



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

RE: 4732393 - BURK RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: HARTLEY BROTHERS Project Name: Burk Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

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

This package includes 52 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	T38057987	CJ02	7/30/25	15	T38058001	PB01	7/30/25
2	T38057988	CJ02A	7/30/25	16	T38058002	PB01G	7/30/25
3	T38057989	CJ04	7/30/25	17	T38058003	T01	7/30/25
4	T38057990	CJ04A	7/30/25	18	T38058004	T01G	7/30/25
5	T38057991	CJ05	7/30/25	19	T38058005	T02	7/30/25
6	T38057992	CJ05A	7/30/25	20	T38058006	T03	7/30/25
7	T38057993	EJ01	7/30/25	21	T38058007	T04	7/30/25
8	T38057994	EJ02	7/30/25	22	T38058008	T05	7/30/25
9	T38057995	EJ03	7/30/25	23	T38058009	T06	7/30/25
10	T38057996	EJ04	7/30/25	24	T38058010	T07	7/30/25
11	T38057997	HJ05	7/30/25	25	T38058011	T08	7/30/25
12	T38057998	HJ05A	7/30/25	26	T38058012	T09	7/30/25
13	T38057999	HJ09	7/30/25	27	T38058013	T10	7/30/25
14	T38058000	HJ09A	7/30/25	28	T38058014	T11	7/30/25



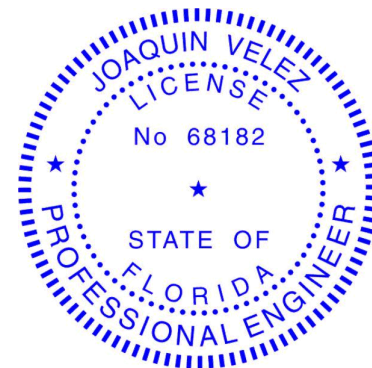
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.

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.



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

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.

July 30,2025

Velez, Joaquin

1 of 2



RE: 4732393 - BURK RES.

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

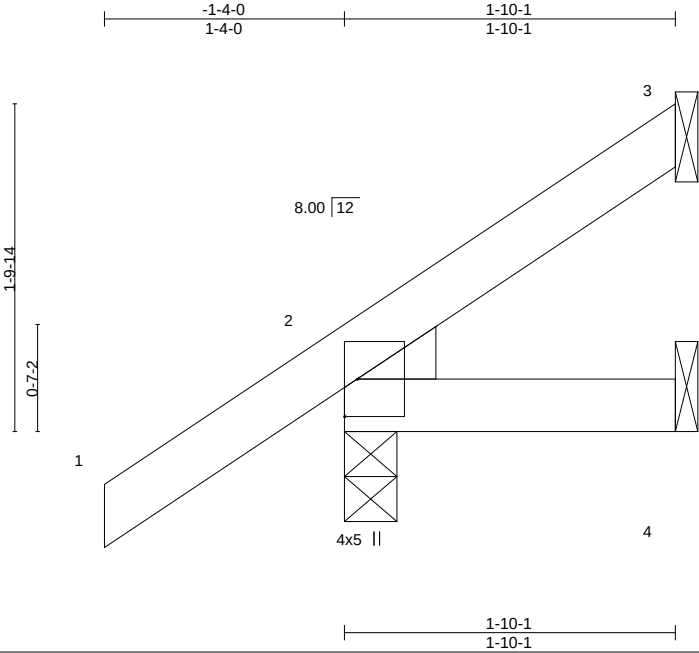
Site Information:

Customer Info: HARTLEY BROTHERS Project Name: Burk Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T38058015	T12	7/30/25
30	T38058016	T13	7/30/25
31	T38058017	T14	7/30/25
32	T38058018	T15	7/30/25
33	T38058019	T16	7/30/25
34	T38058020	T17	7/30/25
35	T38058021	T17G	7/30/25
36	T38058022	T18	7/30/25
37	T38058023	T19	7/30/25
38	T38058024	T20	7/30/25
39	T38058025	T21	7/30/25
40	T38058026	T21G	7/30/25
41	T38058027	T22	7/30/25
42	T38058028	V01	7/30/25
43	T38058029	V02	7/30/25
44	T38058030	V03	7/30/25
45	T38058031	V04	7/30/25
46	T38058032	V05	7/30/25
47	T38058033	V06	7/30/25
48	T38058034	V07	7/30/25
49	T38058035	V08	7/30/25
50	T38058036	V09	7/30/25
51	T38058037	V10	7/30/25
52	T38058038	V11	7/30/25

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057987
4732393	CJ02	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:29 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-aWdFbChsKUu46dfNxqw82z556lQac_AuBPu4gNytDXq



Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.03	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 9 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=76(LC 12)
Max Uplift 3=-29(LC 12), 2=-47(LC 12), 4=-1(LC 12)
Max Grav 3=37(LC 19), 2=182(LC 1), 4=28(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end 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
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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

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

July 30,2025

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	Truss	Truss Type	Qty	Ply	BURK RES.	T38057988
4732393	CJ02A	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:30 2025 Page 1
ID:Q1FFzpONoiYUaI8R35ESM3yupsu-2jBdpYhU5o1xknEZVYRNbAdHMimqLRP2Q3eeCqyDXp

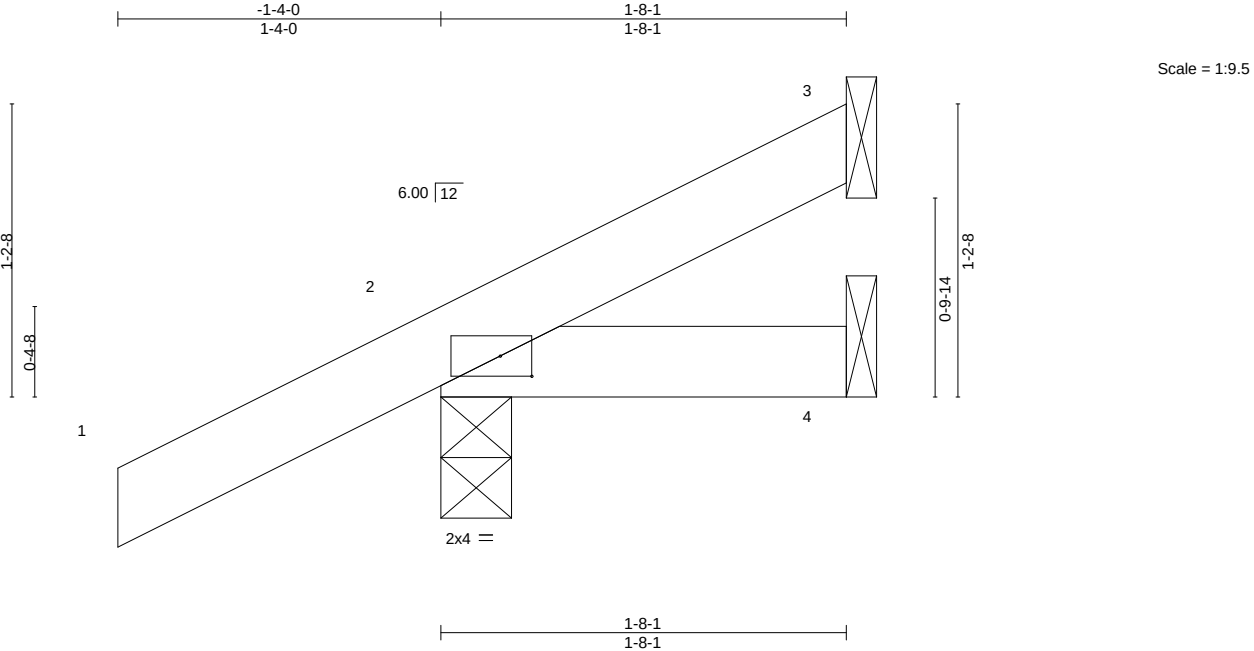


Plate Offsets (X,Y)--		[2:0-1-9,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.13	Vert(LL) -0.00 7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 8 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 1-8-1 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=54(LC 12)
Max Uplift 3=-17(LC 12), 2=-60(LC 12)
Max Grav 3=27(LC 1), 2=179(LC 1), 4=24(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end 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
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2.

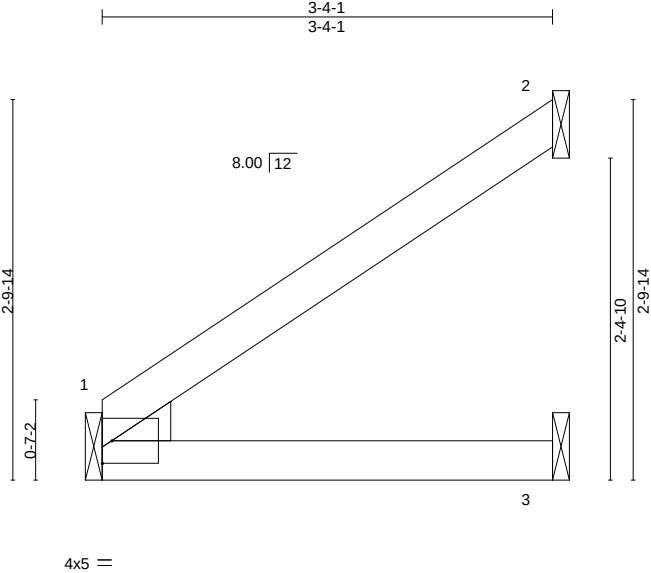
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057989
4732393	CJ04	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:30 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-2jBdpYhU5o1xknEZVYRNbAdGBikILRP2Q3eeCqytDXp



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.14	Vert(LL)	-0.01 3-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.16	Vert(CT)	-0.01 3-6	>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: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=Mechanical
Max Horz 1=84(LC 12)
Max Uplift 2=-64(LC 12), 3=-10(LC 12), 1=-4(LC 12)
Max Grav 2=92(LC 19), 3=61(LC 3), 1=131(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end 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
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 3, 1.

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Date:

July 30,2025

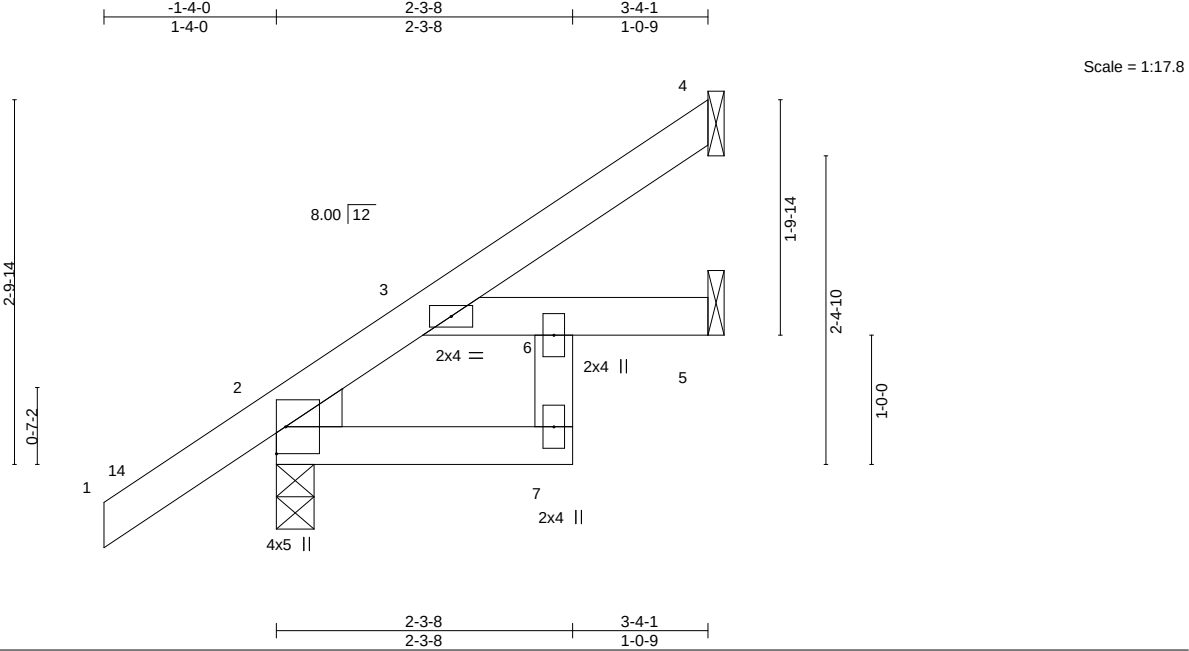
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	BURK RES.	T38057990
4732393	CJ04A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:30 2025 Page 1
ID:Q1FFzpONoiYUal8R35ESM3yupsu-2jBdpYhU5o1xknEZVYRNbAdGsikhLRP2Q3eeCqyDXp



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.16	Vert(CT)	-0.01	7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 17 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 6-7: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE Left: 2x4 SP No.3	

REACTIONS.	(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
	Max Horz 2=114(LC 12)
	Max Uplift 4=-41(LC 12), 2=-43(LC 12), 5=-22(LC 12)
	Max Grav 4=66(LC 19), 2=237(LC 1), 5=80(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-6-14, Zone1 1-6-14 to 3-3-5 zone;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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2, 5.

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

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

July 30,2025

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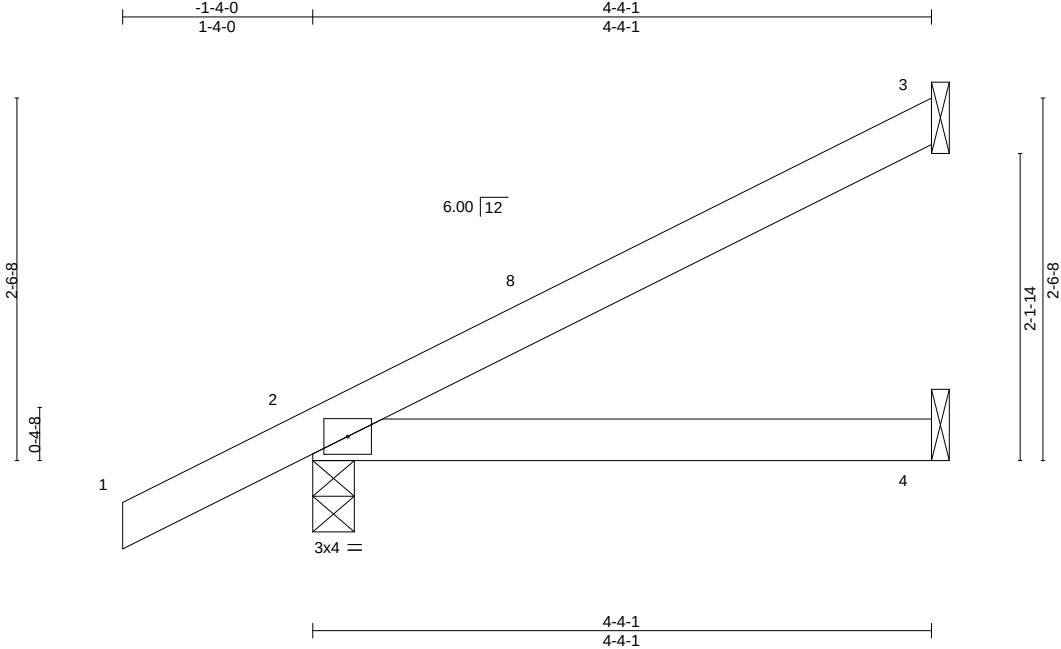
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MiTek®

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057991
4732393	CJ05	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:31 2025 Page 1
ID:Q1FFzpONOiYUal8R35ESM3yupsu-Wvi?0ui6s59oMwpm2Fzc8OAQf64g4ufBfjOBkGyDXo



Scale = 1:16.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.22	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.18	Vert(CT)	-0.03	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=105(LC 12)
Max Uplift 3=-66(LC 12), 2=-69(LC 12), 4=-1(LC 12)
Max Grav 3=107(LC 1), 2=264(LC 1), 4=78(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-3-5 zone;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.
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 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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July 30,2025

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

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057992
4732393	CJ05A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:31 2025 Page 1
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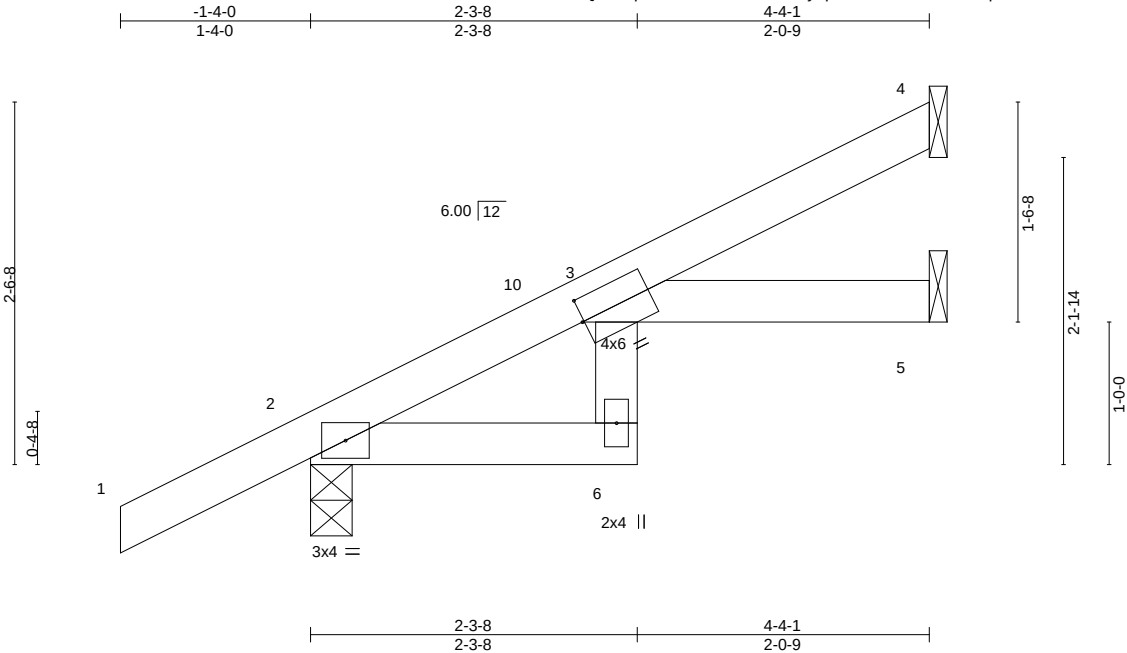


Plate Offsets (X,Y)--		[3:0-0-3,0-1-15]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP			
TCLL	20.0	Plate Grip DOL		1.25		TC 0.32		Vert(LL)		0.03		6		>999		240		MT20		244/190	
TCDL	10.0	Lumber DOL		1.25		BC 0.21		Vert(CT)		-0.04		6		>999		180					
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.00		Horz(CT)		0.03		5		n/a		n/a					
BCDL	10.0	Code		FBC2023/TPI2014		Matrix-MR												Weight: 18 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-6: 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=105(LC 12)
Max Uplift 4=-51(LC 12), 2=-69(LC 12), 5=-16(LC 12)
Max Grav 4=93(LC 1), 2=264(LC 1), 5=72(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-3-5 zone;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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2, 5.

