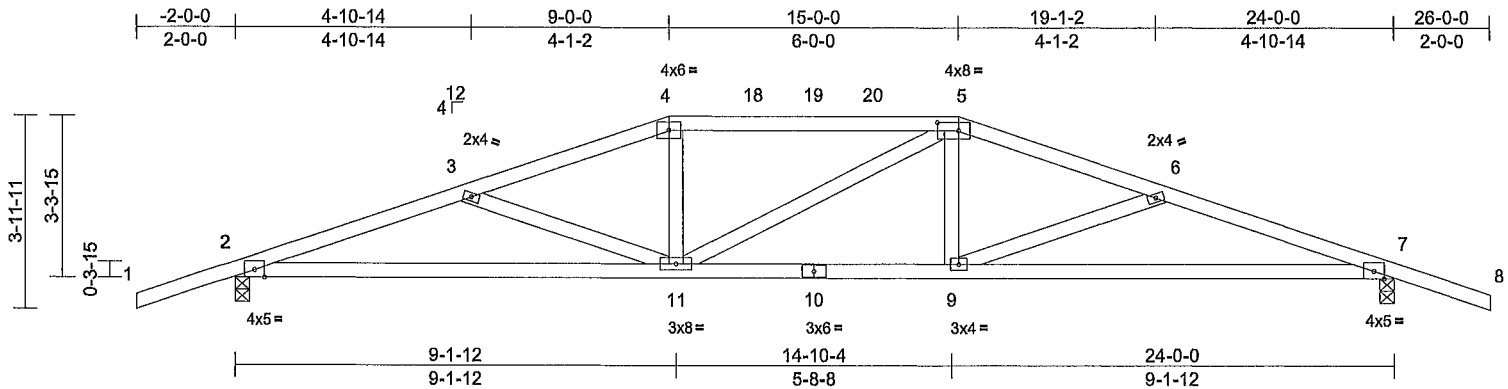
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 5349971	Truss T05	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T40627626
----------------	--------------	-------------------	----------	----------	---------------------------------------

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

Run: 25.40 S Mar 12 2026 Print 25.40 S Mar 12 2026 MiTek Industries, Inc. Fri Mar 27 15:04:45
ID:yOgPZDm4gHFQSP6ZoSDtqQzXKvX-RfC7PsB70Hq3NSgPqnL8w3uITXbGKwRCD0I7J4zJC7f

Page 1



Scale = 1.47 7

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

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 62	Vert(LL)	0 29	9-14	>991	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 83	Vert(CT)	-0 38	9-14	>766	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 18	Horz(CT)	0 08	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 110 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-0-12 oc bracing

REACTIONS

(size) 2=0-3-8, 7=0-3-8
Max Horiz 2=77 (LC 12)
Max Uplift 2=-778 (LC 8), 7=-778 (LC 9)
Max Grav 2=1080 (LC 1), 7=1080 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-2320/1854, 3-4=-1923/1579, 4-5=-1800/1547, 5-6=-1923/1579, 6-7=-2320/1854, 7-8=0/38
BOT CHORD 2-11=-1697/2182, 9-11=-1382/1799, 7-9=-1711/2182
WEBS 3-11=-424/364, 4-11=-273/367, 5-11=-145/145, 5-9=-296/367, 6-9=-424/364

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat II, Exp C, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-9-12, Zone1 0-9-12 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-0-0, Zone2 15-0-0 to 19-3-14, Zone1 19-3-14 to 26-0-0 zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 778 lb uplift at joint 7 and 778 lb uplift at joint 2