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

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

July 30,2025

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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057993
4732393	EJ01	Jack-Partial	4	1		

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

8.830 s Jun 11 2025 MiTek Industries, Inc.
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Page 1
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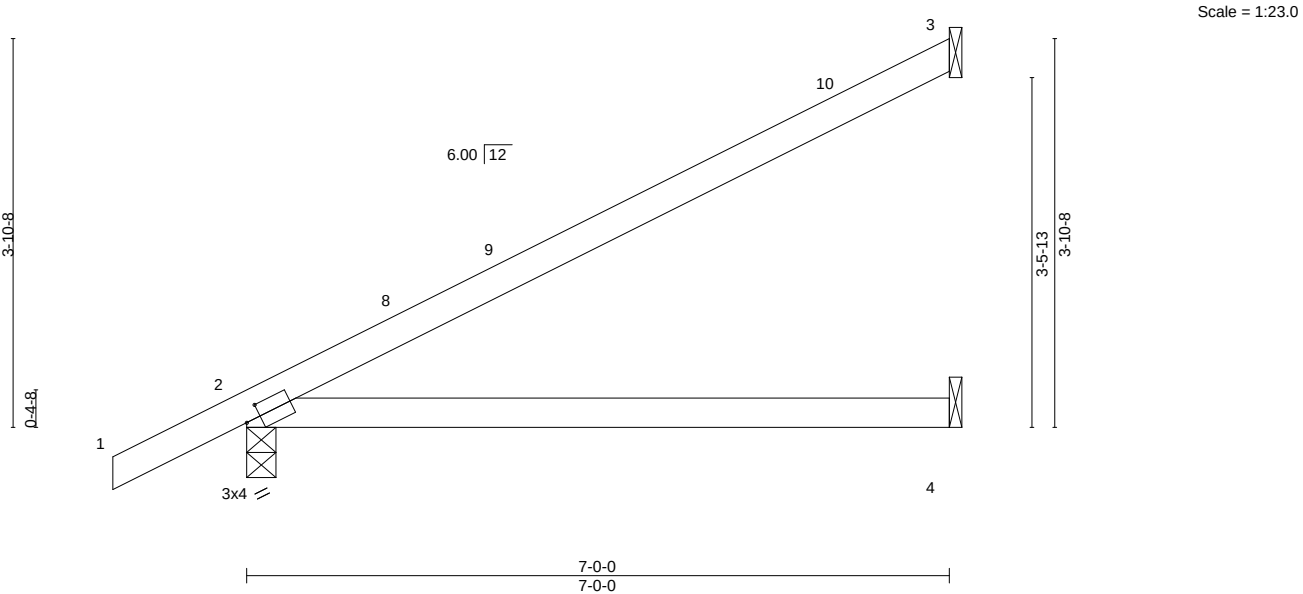


Plate Offsets (X,Y)--		[2:0-1-13,0-1-8]												
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP			
	TCLL	20.0	Plate Grip DOL		1.25	TC	0.70	Vert(LL)	0.12			4-7	>718	240
	TCDL	10.0	Lumber DOL		1.25	BC	0.54	Vert(CT)	-0.23			4-7	>361	180
	BCLL	0.0 *	Rep Stress Incr		YES	WB	0.00	Horz(CT)	0.01			2	n/a	n/a
	BCDL	10.0	Code		FBC2023/TPI2014	Matrix-MS								
										Weight: 24 lb	FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=150(LC 12)
 Max Uplift 3=-100(LC 12), 2=-88(LC 12), 4=-2(LC 12)
 Max Grav 3=182(LC 1), 2=365(LC 1), 4=129(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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'-6-0 tall by 2'-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057994
4732393	EJ02	Jack-Partial	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

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ID:Q1FFZpONOIYUal8R35ESM3yupsu-_5JNEEjldPHfz4OyczUrgbiT5WlbpLvLuN7kGiytDXn

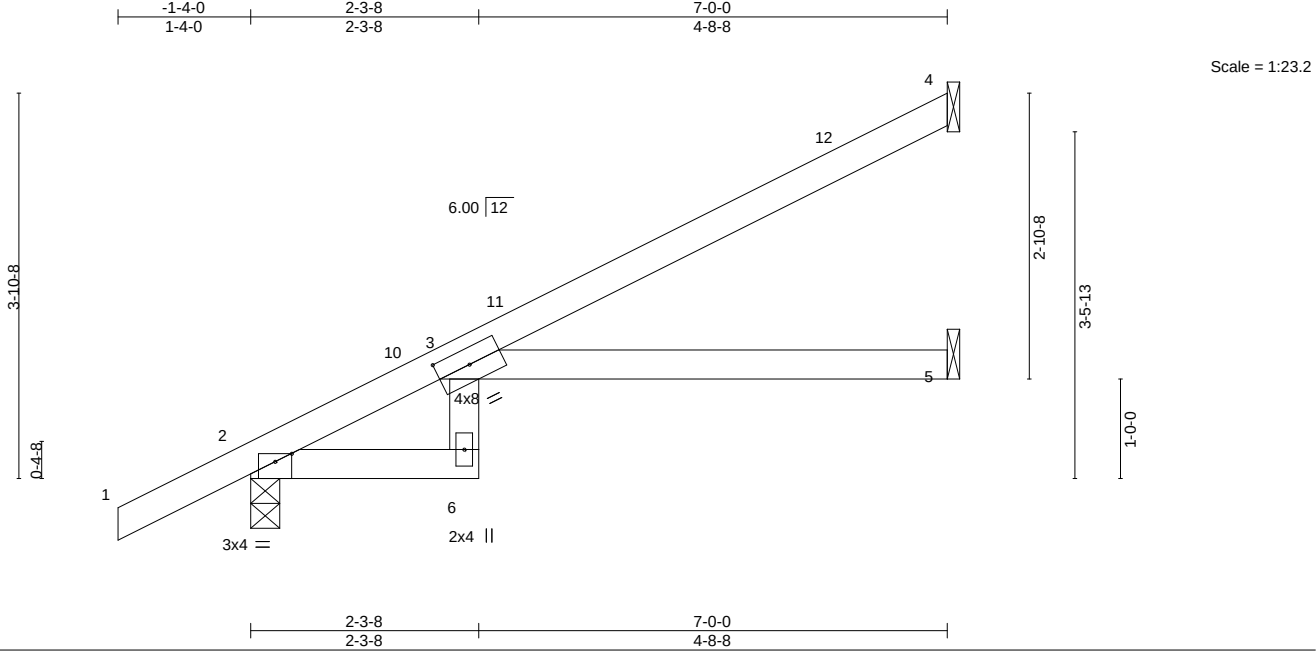


Plate Offsets (X,Y)--		[3:0-4-0,0-1-15]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	0.17	3-5	>484	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.29	3-5	>287	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.14	5	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR						Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-6: 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=150(LC 12)
Max Uplift 4=-85(LC 12), 2=-88(LC 12), 5=-17(LC 12)
Max Grav 4=167(LC 1), 2=365(LC 1), 5=124(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
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 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2, 5.

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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	EJ03	Jack-Partial	2	1	

T38057995

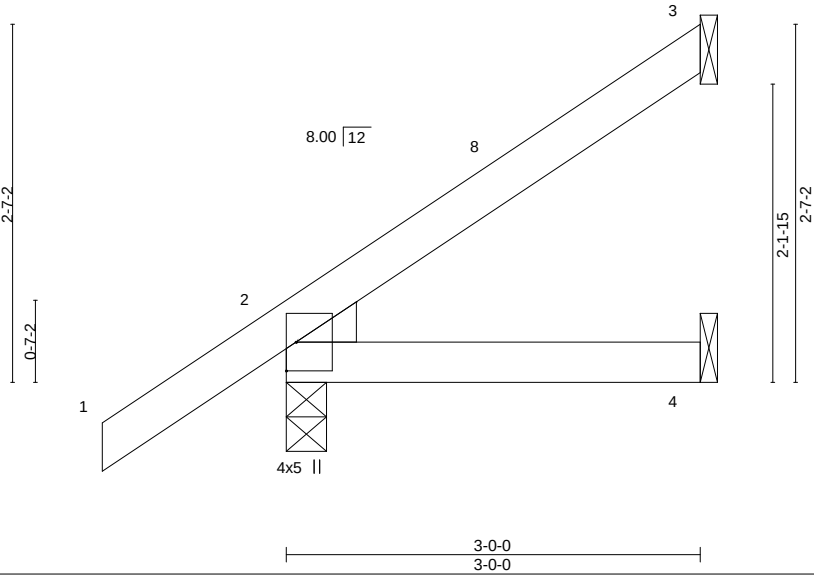
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ID:Q1FFZpONoiYUaI8R35ESM3yupsu_-5JNEEjldPHfz4OyczUrgbicMWRUpLvLuN7kGiytDXn



Scale = 1:16.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=105(LC 12)
Max Uplift 3=-53(LC 12), 2=-45(LC 12), 4=-5(LC 12)
Max Grav 3=75(LC 19), 2=216(LC 1), 4=52(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	EJ04	Jack-Closed	15	1	

T38057996

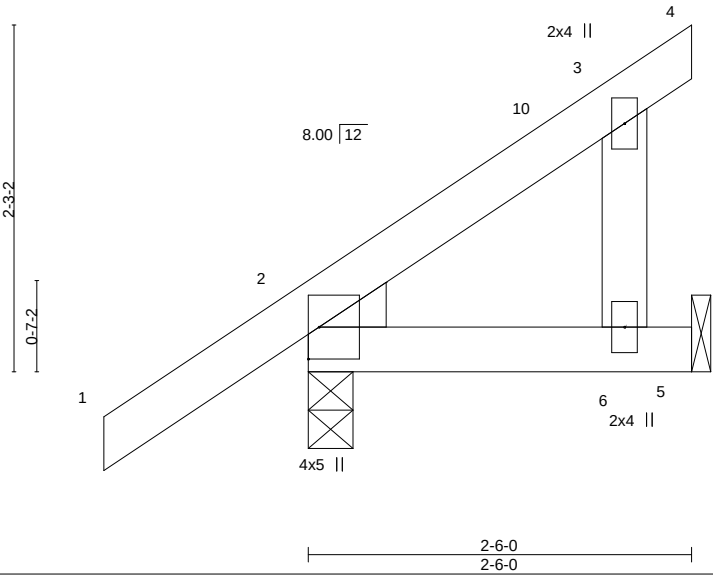
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:15.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(CT)	-0.00	6-9	>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: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=92(LC 12)
Max Uplift 2=-45(LC 12), 5=-46(LC 12)
Max Grav 2=199(LC 1), 5=86(LC 19)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

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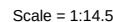
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 -2-2-11 4-1-0
 2-2-11 4-1-0



REACTIONS. (size) 2=0-4-13, 5=Mechanical
Max Horz 2=91(LC 8)
Max Uplift 2=-124(LC 4), 5=-54(LC 8)
Max Grav 2=329(LC 1), 5=133(LC 38)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5 except (jt=lb) 2=124.
- 8) "NAILED" indicates 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 (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 12=3(F) 13=2(B)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38057999
4732393	HJ09	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:35 2025 Page 1
ID:Q1FFzpONoiYUal8R35ESM3yupsu-Pg_WsGldwKfEqY6XH51ZIEK4IjOg0g9naKMpt1ytDXk

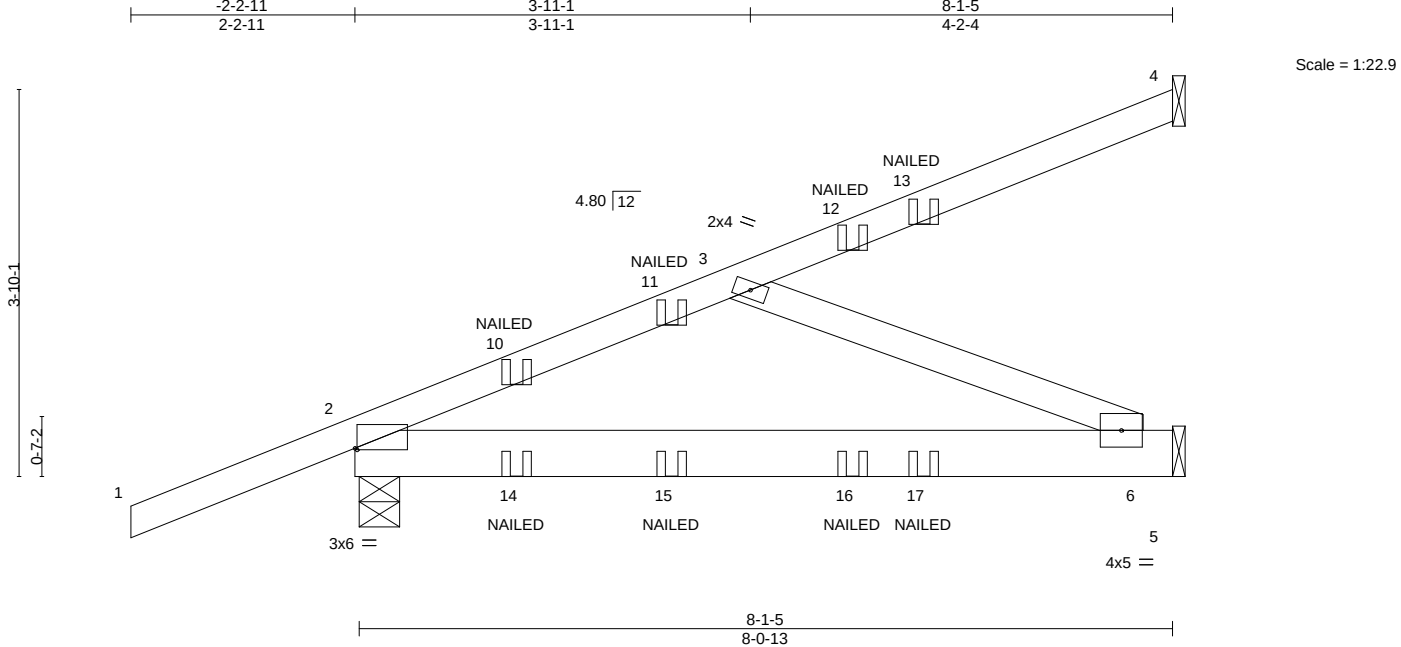


Plate Offsets (X,Y)--		[2:0-0-4,0-0-3]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.37	Vert(LL)	-0.05	6-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL 1.25		BC	0.37	Vert(CT)	-0.10	6-9	>996	180			
BCLL	0.0 *	Rep Stress Incr NO		WB	0.16	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 42 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-4-13, 5=Mechanical
Max Horz 2=154(LC 8)
Max Uplift 4=-78(LC 8), 2=-171(LC 4), 5=-89(LC 8)
Max Grav 4=110(LC 1), 2=490(LC 1), 5=234(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-413/159
BOT CHORD 2-6=-239/368
WEBS 3-6=-399/259

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=171.
 - 7) "NAILED" indicates 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 (plf)

Vert: 1-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 12=-7(F) 13=-10(B) 14=3(F) 15=2(B) 16=-18(F) 17=-21(B)