LOAD CASE(S) Standard

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

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

March 30,2026

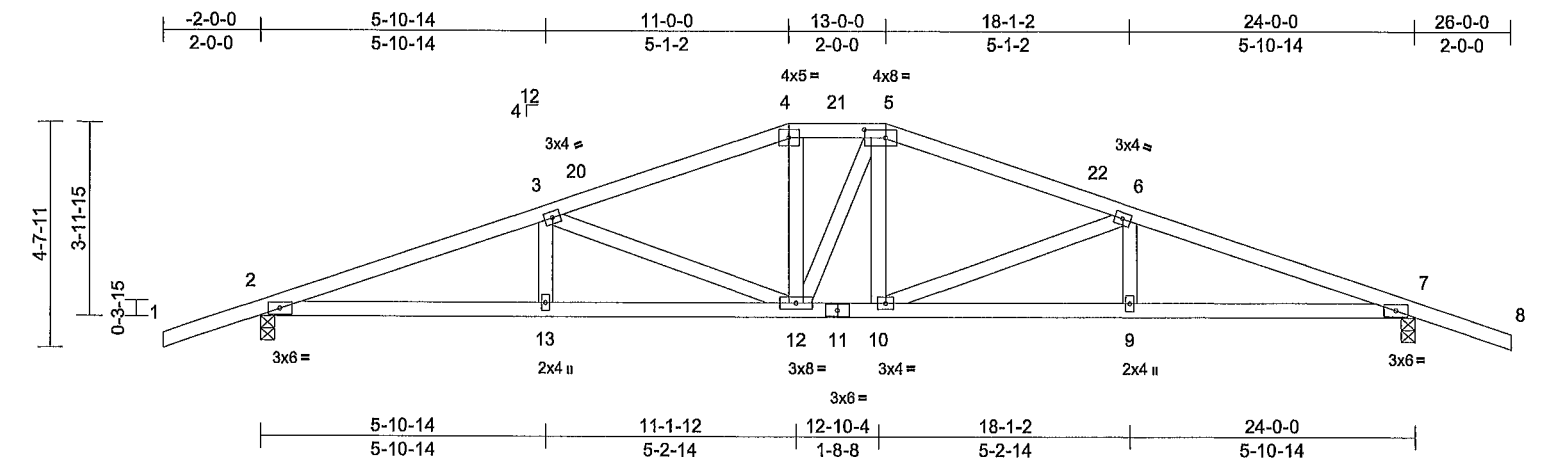
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job 5349971	Truss T06	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T40627627
----------------	--------------	-------------------	----------	----------	---------------------------------------



Scale = 1:47.8

Plate Offsets (X, Y) [5 0-5-4,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.45	Vert(LL)	0 21	12-13	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 61	Vert(CT)	-0 25	9-10	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0 08	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 116 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No 3
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-5-12 oc bracing
REACTIONS (size) 2=0-3-8, 7=0-3-8
Max Horiz 2=91 (LC 12)
Max Uplift 2=-763 (LC 8), 7=-763 (LC 9)
Max Grav 2=1080 (LC 1), 7=1080 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-2323/1793, 3-4=-1661/1320, 4-5=-1536/1297, 5-6=-1659/1327, 6-7=-2324/1806, 7-8=0/38
BOT CHORD 2-13=-1623/2163, 12-13=-1623/2163, 10-12=-1118/1534, 9-10=-1649/2164, 7-9=-1649/2164
WEBS 3-12=-692/578, 4-12=-302/321, 5-12=-123/130, 5-10=-283/319, 6-10=-695/580, 6-9=-138/230, 3-13=-137/229
NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp C, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 0-9-12, Zone1 0-9-12 to 11-0-0, Zone3 11-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 26-0-0 zone, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 763 lb uplift at joint 7 and 763 lb uplift at joint 2
LOAD CASE(S) Standard

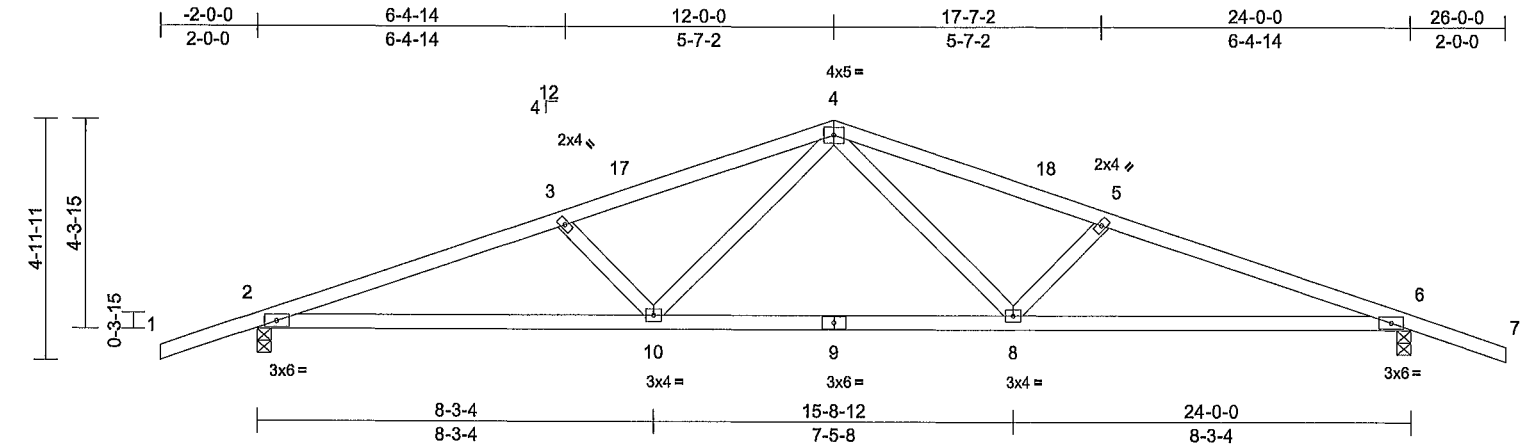
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date
March 30,2026