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

July 30,2025

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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058000
4732393	HJ09A	Diagonal Hip Girder	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:35 2025 Page 1
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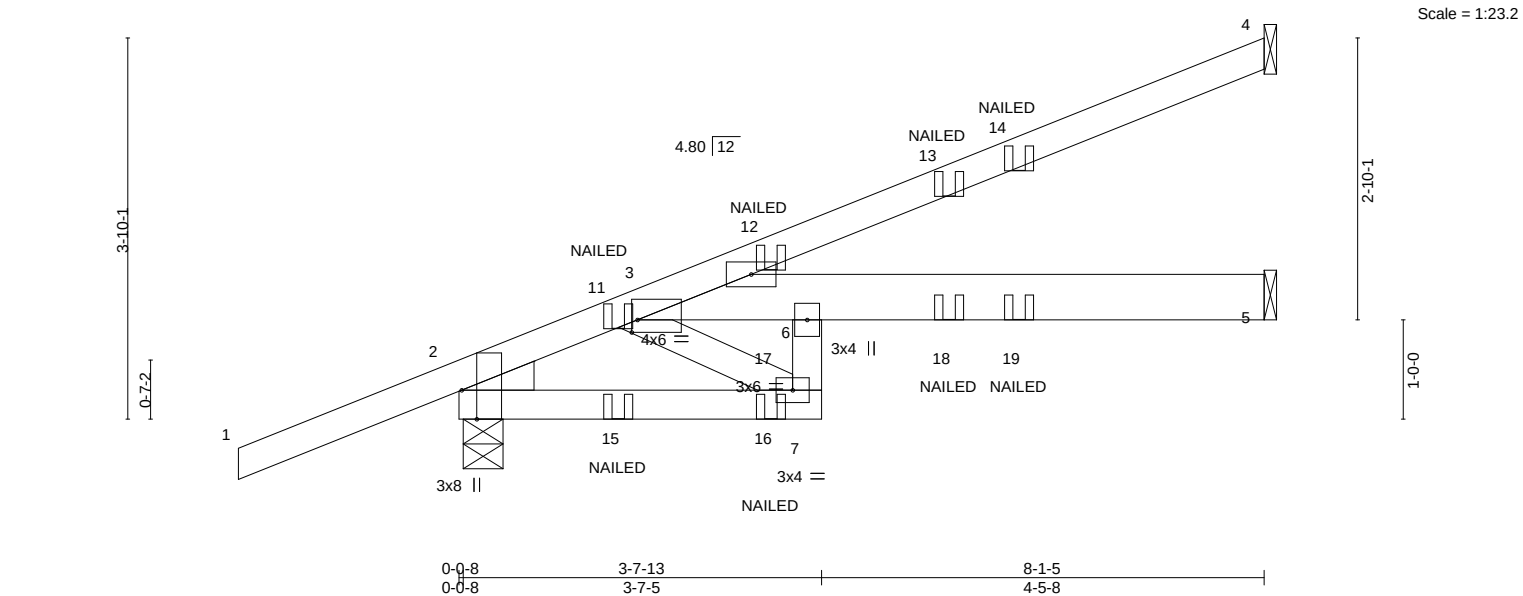


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-11,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.10	5-6	>925	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.17	5-6	>556	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.05	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 42 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	6-7: 2x4 SP No.3, 3-5: 2x6 SP No.2		
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 4=Mechanical, 2=0-4-13, 5=Mechanical
Max Horz 2=154(LC 8)
Max Uplift 4=-94(LC 8), 2=-159(LC 4), 5=-63(LC 8)
Max Grav 4=162(LC 1), 2=517(LC 1), 5=226(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-9=-530/107
BOT CHORD 2-7=-192/425, 6-7=-97/258
WEBS 3-7=-384/178

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=159.
 - 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 (plf)

Vert: 1-4=-60, 7-8=-20, 3-6=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 13=-6(B) 14=0(F) 15=3(B) 16=2(F) 18=-33(B) 19=-39(F)

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

July 30,2025

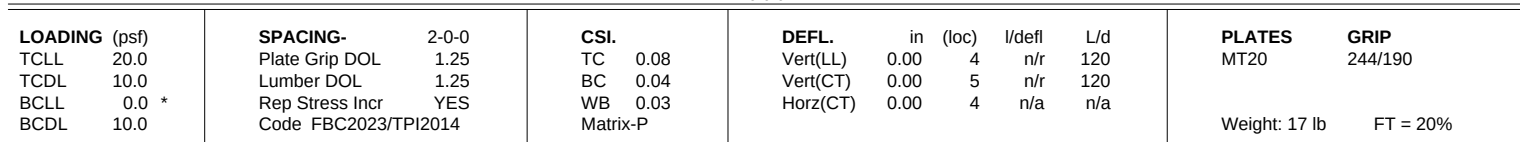
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 ID:Q1FFzpONoiYUal8R35ESM3yupsu-ttYu3cmFhen5SihjrpYorRtJa7p_l9Rwo_5yPTyDXj
 3-0-0 6-0-0
 3-0-0 3-0-0



REACTIONS. (size) 2=4-0-14, 4=4-0-14, 6=4-0-14
 Max Horz 2=-22(LC 13)
 Max Uplift 2=-46(LC 12), 4=-50(LC 13), 6=-17(LC 12)
 Max Grav 2=124(LC 1), 4=124(LC 1), 6=151(LC 1)

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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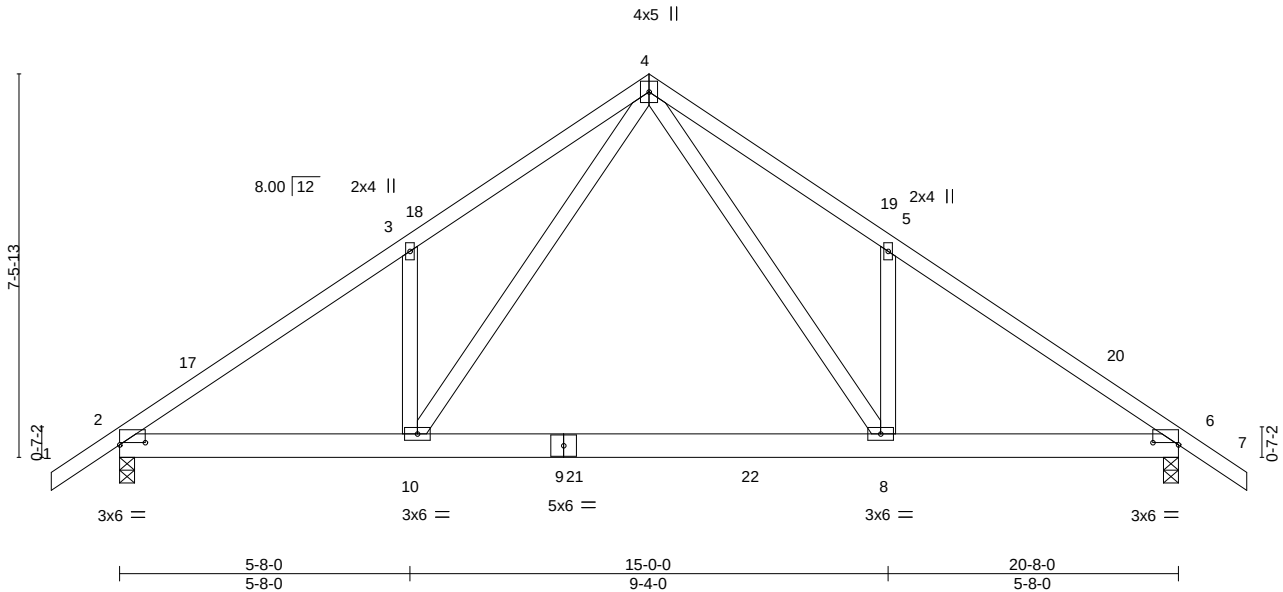
July 30, 2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058003
4732393	T01	Common	1	1	Job Reference (optional)	

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8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:37 2025 Page 1

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Scale = 1:45.0

Plate Offsets (X,Y)--		[2:0-6-0,0-0-9], [6:0-6-0,0-0-9]											
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25		TC	0.47	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.87	Vert(CT)	-0.35	8-10	>704	180		
BCLL	0.0 *	Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-	BRAACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-192(LC 10)
Max Uplift 2=-305(LC 12), 6=-305(LC 13)
Max Grav 2=1303(LC 19), 6=1303(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1906/412, 3-4=-1933/573, 4-5=-1933/573, 5-6=-1907/412
BOT CHORD 2-10=-355/1633, 8-10=-148/993, 6-8=-257/1524
WEBS 4-8=-377/1164, 5-8=-315/251, 4-10=-377/1163, 3-10=-315/251

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 22-0-0 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.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 6=305.
 - 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 (plf)
Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017
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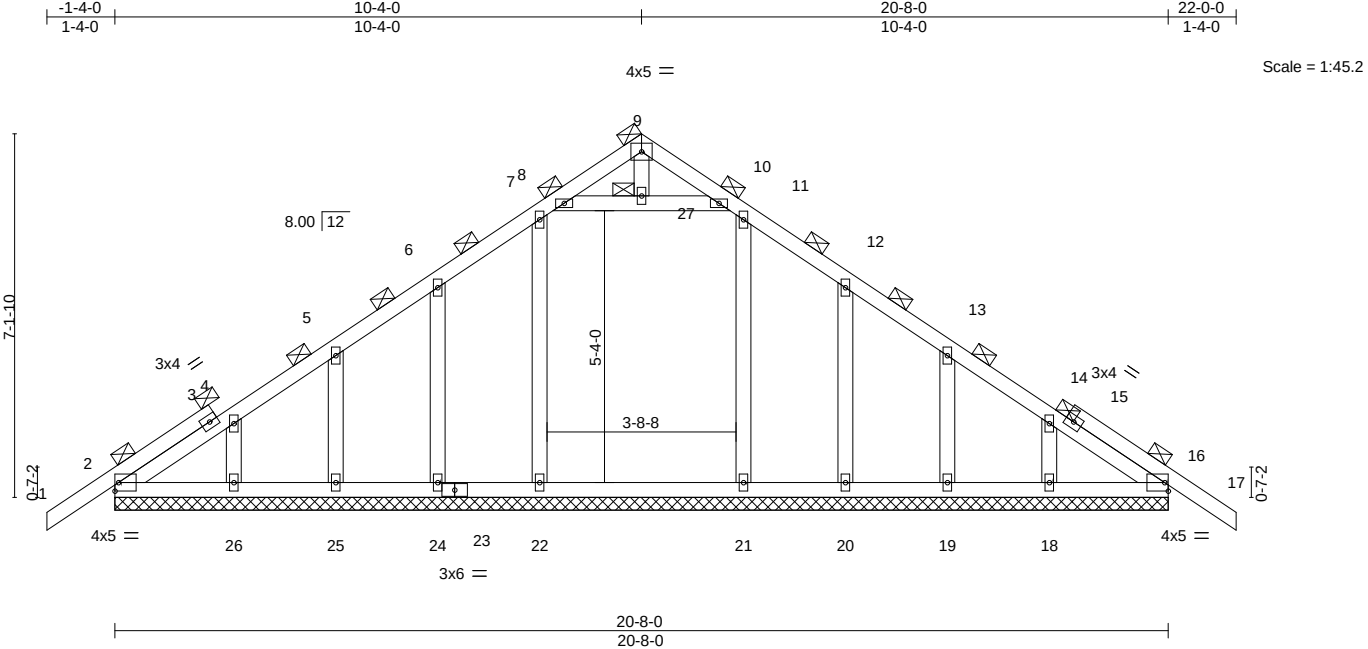
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058004
4732393	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:37 2025 Page 1

ID:Q1FFzpONoiYUal8R35ESM3yupsu-L36GHxntRxvx4rGvPW41NfQUnX7kUbX41erVywytdXi



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.12	Vert(LL) -0.00	17	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.14	Vert(CT) -0.01	17	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	16	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 124 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 9, 27
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 20-8-0.
(lb) - Max Horz	2=-184(LC 10)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 16, 22, 24, 25, 26, 20, 19, 18
Max Grav	All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 20, 19, 18 except 22=342(LC 19), 21=308(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 22, 24, 25, 26, 20, 19, 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058005
4732393	T02	Common	7	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:38 2025 Page 1
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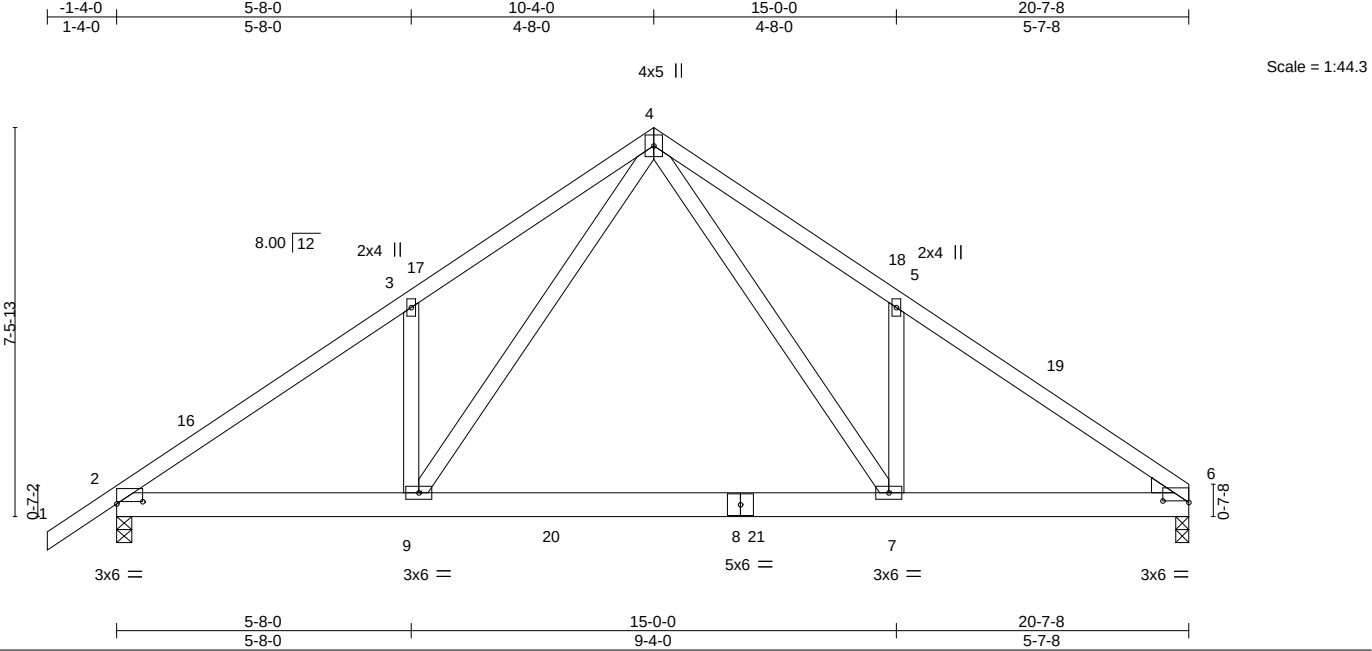


Plate Offsets (X,Y)--		[2:0-6-0,0-0-9], [6:0-6-0,0-0-6]										
LOADING (psf)		SPACING-	2-0-0	CSI.						PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.18	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.35	7-9	>702	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 124 lb	FT = 20%

LUMBER-	BRAACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (size) 6=0-3-0, 2=0-3-8
Max Horz 2=185(LC 9)
Max Uplift 6=271(LC 13), 2=305(LC 12)
Max Grav 6=1224(LC 20), 2=1302(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1905/412, 3-4=-1931/573, 4-5=-1933/579, 5-6=-1907/417
BOT CHORD 2-9=-371/1621, 7-9=-163/980, 6-7=-273/1509
WEBS 4-7=-382/1164, 5-7=-315/252, 4-9=-377/1164, 3-9=-315/251

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 20-7-8 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=271, 2=305.
 - 7) 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 (plf)
Vert: 1-4=-60, 4-6=-60, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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

July 30,2025

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058006
4732393	T03	Half Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:38 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-pFgfUHoVCF1oh?r6zDbGwsyZKxl_DwZDGla3UMytDXh
-1-4-0 5-8-0 10-6-8 15-0-0 20-7-8
1-4-0 5-8-0 4-10-8 4-5-8 5-7-8
5x6 = 3x4 = 2x4 || Scale = 1:45.1

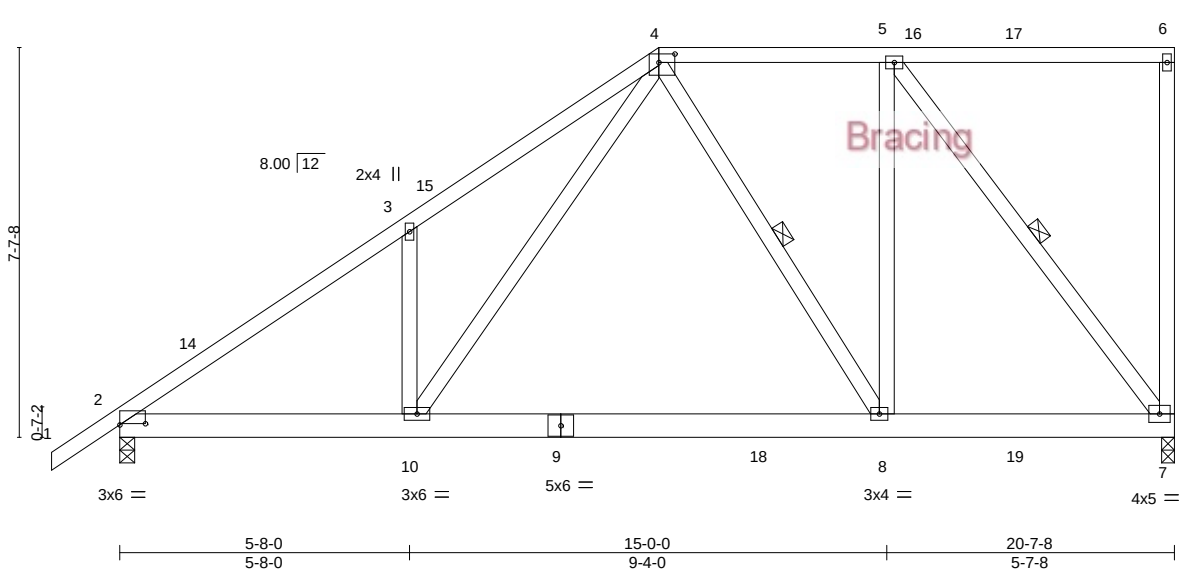


Plate Offsets (X,Y)--		[2:0-6-0,0-0-5], [4:0-3-12,0-2-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.16 8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.32 8-10	>780	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02 7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-8, 5-7

REACTIONS.	(size) 7=0-3-0, 2=0-3-8
	Max Horz 2=302(LC 12)
	Max Uplift 7=-316(LC 9), 2=-307(LC 12)
	Max Grav 7=1175(LC 2), 2=1281(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1860/413, 3-4=-1901/581, 4-5=-801/232
BOT CHORD	2-10=-529/1532, 8-10=-313/876, 7-8=-232/801
WEBS	3-10=-341/260, 4-10=-387/1175, 5-8=-183/873, 5-7=-1321/384

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-6-8, Zone2 10-6-8 to 15-0-0, Zone1 15-0-0 to 20-5-12 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.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=316, 2=307.
 - 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 (plf)	
Vert:	1-4=-60, 4-6=-60, 10-11=-20, 8-10=-80(F=-60), 7-8=-20

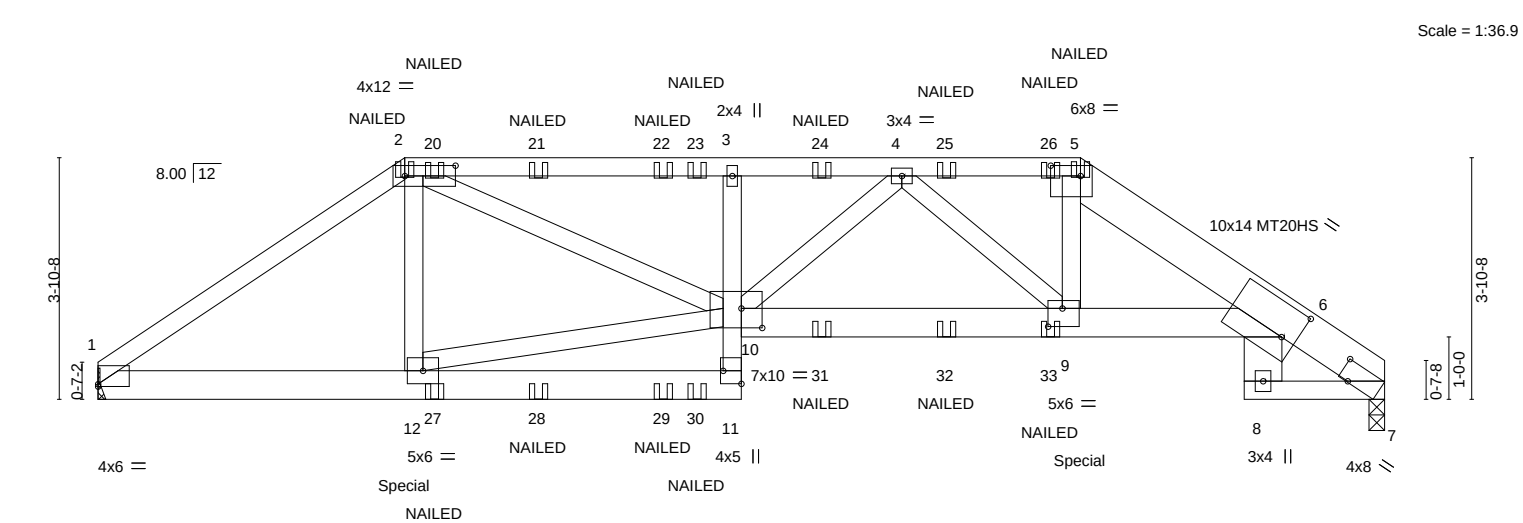
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058008
4732393	T05	Hip Girder	1	1		

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:40 2025 Page 1
4-11-0	10-3-12	ID:Q1FFZpONoiYUal8R35ESM3yupsu-leoPvzpmksHWxJ?U4edk?H2tUk1IhbwJc3AYEytDXf
4-11-0	5-4-12	12-10-10
		15-9-0
		2-6-14
		2-10-6
		18-4-8
		2-7-8
		20-7-8
		2-3-0



4-11-0	10-3-12	15-9-0	18-4-8	20-7-8
4-11-0	5-4-12	5-5-4	2-7-8	2-3-0
Plate Offsets (X,Y)--	[1:0-0-0,0-0-7], [2:0-9-12,0-2-0], [5:0-5-12,0-2-0], [6:0-2-12,0-6-1], [7:0-2-0,0-3-13], [9:0-2-12,0-3-8], [10:0-4-0,0-3-12], [11:Edge,0-3-8]			

LOADING (psf)	SPACING-	CSL	DEFL.	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20 244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.66	Vert(LL) 0.14 9-10 >999 240	MT20HS 187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.85	Vert(CT) -0.26 9-10 >940 180	
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.16 7 n/a n/a	
	Code FBC2023/TPI2014			Weight: 131 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-5: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 5-7: 2x8 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x4 SP No.2 *Except* 1-11: 2x6 SP No.2, 6-10: 2x6 SP 2400F 2.0E or 2x6 SP M 26 6-8: 2x8 SP 2400F 2.0E	
WEBS 2x4 SP No.3	

REACTIONS.	(size) 1=Mechanical, 7=0-3-0 Max Horz 1=-83(LC 4) Max Uplift 1=-628(LC 8), 7=-628(LC 9) Max Grav 1=1730(LC 1), 7=1755(LC 1)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2712/997, 2-3=-4176/1571, 3-4=-4185/1562, 4-5=-3170/1196, 5-6=-3617/1303, 6-18=-994/380
BOT CHORD	1-12=-825/2183, 11-12=-142/414, 10-11=-24/305, 3-10=-677/372, 9-10=-1386/3793, 6-9=-1075/3090
WEBS	10-12=-691/1803, 2-10=-856/2235, 4-10=-222/555, 5-9=-449/1376, 4-9=-877/388

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=628, 7=628.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 114 lb up at 4-11-0, and 177 lb down and 88 lb up at 15-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

July 30,2025

LOAD CASE(S) Standard

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	T05	Hip Girder	1	1	T38058008

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:40 2025 Page 2
ID:Q1FFzpONOiYUal8R35ESM3yupsu-leoPvzpmksHWxJ?U4edk?H2tUk1IhIbWjc3AYEytDXf

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-18=-60, 11-13=-20, 6-10=-20, 7-8=-20
- Concentrated Loads (lb)
- Vert: 2=-35(F) 5=-87(F) 12=-205(F) 9=-177(F) 20=-122(F) 21=-122(F) 22=-122(F) 23=-122(F) 24=-107(F) 25=-107(F) 26=-107(F) 27=-68(F) 28=-68(F) 29=-68(F)
- 30=-68(F) 31=-82(F) 32=-82(F) 33=-82(F)

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Chesterfield, MO 63017
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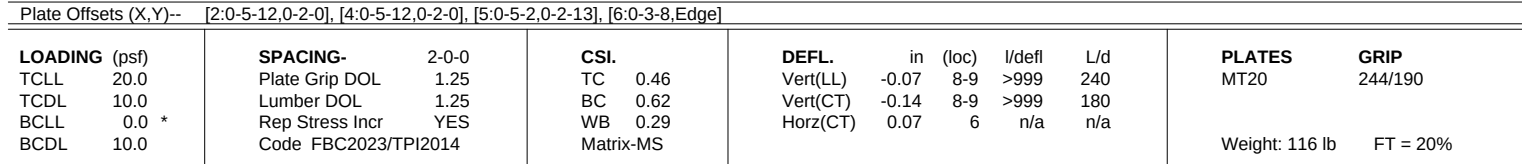
July 30,2025

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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:40 2025 Page 1
 ID:Q1FFZpONOIYUal8R35ESM3yupsu-leoPvzpmksHWxJ?U4edk?H2vbK2xhuLWjc3AYEytDXf
 6-5-0 10-3-12 14-3-0 18-4-8 20-7-8
 6-5-0 3-10-12 3-11-4 4-1-8 2-3-0



REACTIONS. (size) 1=Mechanical, 6=0-3-0
 Max Horz 1=106(LC 9)
 Max Uplift 1=-197(LC 12), 6=-199(LC 13)
 Max Grav 1=825(LC 1), 6=825(LC 1)

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

TOP CHORD	1-2=-1104/256, 2-3=-1206/300, 3-4=-1210/299, 4-5=-1448/318, 5-6=-1057/274
BOT CHORD	1-12=-184/831, 9-10=-153/1149, 8-9=-151/1131, 5-8=-145/1022, 7-8=-175/771, 6-7=-183/748
WEBS	10-12=-175/765, 2-10=-163/559, 4-9=-62/438, 5-7=-980/235

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-5-0, Zone2 6-5-0 to 10-7-15, Zone1 10-7-15 to 14-3-0, Zone2 14-3-0 to 18-5-15, Zone1 18-5-15 to 20-7-8 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=197, 6=199.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
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Chesterfield, MO 63017
314.434.1200 / MiTek-LLS.com

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058010
4732393	T07	Hip	1	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:41 2025 Page 1							
						ID:Q1FFzpONoiYUal8R35ESM3yupsu-EqLn7JqOVAPNYTaheM8zYVa?o8LeQKVfyGpj5hytDXe					
7-11-0		10-3-12		12-9-0		16-3-0		18-4-8		20-7-8	
7-11-0		2-4-12		2-5-4		3-6-0		2-1-8		2-3-0	

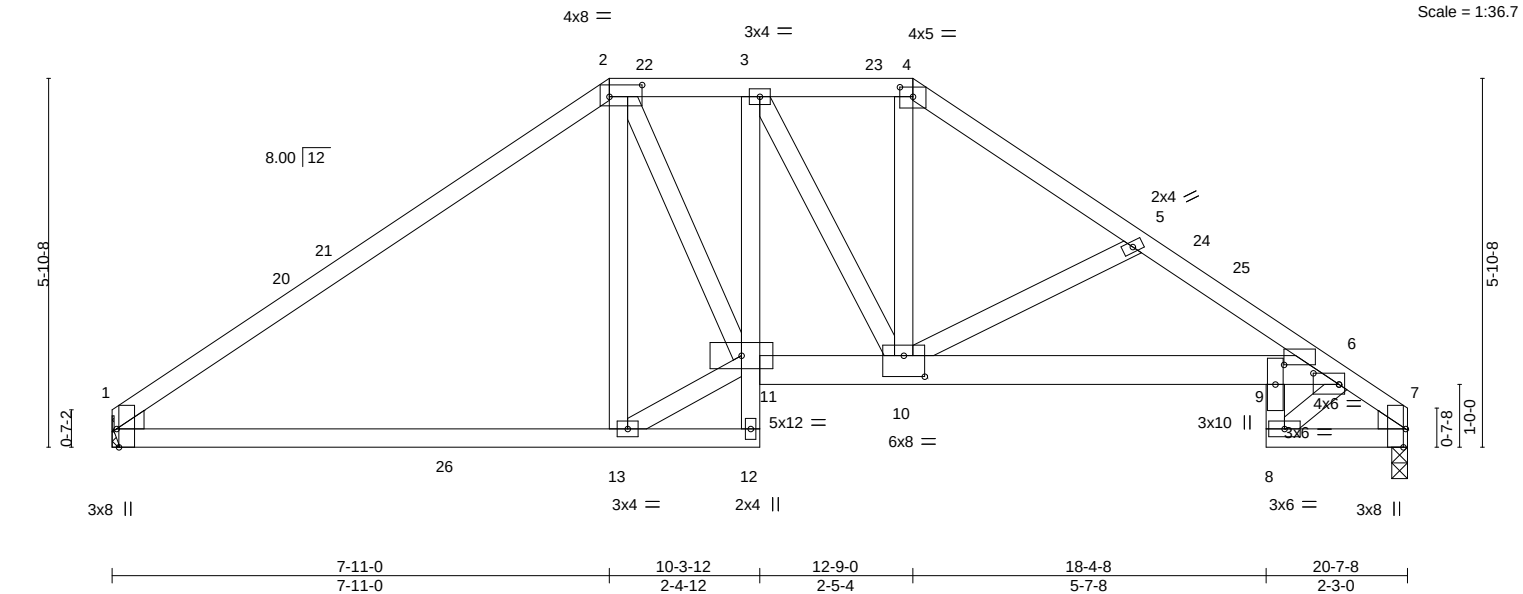


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [2:0-6-4,0-2-4], [4:0-2-8,0-1-13], [6:0-10-8,0-3-12], [6:0-4-14,0-2-2], [7:0-3-8,Edge], [10:0-4-0,0-4-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.14 13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.27 13-16	>927	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.09 7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
3-12,8-9: 2x4 SP No.3, 6-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26	6-0-0 oc bracing: 11-12.
WEBS 2x4 SP No.3	10-0-0 oc bracing: 9-10
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 1=Mechanical, 7=0-3-0
Max Horz 1=131(LC 9)
Max Uplift 1=193(LC 12), 7=195(LC 13)
Max Grav 1=905(LC 2), 7=903(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1141/237, 2-3=-1051/261, 3-4=-1074/269, 4-5=-1335/279, 5-6=-1546/347, 6-7=-1128/257
BOT CHORD 1-13=-161/877, 10-11=-147/1046, 9-10=-224/1293, 6-9=-203/1188, 8-9=-166/840, 7-8=-164/788
WEBS 11-13=-181/975, 2-11=-113/466, 4-10=-89/561, 5-10=-324/182, 6-8=-1047/219

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 7-11-0, Zone2 7-11-0 to 12-1-15, Zone1 12-1-15 to 12-9-0, Zone2 12-9-0 to 16-11-15, Zone1 16-11-15 to 20-7-8 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=193, 7=195.

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July 30,2025

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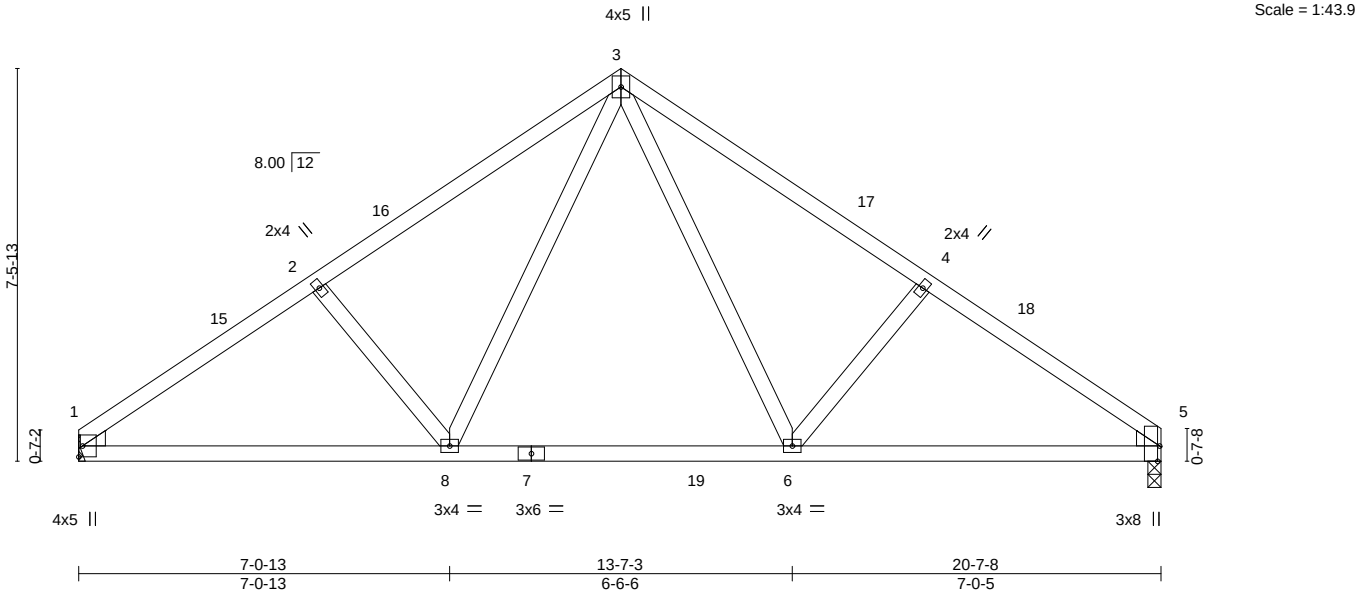
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058012
4732393	T09	Common	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:42 2025 Page 1

ID:Q1FFzpONOiYUal8R35ESM3yupsu-i1v9Kfr0GUXEAd9tC3fC4i7F2YIL9qVpBwYGd7ytDXd



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.09	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.14				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.03				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 104 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-6 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS. (size) 1=Mechanical, 5=0-3-0
Max Horz 1=170(LC 9)
Max Uplift 1=186(LC 12), 5=186(LC 13)
Max Grav 1=937(LC 19), 5=936(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1280/278, 2-3=-1145/288, 3-4=-1139/286, 4-5=-1273/277
BOT CHORD 1-8=-286/1143, 6-8=-85/729, 5-6=-170/1007
WEBS 3-6=-148/534, 4-6=-297/223, 3-8=-150/546, 2-8=-302/224

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 20-7-8 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=186, 5=186.