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5349971	T07	Common	2	1	T40627628

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

Run: 25.40 S Mar 12 2026 Print: 25.4.0 S Mar 12 2026 MiTek Industries, Inc. Fri Mar 27 15:04:45
ID: Q71dvBC1 Q2fS9BHILIL4lozXKv_-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f

Page: 1



Scale = 1:47.9												
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	0.49	Vert(LL)	0.24	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.28	8-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 104 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-1 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-6-7 oc bracing

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=98 (LC 12)
Max Uplift 2=-755 (LC 8), 6=-755 (LC 9)
Max Grav 2=1080 (LC 1), 6=1080 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-2255/1660, 3-4=-1994/1554, 4-5=-1994/1554, 5-6=-2255/1659, 6-7=0/38
BOT CHORD 2-10=-1483/2109, 8-10=-934/1411, 6-8=-1511/2109
WEBS 3-10=-414/310, 4-10=-557/638, 4-8=-557/638, 5-8=-414/311

- 5) * This truss has been designed for a live load of 20 Opsf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 2 and 755 lb uplift at joint 6
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, 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 0-9-12, Zone1 0-9-12 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 26-0-0 zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 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

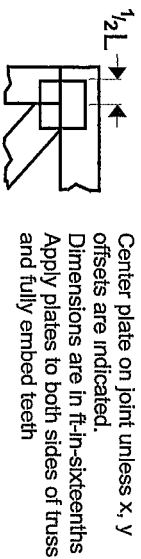
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

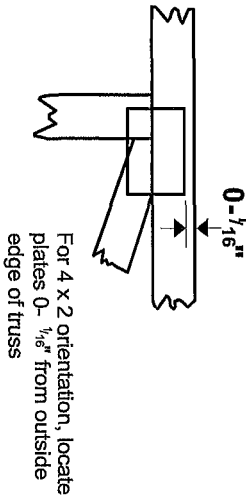
March 30,2026

Symbols

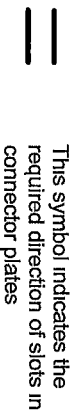
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

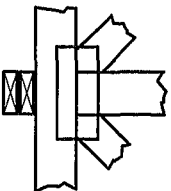
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots

LATERAL BRACING LOCATION



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

BEARING

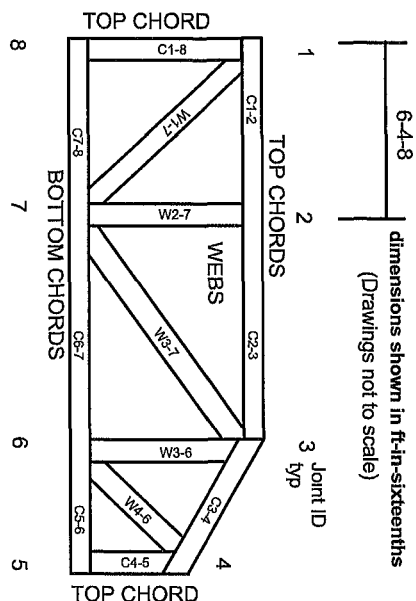


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-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.

© 2023 MITek® All Rights Reserved

MITek®

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

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 1 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 purins 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

MANUS
Backgrounds of this drawing are accepted
for publication by the American Institute
of Architects, Inc. as a standard
reference for the design of
buildings.