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

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

July 30,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058013
4732393	T10	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:43 2025 Page 1
ID:Q1FFzpONoiYUal8R35ESM3yupsu-ADTYX?se1nf5omj3lnARdwgQ6y5HuHoyPalq9ZytDXc
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1-4-0 4-7-0 5-9-0 5-9-0 4-3-6
4x5 ||
Scale = 1:44.2

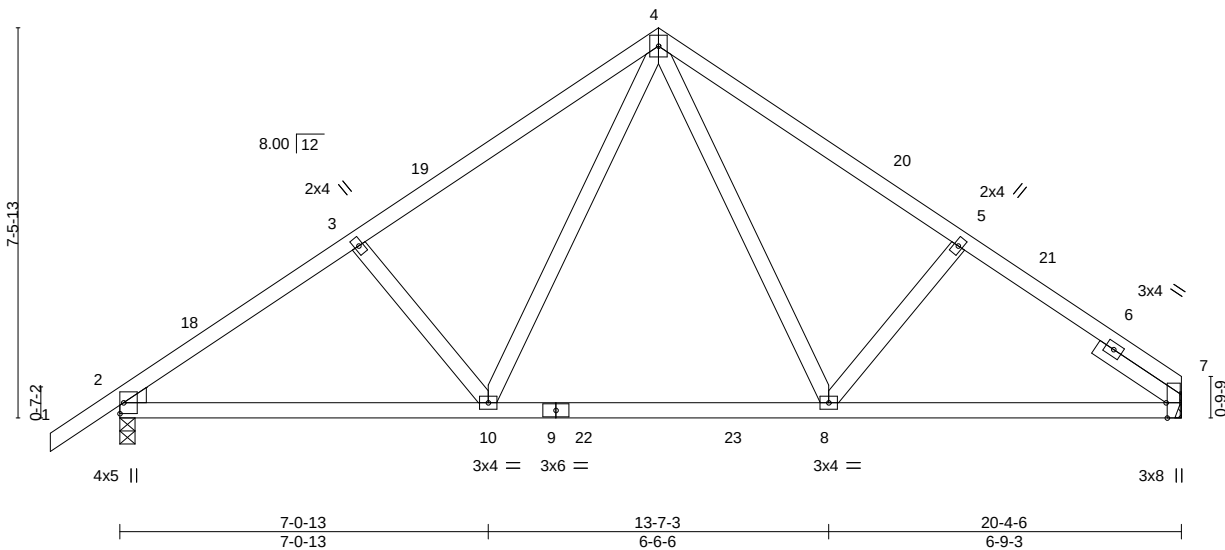


Plate Offsets (X,Y)-- [7:0-3-8,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.09	8-10	>999	240	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.15	8-10	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 107 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 1-11-8	

REACTIONS.	(size) 7=Mechanical, 2=0-3-8
	Max Horz 2=184(LC 9)
	Max Uplift 7=182(LC 13), 2=218(LC 12)
	Max Grav 7=920(LC 20), 2=1001(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1246/269, 3-4=-1112/279, 4-5=-1084/276, 5-7=-1183/266
BOT CHORD	2-10=-280/1110, 8-10=-84/705, 7-8=-163/940
WEBS	3-10=-295/220, 4-10=-144/535, 4-8=-138/484, 5-8=-254/214

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 20-4-6 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=182, 2=218.

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

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058014
4732393	T11	Half Hip	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:43 2025 Page 1
ID:Q1FFzpONoiYUal8R35ESM3yupsu-ADTYX?se1nf5omj3lnARdwgPvy2zuE?yPalq9ZytDXc

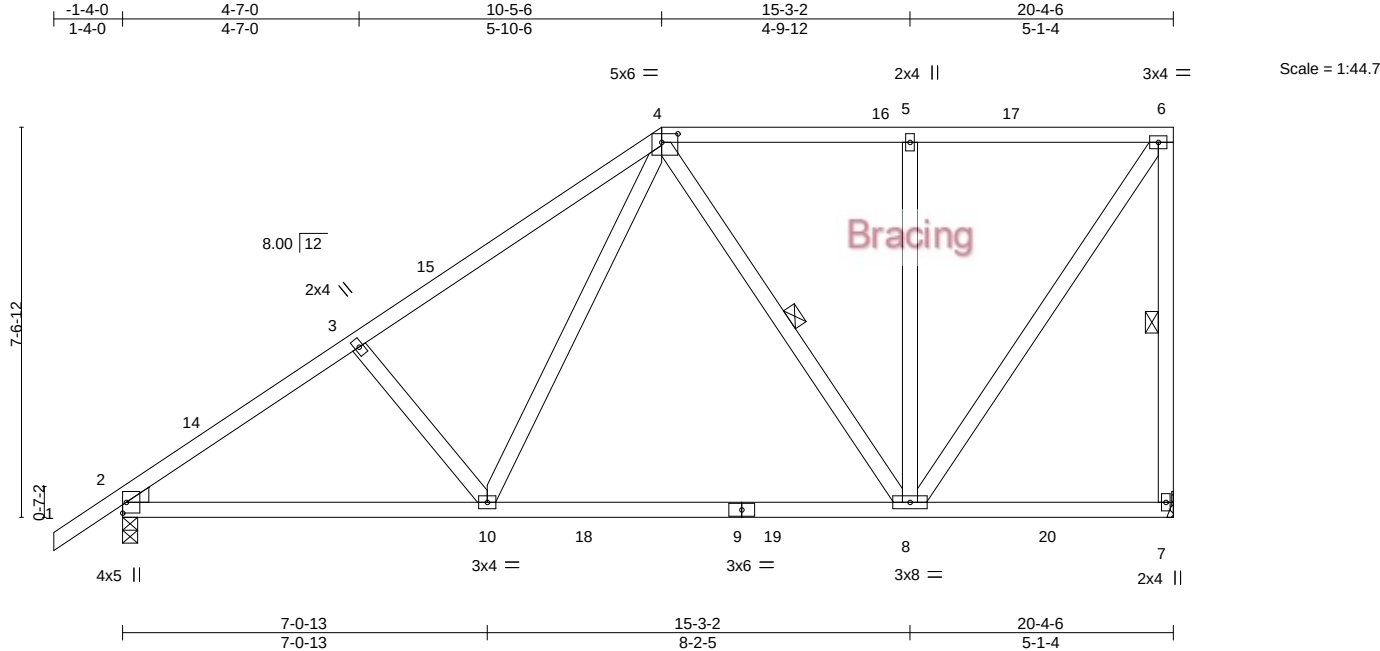


Plate Offsets (X,Y)--		[4:0-3-12,0-2-0]																		
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP										
	TCLL	20.0	Plate Grip DOL								1.25	TC	0.46	Vert(LL)	-0.17	8-10	>999	240	MT20	244/190
	TCDL	10.0	Lumber DOL								1.25	BC	0.66	Vert(CT)	-0.28	8-10	>869	180		
	BCLL	0.0 *	Rep Stress Incr								YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
	BCDL	10.0	Code								FBC2023/TPI2014	Matrix-MS								
										Weight: 130 lb	FT = 20%									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 4-8
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=299(LC 12)
Max Uplift 7=228(LC 9), 2=218(LC 12)
Max Grav 7=919(LC 2), 2=983(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1230/268, 3-4=-1098/278, 4-5=-510/141, 5-6=-510/141, 6-7=-845/236
BOT CHORD 2-10=-431/1043, 8-10=-232/619
WEBS 3-10=-302/226, 4-10=-140/593, 4-8=-262/166, 5-8=-341/180, 6-8=-248/895

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-5-6, Zone2 10-5-6 to 14-8-5, Zone1 14-8-5 to 20-2-10 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=228, 2=218.

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

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058015
4732393	T12	Half Hip	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:44 2025 Page 1

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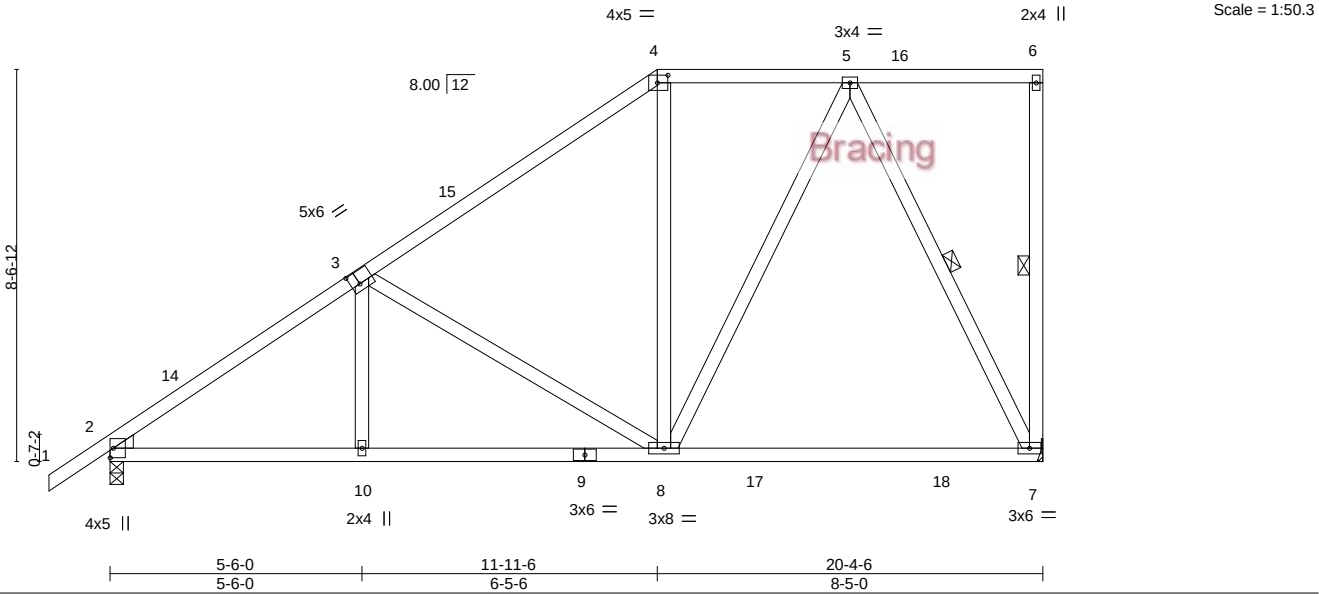
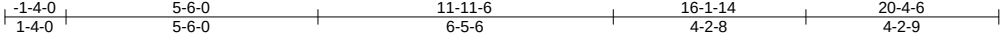


Plate Offsets (X,Y)--		[3:0-2-4,0-3-4], [4:0-2-12,0-2-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.46		Vert(LL)	-0.23 7-8	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.77		Vert(CT)	-0.36 7-8	>676	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.61		Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-MS						Weight: 134 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 5-7
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=338(LC 12)
Max Uplift 7=248(LC 12), 2=-207(LC 12)
Max Grav 7=906(LC 2), 2=985(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1216/234, 3-4=-771/164, 4-5=-565/200
BOT CHORD 2-10=-431/1032, 8-10=-430/1037, 7-8=-121/340
WEBS 3-8=-546/264, 5-8=-179/568, 5-7=-743/276

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-11-6, Zone2 11-11-6 to 16-1-14, Zone1 16-1-14 to 20-2-10 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=248, 2=207.

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

July 30,2025

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058016
4732393	T13	Half Hip	1	1		

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:44 2025 Page 1

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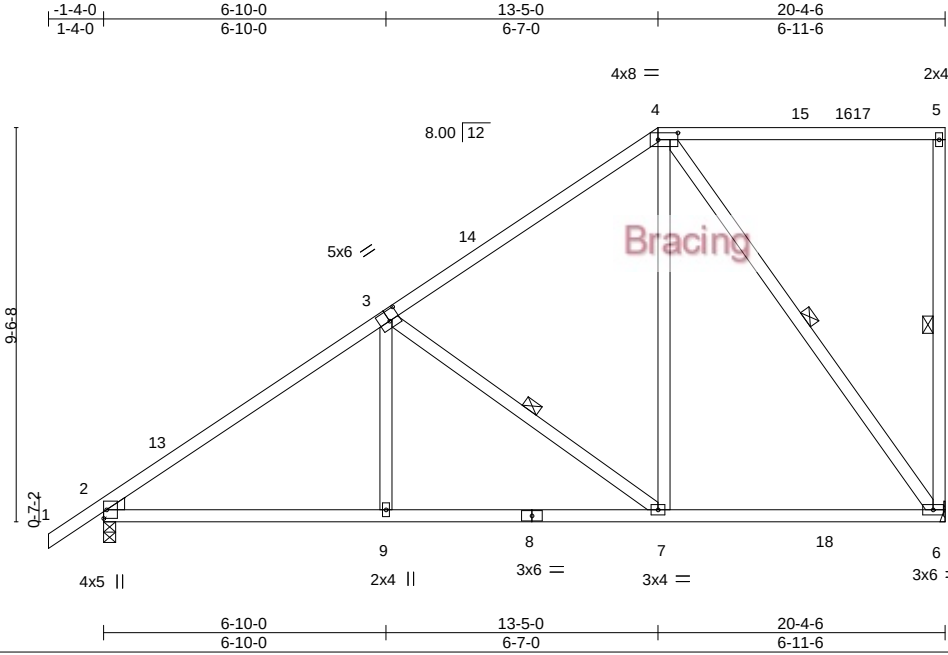


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [4:0-5-12,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.16	6-7	>999	180	Weight: 129 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS									

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-6, 3-7, 4-6
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=376(LC 12)
Max Uplift 6=273(LC 12), 2=193(LC 12)
Max Grav 6=901(LC 2), 2=998(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1181/193, 3-4=-656/133
BOT CHORD 2-9=-410/990, 7-9=-410/989, 6-7=-176/486
WEBS 3-9=0/268, 3-7=-632/290, 4-7=-119/672, 4-6=-806/293

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-5-0, Zone2 13-5-0 to 17-7-15, Zone1 17-7-15 to 20-2-10 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=273, 2=193.

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

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

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058017
4732393	T14	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:45 2025 Page 1
ID:Q1FFzpONOIYUal8R35ESM3yupsu-6bblyhtuZPvp14tStCDvILqnlr2MC_FtunwESytDXa
12-0-0 13-4-0
1-4-0 4-5-5 7-6-11 4-5-5 1-4-0

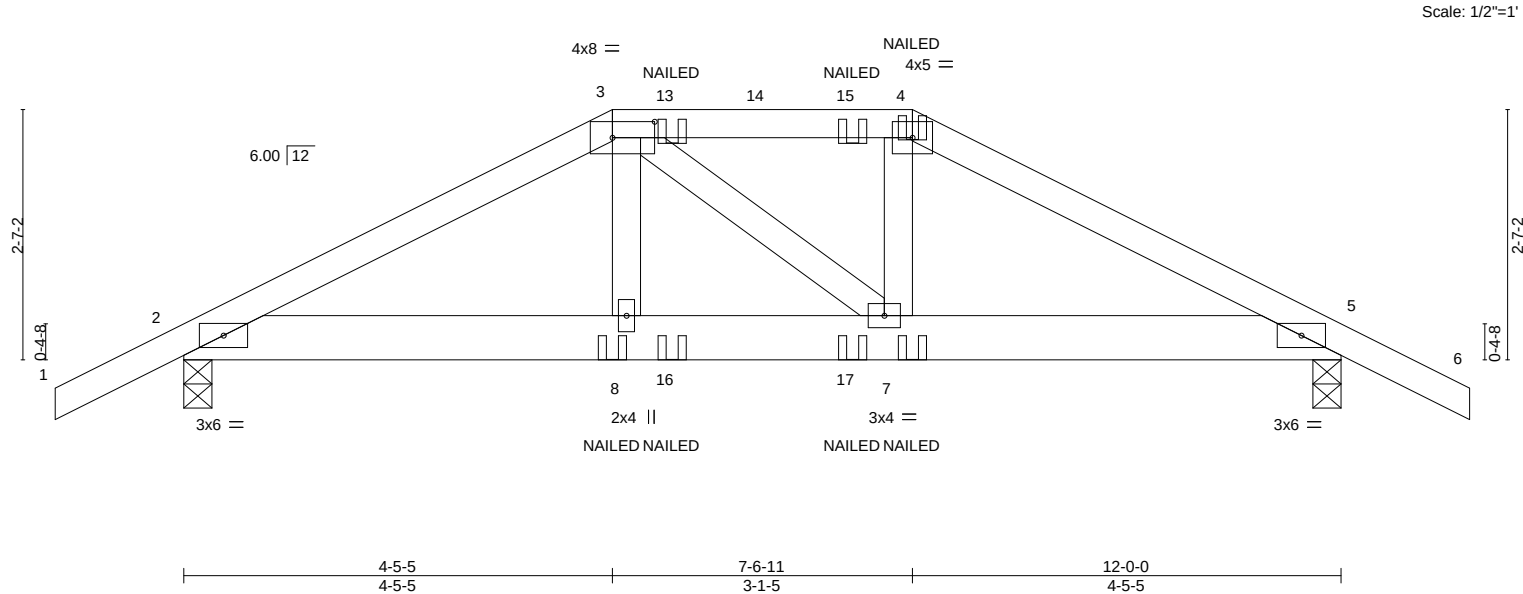


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.02 8 >999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.03 7-12 >999	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.01 5 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 62 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=48(LC 8)
Max Uplift 2=-221(LC 8), 5=-216(LC 9)
Max Grav 2=600(LC 1), 5=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/317, 3-4=-700/299, 4-5=-824/319
BOT CHORD 2-8=-251/703, 7-8=-253/713, 5-7=-238/710

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=221, 5=216.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 4=-12(B) 8=-16(B) 7=-16(B) 13=-7(B) 15=-7(B) 16=-12(B) 17=-12(B)

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Chesterfield, MO 63017
Date:

July 30,2025

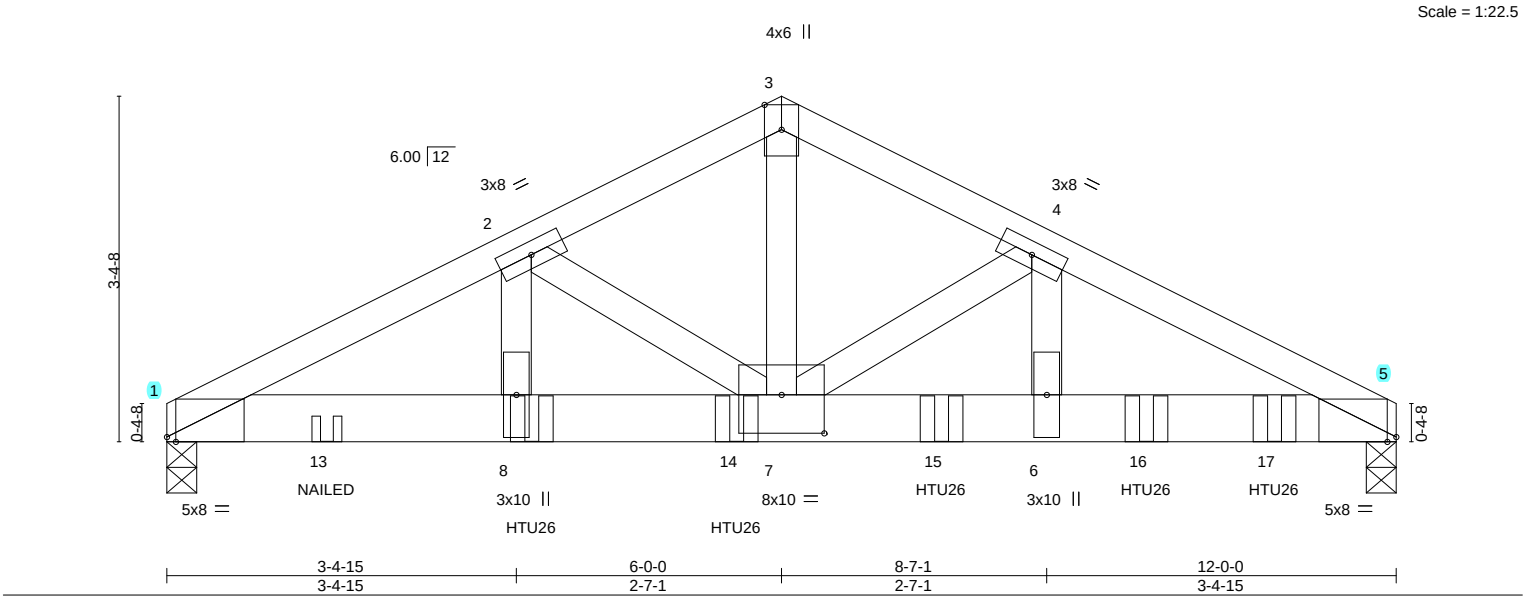
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058018
4732393	T15	Common Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:45 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-6bblyhtuZPvp14tStCDviLhXlpM2kFtunwESytDXa



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.09	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.18				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.05				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 64 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-0-3 oc purlins.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 8-1-4 oc bracing.
WEBS	2x4 SP No.3 *Except*		
	3-7: 2x4 SP No.2		

REACTIONS. (size) 1=0-3-8, 5=0-3-8 (req. 0-3-13)
Max Horz 1=50(LC 12)
Max Uplift 1=818(LC 8), 5=844(LC 9)
Max Grav 1=2773(LC 1), 5=3228(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5539/1657, 2-3=-3861/1094, 3-4=-3868/1097, 4-5=-5368/1433
BOT CHORD 1-8=-1487/4926, 7-8=-1487/4926, 6-7=-1242/4794, 5-6=-1242/4794
WEBS 3-7=-904/3232, 4-7=-1623/435, 4-6=-304/1394, 2-7=-1781/668, 2-8=-547/1602

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=818, 5=844.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-6-12 from the left end to 10-9-12 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 8=-1710(F) 13=-111(F) 14=-805(F) 15=-805(F) 16=-805(F) 17=-805(F)

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	T16	Common Girder	1	2	

T38058019

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:46 2025 Page 1

ID:Q1FFZpONoiYUal8R35ESM3yupsu-ao9gA0uXKi2gfESeRvk8EYI?y95h5ZIO6YWUumuyDXZ

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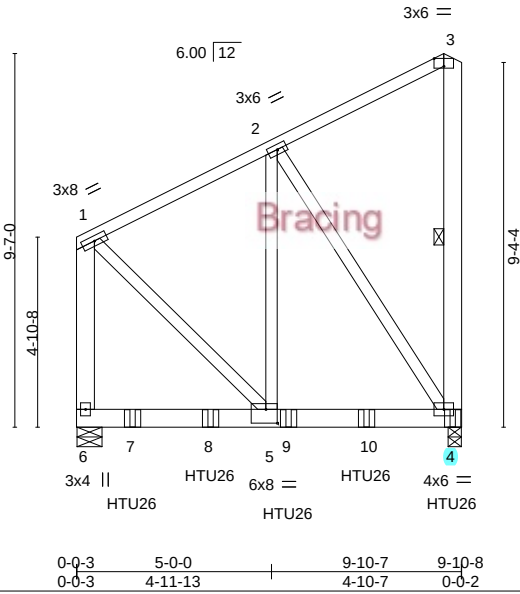


Plate Offsets (X,Y)--		[3:0-3-0,Edge], [5:0-3-8,0-4-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15
TCDL 10.0	Lumber DOL	1.25	BC 0.59
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.03 5-6 >999 240
			Vert(CT) -0.05 5-6 >999 180
			Horz(CT) 0.00 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 202 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-4
1-6,3-4: 2x6 SP No.2	

REACTIONS. (size) 6=0-7-11, 4=0-4-1
Max Horz 6=182(LC 8)
Max Uplift 6=431(LC 8), 4=936(LC 8)
Max Grav 6=2263(LC 2), 4=2800(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1122/219, 1-6=-1447/280
BOT CHORD 4-5=-328/960
WEBS 2-5=-429/1681, 1-5=-217/1236, 2-4=-1699/580

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=431, 4=936.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-2-8 oc max. starting at 1-5-4 from the left end to 9-7-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058019
4732393	T16	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:46 2025 Page 2
ID:Q1FFzpONOiYUal8R35ESM3yupsu-ao9gA0uXKi2gfESeRvk8EYI?y95h5ZIO6YWUumuytDXZ

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 4=-794(B) 7=-792(B) 8=-792(B) 9=-786(B) 10=-786(B)

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058020
4732393	T17	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:47 2025 Page 1				
				ID:Q1FFzpONoiYUal8R35ESM3yupsu-2_j2NMv950AXGO1q_cFNmq3mZTHqzdYKCG1IKytDXY				
1-4-0	6-7-12	14-1-0	19-11-0	25-11-0	31-9-0	39-2-4	45-10-0	47-2-0
1-4-0	6-7-12	7-5-4	5-10-0	6-0-0	5-10-0	7-5-4	6-7-12	1-4-0

Scale = 1:80.3

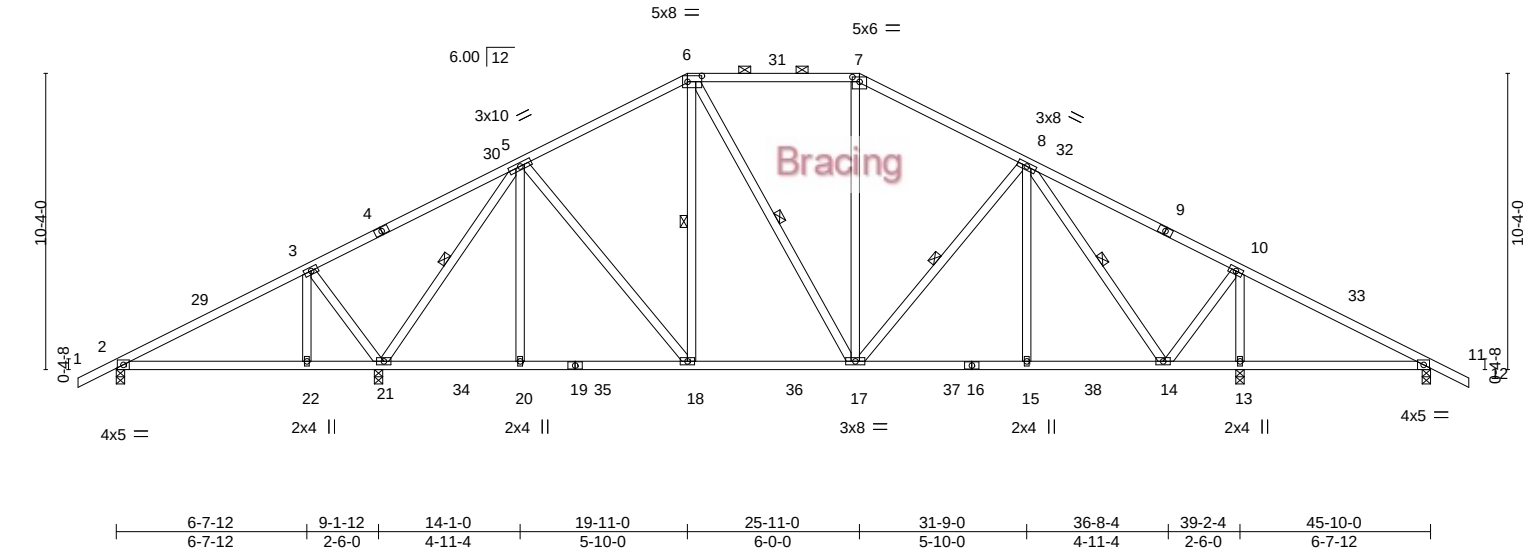


Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [7:0-3-0,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.07 22-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.12 22-25	>935	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.04 13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 286 lb	FT = 20%

LUMBER-	BRAACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (5-2-9 max.): 6-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	6-0-0 oc bracing: 13-14,11-13.
	WEBS 1 Row at midpt 5-21, 6-18, 6-17, 8-17, 8-14

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=178(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-111(LC 8), 21=-452(LC 12), 13=-401(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=379(LC 25), 21=1882(LC 2), 13=1752(LC 2), 11=262(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-54/374, 5-6=-1056/317, 6-7=-946/354, 7-8=-1129/353, 8-10=-654/236
BOT CHORD 20-21=-103/734, 18-20=-103/734, 17-18=-62/890, 15-17=-64/1013, 14-15=-64/1013
WEBS 3-21=-551/303, 5-21=-1633/327, 5-20=0/304, 5-18=-41/313, 8-15=0/314, 8-14=-900/135, 10-14=-102/1017, 10-13=-1507/404

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-3-0, Zone1 3-3-0 to 19-11-0, Zone3 19-11-0 to 25-11-0, Zone2 25-11-0 to 32-4-12, Zone1 32-4-12 to 47-2-0 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.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=111, 21=452, 13=401.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

July 30,2025

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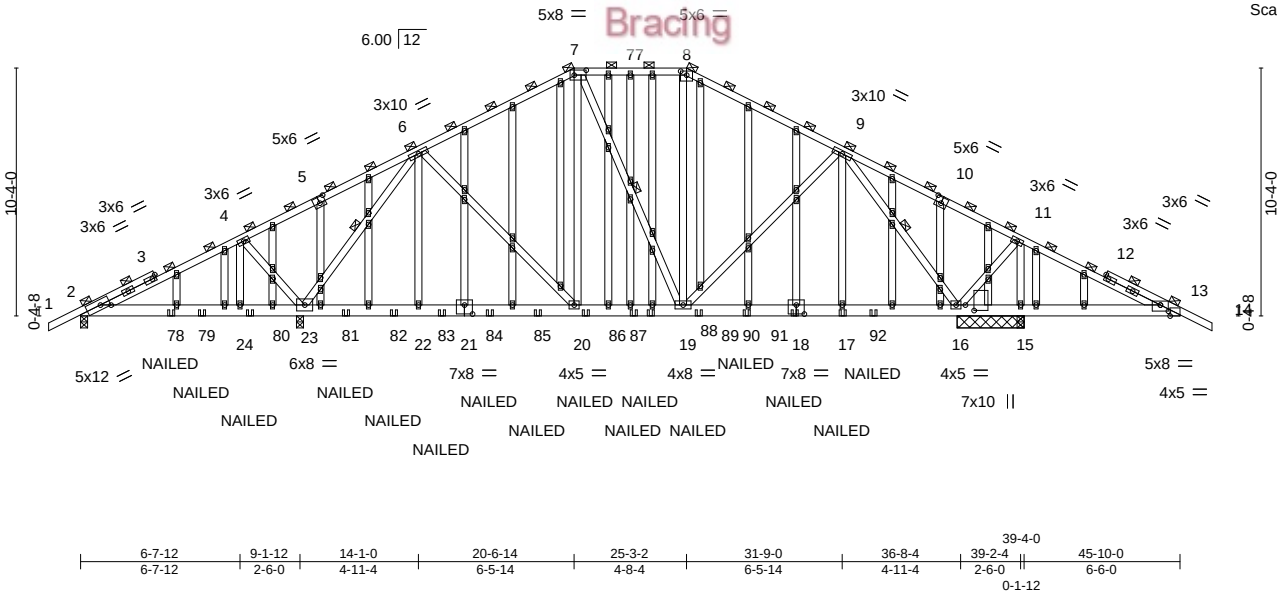
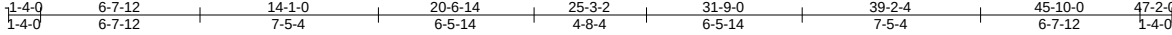
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058021
4732393	T17G	GABLE	1	1	Job Reference (optional)	

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8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:49 2025 Page 1

ID:Q1FFzpONoiYuaI8R35ESM3yupsu-?Nqpo2wPddQFWbBD61HrsBwNuMA5IsyroW8NDytDXW



Scale: 1/8"=1'

Plate Offsets (X,Y)--	[2:0-4-12,Edge], [5:0-3-0,0-3-0], [7:0-6-0,0-2-8], [8:0-3-0,0-2-0], [10:0-3-0,0-3-0], [13:0-4-0,0-3-1], [13:0-4-14,Edge], [16:0-2-12,0-4-5], [18:0-4-0,0-4-8], [21:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.06 20-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.10 20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.02 16	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 489 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-11-13 max.).
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 15-16,13-15.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 6-23, 7-19, 9-16