IMPORTANT
This drawing must be approved and
signed by the architect before
construction begins. It is the
architect's responsibility to
verify that the construction
follows the design. All
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION
Initial: _____ Date: _____
Requested Delivery Date: _____

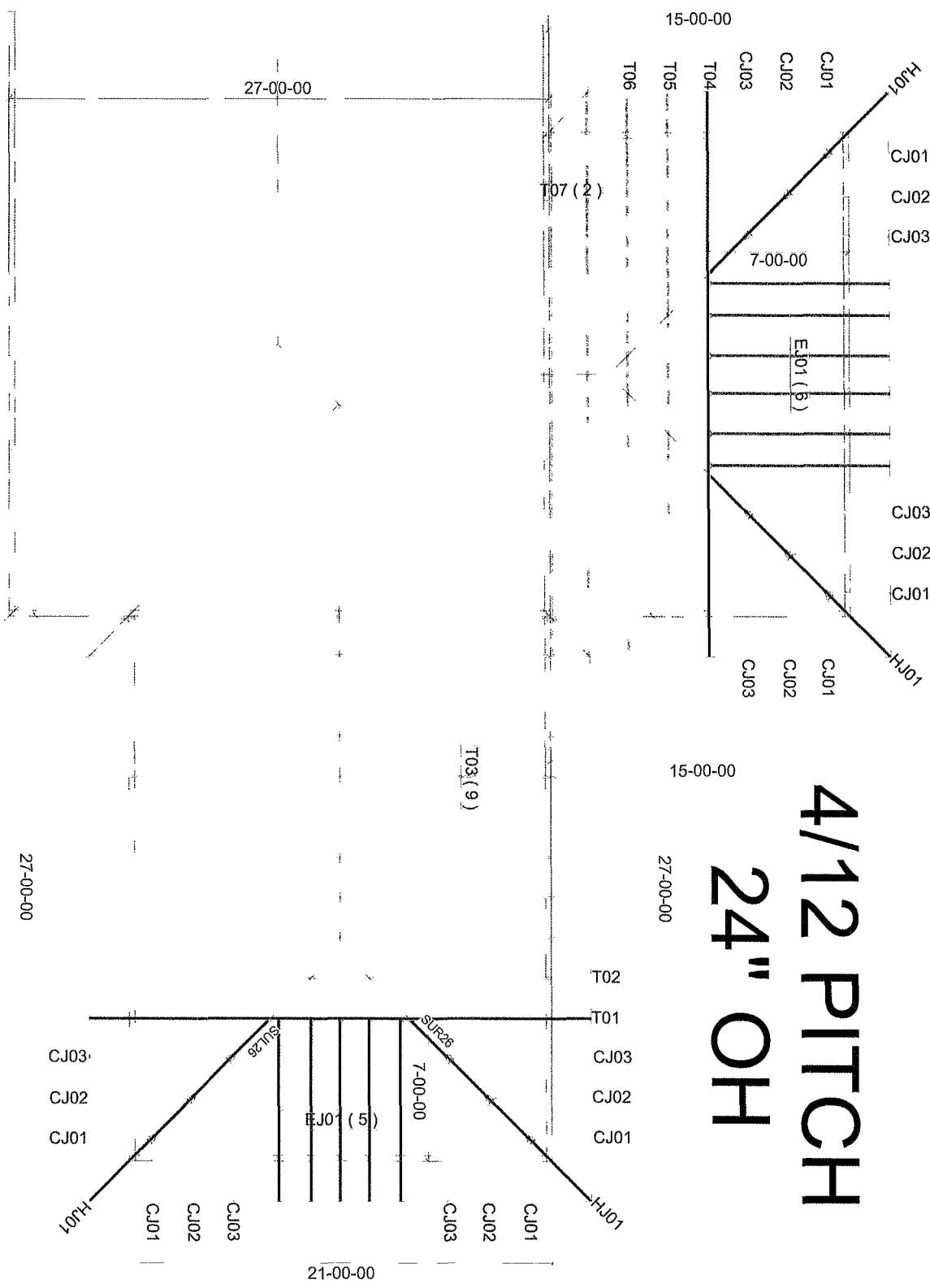
NOTES
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

ROOF PITCH: 4/12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 24"
END CUT: PLUMB
CANTILEVER: NA
TRUSS SPACING: 24"
BUILDING CODE: IBC 2021
BEARING HEIGHT SCHEDULE

BUILDER:
Jackson Building Supply
MODEL: CUSTOM
ELEV: HIP
ADDRESS: TBD
LOT / BLOCK: NA
SUBDIVISION: NORTON
CITY: SHELBY
DRAWN BY: Holloway, Kim
JOB #: 246971
DATE: 3/25/2025 SCALE: N.T.S.
REVISIONS:



4/12 PITCH 24" OH



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.