REACTIONS. All bearings 0-3-8 except (jt=length) 16=2-9-8.
(lb) - Max Horz 2=-178(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-114(LC 8), 23=-935(LC 8), 15=-328(LC 30), 16=-594(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=415(LC 21), 23=2228(LC 35), 15=1051(LC 16), 16=1442(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-179/510, 6-7=-1120/524, 7-8=-926/524, 8-9=-1117/537, 9-11=-97/541, 11-13=-240/830
BOT CHORD 22-23=-270/873, 20-22=-270/873, 19-20=-271/1050, 17-19=-211/826, 16-17=-211/826, 15-16=-670/286, 13-15=-670/286
WEBS 4-24=-161/381, 4-23=-690/375, 6-23=-1940/777, 6-22=-115/427, 6-20=-101/293, 7-20=-126/275, 8-19=-151/274, 9-19=-80/286, 9-17=-125/455, 9-16=-1986/735, 11-16=-46/443, 11-15=-871/312

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 114 lb uplift at joint 2, 935 lb uplift at joint 23, 328 lb uplift at joint 15 and 594 lb uplift at joint 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

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

Date: July 30,2025

Continue on Page 6 CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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MiTek®

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	T17G	GABLE	1	1	T38058021

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:49 2025 Page 2
ID:Q1FFzpONoiYUal8R35ESM3yupsu-?Nqpo2wPddQFWHBD61HrsBwNuMA5IsyroWI8NDytDXW

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-60, 7-8=-60, 8-14=-60, 71-74=-20

Concentrated Loads (lb)

Vert: 17=-59(F) 18=-59(F) 78=-92(F) 79=-59(F) 80=-59(F) 81=-59(F) 82=-59(F) 83=-59(F) 84=-59(F) 85=-59(F) 86=-59(F) 87=-59(F) 88=-59(F) 89=-59(F) 90=-59(F)
92=-92(F)

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

July 30,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058022
4732393	T18	Piggyback Base	5	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:50 2025 Page 1
ID:Q1FFzpONoiYUal8R35ESM3yupsu-TZOB?Ox1OxY57rmPglo4POSaemS_1Nh_0AUhvytDXV
1-4-0 6-6-12 9-3-8 14-1-0 19-11-0 25-11-0 31-9-0 39-0-8 45-10-0 47-2-0
1-4-0 6-6-12 2-8-12 4-9-8 5-10-0 6-0-0 5-10-0 7-3-8 6-9-8 1-4-0
Scale = 1:81.8

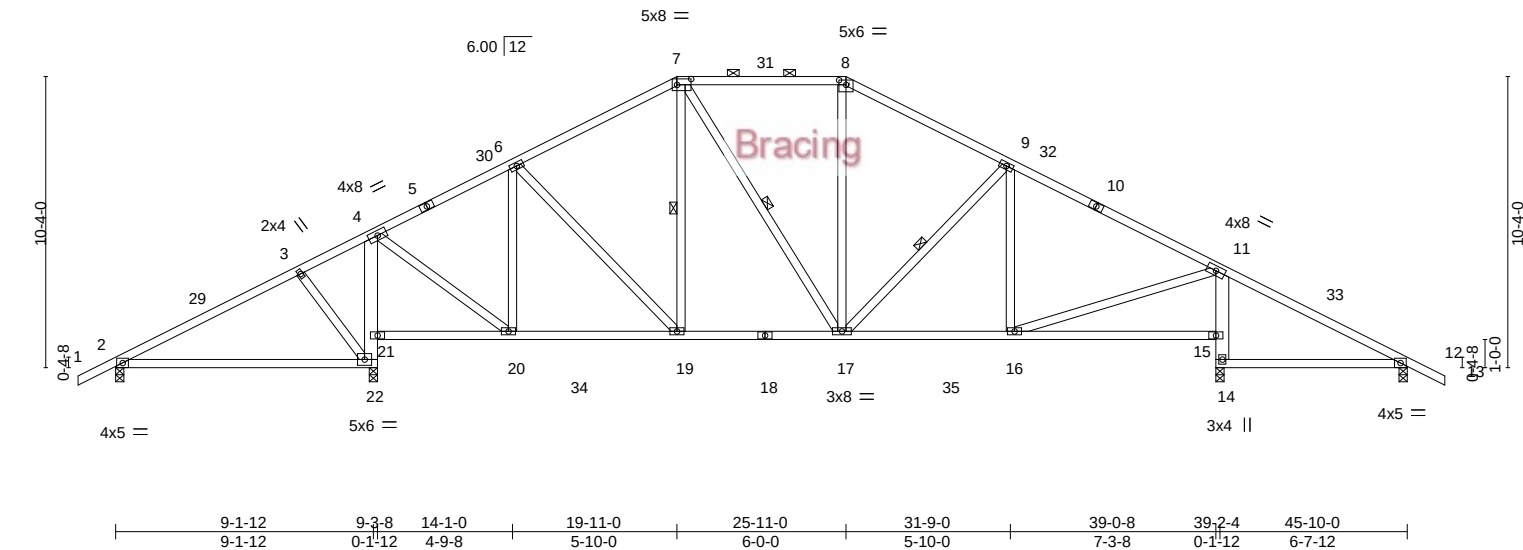


Plate Offsets (X,Y)-- [7:0-6-0,0-2-8], [8:0-3-0,0-2-0]		9-1-12 9-1-12 9-3-8 0-1'-12 14-1-0 4-9-8 19-11-0 5-10-0 25-11-0 6-0-0 31-9-0 5-10-0 39-0-8 7-3-8 39-2-4 0-1'-12 45-10-0 6-7-12	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62
TCDL 10.0	Lumber DOL	1.25	BC 0.64
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.20 22-25 >543 240
			Vert(CT) -0.37 22-25 >295 180
			Horz(CT) 0.02 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 274 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-10-0 max.): 7-8.
4-22,11-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-10-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-19, 7-17, 9-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=178(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=165(LC 8), 14=371(LC 13), 12=126(LC 13), 22=437(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=435(LC 27), 14=1655(LC 2), 12=309(LC 26), 22=1756(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-262/224, 4-6=-1082/307, 6-7=-1230/355, 7-8=-1101/391, 8-9=-1301/394, 9-11=-1492/390
BOT CHORD 21-22=-1334/297, 4-21=-1254/308, 19-20=-147/924, 17-19=-92/1039, 16-17=-133/1255, 14-15=-1527/377, 11-15=-1402/397
WEBS 3-22=-352/198, 4-20=-208/1187, 6-20=-511/159, 8-17=-50/297, 9-17=-258/185, 11-16=-136/1290

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-3-0, Zone1 3-3-0 to 19-11-0, Zone3 19-11-0 to 25-11-0, Zone2 25-11-0 to 32-4-12, Zone1 32-4-12 to 47-2-0 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.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 165 lb uplift at joint 2, 371 lb uplift at joint 14, 126 lb uplift at joint 12 and 437 lb uplift at joint 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058023
4732393	T19	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:51 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-xlyZDkyf8FgyI?LcDSKJxc?IfAoDmpr8FqEFR6ytDXU
1-4-0 6-6-12 9-3-8 14-1-0 19-11-0 25-11-0 28-0-4 31-9-0 39-2-4 45-10-0 47-2-0
1-4-0 6-6-12 2-8-12 4-9-8 5-10-0 6-0-0 2-1-4 3-8-12 7-5-4 6-7-12 1-4-0

Scale = 1:81.8

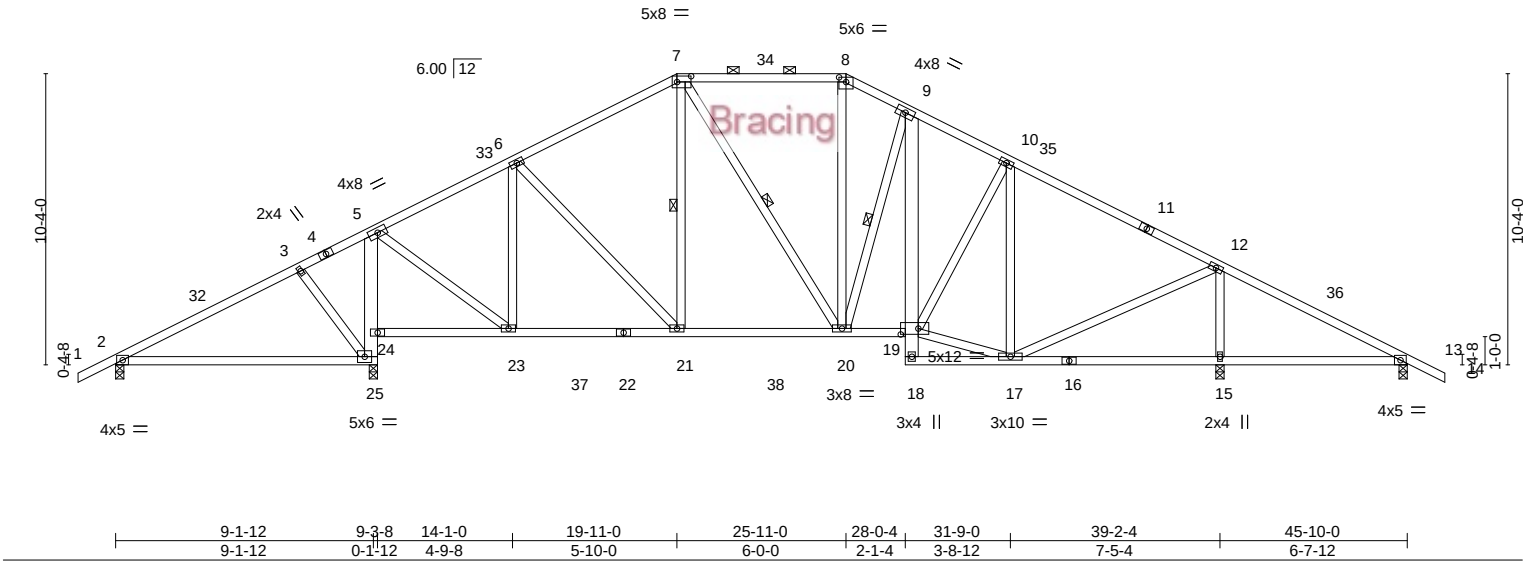


Plate Offsets (X,Y)--		[7:0-6-0,0-2-8], [8:0-3-0,0-2-0], [19:0-7-8,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60
TCDL 10.0	Lumber DOL	1.25	BC 0.64
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.20 25-28	>543	240
Vert(CT)	-0.37 25-28	>295	180
Horz(CT)	0.03 15	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 308 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-11-5 max.): 7-8.
WEBS 5-25,9-18: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS 1 Row at midpt 7-21, 7-20, 9-20

REACTIONS.	All bearings 0-3-8.
(lb) - Max Horz	2=178(LC 16)
Max Uplift	All uplift 100 lb or less at joint(s) except 2=165(LC 8), 25=432(LC 12), 15=405(LC 13), 13=103(LC 8)
Max Grav	All reactions 250 lb or less at joint(s) except 2=437(LC 27), 25=1730(LC 2), 15=1697(LC 2), 13=277(LC 26)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-264/225, 5-6=-1065/302, 6-7=-1201/346, 7-8=-1057/378, 8-9=-1183/393, 9-10=-1294/407, 10-12=-1203/345
BOT CHORD	24-25=-1308/293, 5-24=-1227/304, 21-23=-143/908, 20-21=-87/1014, 19-20=-72/1108
WEBS	3-25=-352/198, 5-23=-203/1160, 6-23=-503/156, 8-20=-58/299, 17-19=-74/938, 10-19=-37/264, 10-17=-576/133, 12-17=-154/1160, 12-15=-1403/433

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-4-0 to 3-3-0, Zone1 3-3-0 to 19-11-0, Zone3 19-11-0 to 25-11-0, Zone2 25-11-0 to 32-4-12, Zone1 32-4-12 to 47-2-0 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.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 165 lb uplift at joint 2, 432 lb uplift at joint 25, 405 lb uplift at joint 15 and 103 lb uplift at joint 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

July 30,2025

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Job	Truss	Truss Type	Qty	Ply	BURK RES.
4732393	T21G	GABLE	1	1	T38058026

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

8.830 s Jun 11 2025
MiTek Industries, Inc.
Tue Jul 29 11:21:54 2025
Page 2
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- NOTES-**
- 11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=405, 13=328, 16=312, 15=543.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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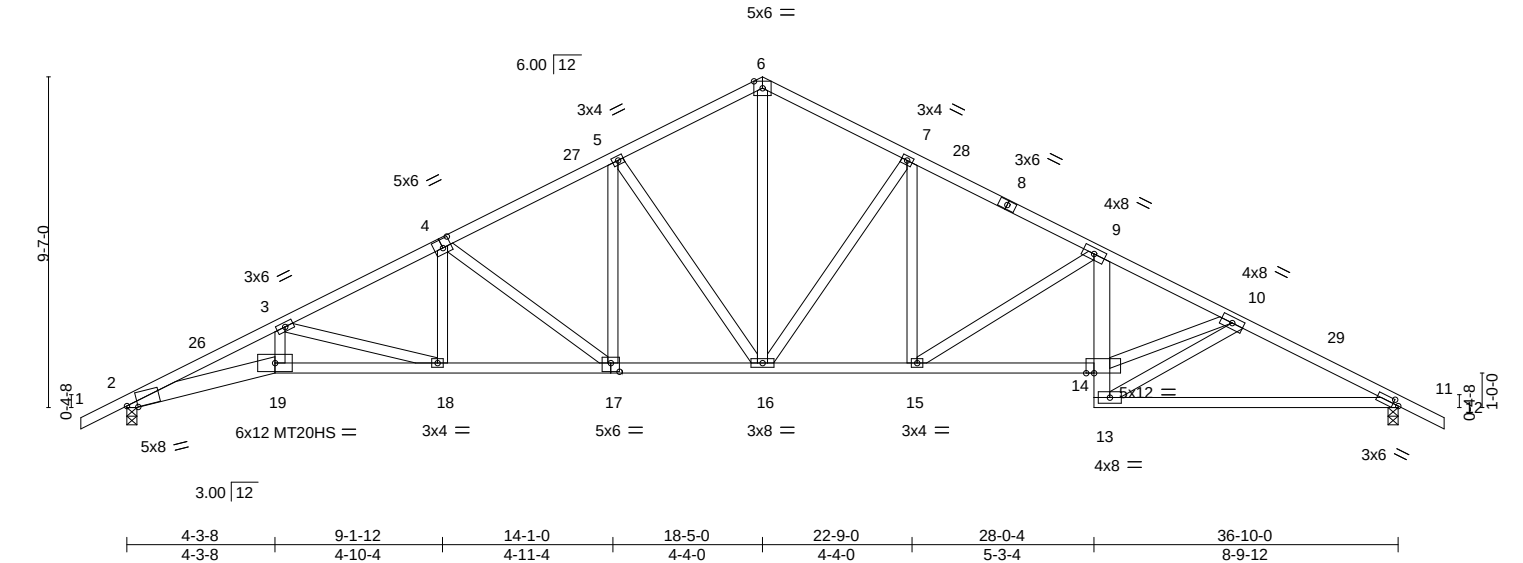
Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058027
4732393	T22	Roof Special	3	1		

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ID:Q1FFZpONoiYUal8R35ESM3yupsu-pXC435?ACTAOEceNSIOF6S9UHn5tiYwjASCSatytdXQ

1-4-0	4-3-8	9-1-12	14-1-0	18-5-0	22-9-0	28-0-4	32-2-3	36-10-0	38-2-0
1-4-0	4-3-8	4-10-4	4-11-4	4-4-0	4-4-0	5-3-4	4-1-15	4-7-13	1-4-0

Scale = 1:66.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.28 17 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.55 16-17 >799 180	MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.32 11 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 228 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-4-1 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 5-9-14 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=165(LC 12)
Max Uplift 2=383(LC 12), 11=383(LC 13)
Max Grav 2=1553(LC 1), 11=1553(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5046/1259, 3-4=-3193/757, 4-5=-2436/582, 5-6=-1901/477, 6-7=-1903/493,
7-9=-2445/548, 9-10=-3096/693, 10-11=-2819/673
BOT CHORD 2-19=-1243/4597, 18-19=-1181/4359, 17-18=-688/2833, 16-17=-429/2110,
15-16=-319/2119, 14-15=-514/2935, 13-14=-218/1152, 9-14=-87/515, 11-13=-520/2473
WEBS 3-19=-251/1068, 3-18=-1590/513, 4-18=-110/549, 4-17=-889/319, 5-17=-158/609,
5-16=-805/320, 6-16=-344/1409, 7-16=-820/312, 7-15=-135/602, 9-15=-955/321,
10-14=-357/2119, 10-13=-2055/460

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-4-3, Zone1 2-4-3 to 18-5-0, Zone2 18-5-0 to 23-7-8, Zone1 23-7-8 to 38-2-0 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.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=383, 11=383.

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

July 30,2025

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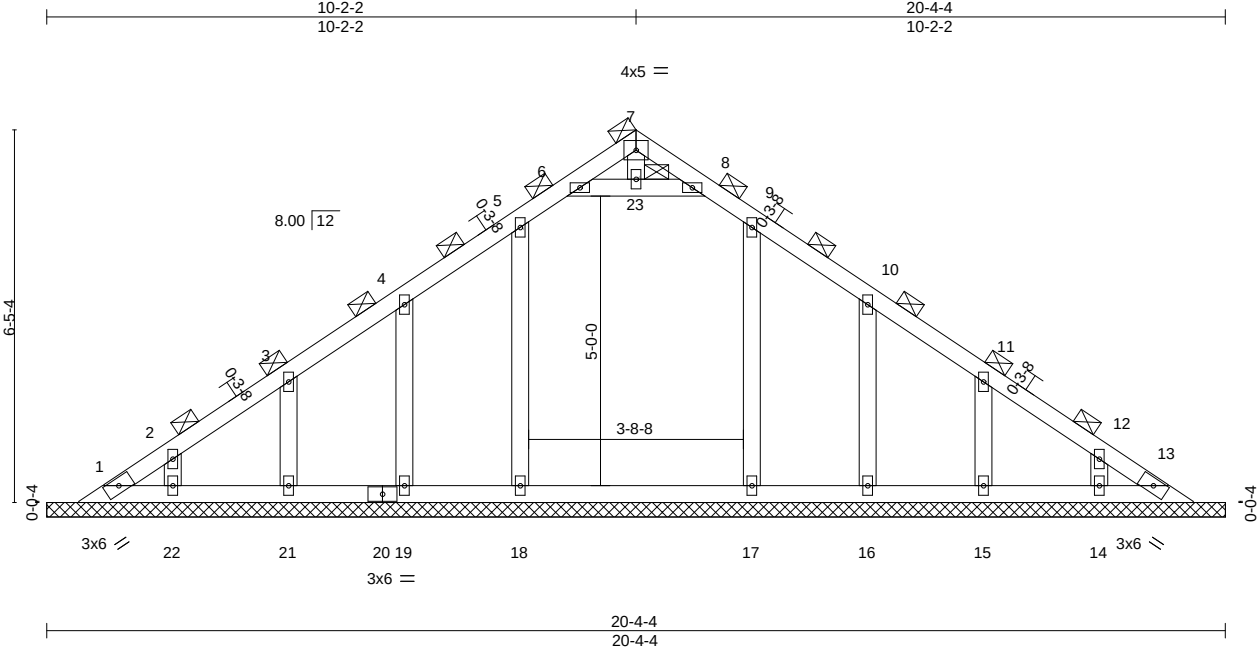
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058028
4732393	V01	GABLE	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:55 2025 Page 1

ID:Q1FFZpONoiYUal8R35ESM3yupsu-pXC435?ACTAOEceNSIOF6S9a7nGwikVjASCsatyDXQ



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	13	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 7, 23
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 20-4-4.
(lb) - Max Horz	1=151(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 13, 18, 19, 21, 22, 17, 16, 15, 14
Max Grav	All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 16, 15, 14 except 18=323(LC 19), 17=304(LC 20)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-1 to 4-2-2, Zone1 4-2-2 to 10-2-2, Zone2 10-2-2 to 14-2-2, Zone1 14-2-2 to 19-4-3 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 19, 21, 22, 17, 16, 15, 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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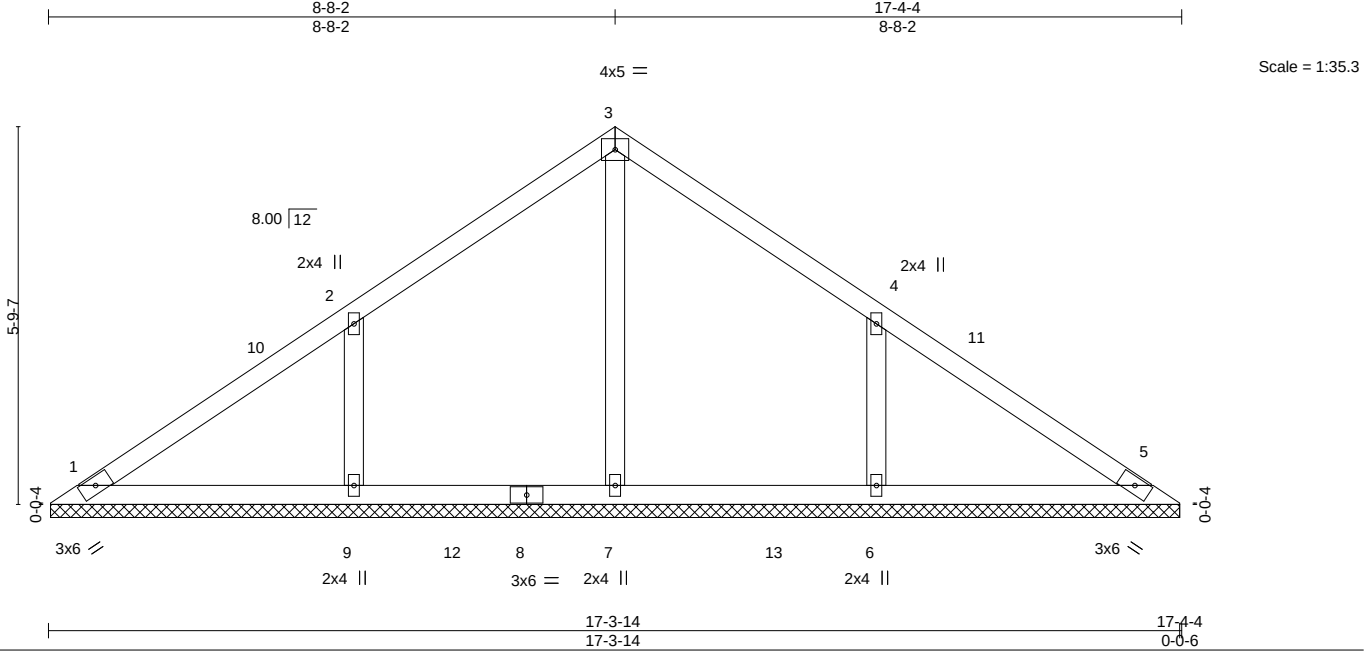
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058029
4732393	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:56 2025 Page 1
ID:Q1FFZpONOIYUal8R35ESM3yupsu-HjiSGR0oznIFrmDZ0?vUefiiABctRANtP5x07JytDXP



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 17-3-8.
(lb) - Max Horz 1=135(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=206(LC 12), 6=206(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=338(LC 19), 9=496(LC 19), 6=496(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-316/226, 4-6=-316/226

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 8-8-2, Zone2 8-8-2 to 12-8-2, Zone1 12-8-2 to 16-10-7 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=206, 6=206.

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

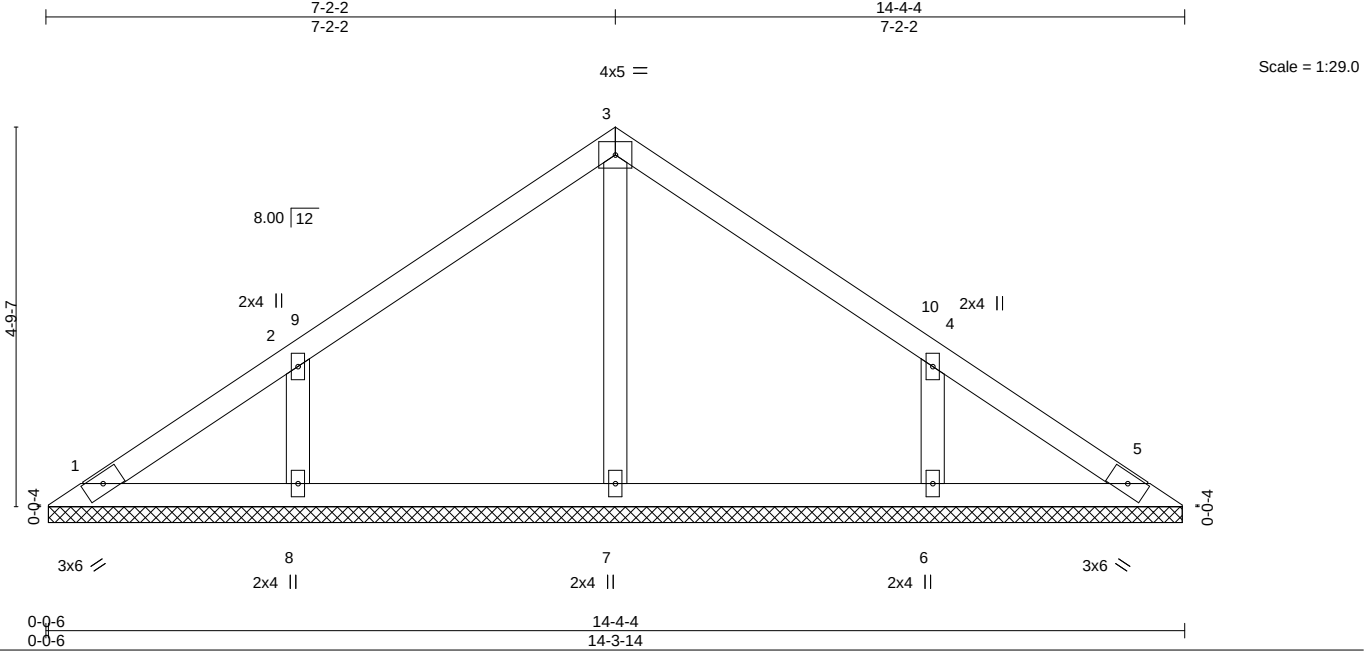
July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058030
4732393	V03	Valley	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:57 2025 Page 1

ID:Q1FFzpONOiYUal8R35ESM3yupsu-mvJqTn0Qk5Q6TwolajQjBtFu0bzjAdz0dlhZflytDXO



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 56 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-3-8.
(lb) - Max Horz 1=110(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-170(LC 12), 6=-170(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=337(LC 19), 6=337(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-262/190, 4-6=-262/190

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 7-2-2, Zone2 7-2-2 to 11-2-2, Zone1 11-2-2 to 13-10-7 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=170, 6=170.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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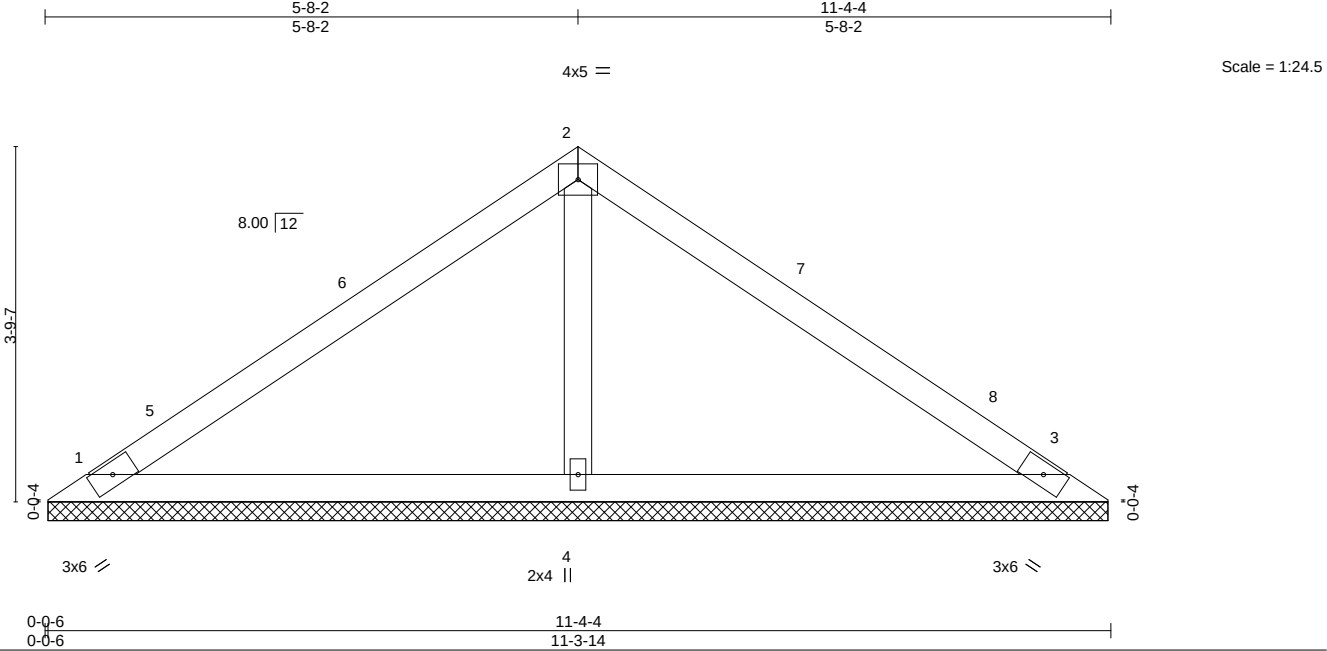
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058031
4732393	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:57 2025 Page 1
ID:Q1FFZpONOIYUal8R35ESM3yupsu-mvJqTn0Qk5Q6TwolajQjBtFrwbwKAdy0dlhZflytDXO



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 1=11-3-8, 3=11-3-8, 4=11-3-8 Max Horz 1=-86(LC 8) Max Uplift 1=-60(LC 12), 3=-71(LC 13), 4=-69(LC 12) Max Grav 1=205(LC 1), 3=205(LC 1), 4=422(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-4=-268/131

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 5-8-2, Zone2 5-8-2 to 9-11-0, Zone1 9-11-0 to 10-10-7 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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July 30,2025

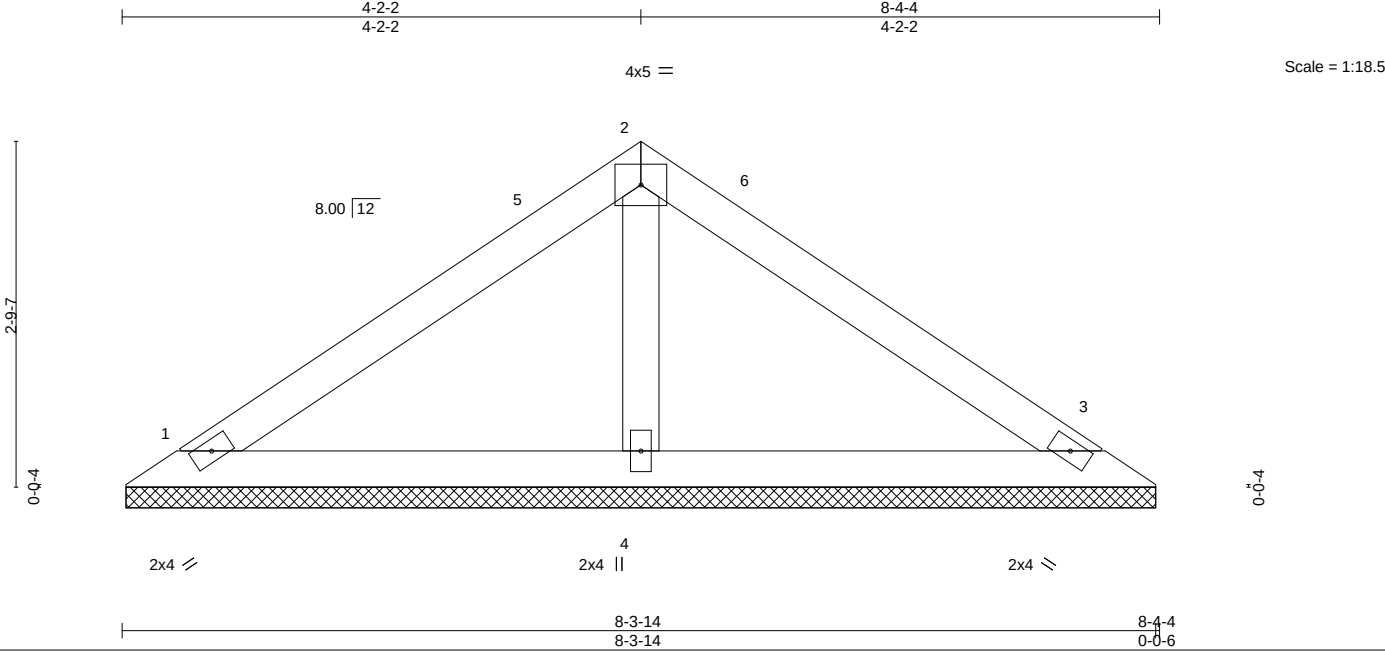
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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058032
4732393	V05	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:58 2025 Page 1
ID:Q1FFZpONoiYUal8R35ESM3yupsu-E6tDh712VOYz54Ny8Qyyk4n2c?lev5kAsPQ7BCytDXN



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS.	(size)	1=8-3-8, 3=8-3-8, 4=8-3-8
	Max Horz	1=-61(LC 10)
	Max Uplift	1=-43(LC 12), 3=-51(LC 13), 4=-49(LC 12)
	Max Grav	1=145(LC 1), 3=145(LC 1), 4=300(LC 1)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 4-2-2, Zone3 4-2-2 to 7-10-7 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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

July 30,2025

Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058033
4732393	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:58 2025 Page 1

ID:Q1FFzpONoiYUal8R35ESM3yupsu-E6tDh712VOYz54Ny8Qyyk4n3g?K0v5wAsPQ7BCytDXN

2-8-2

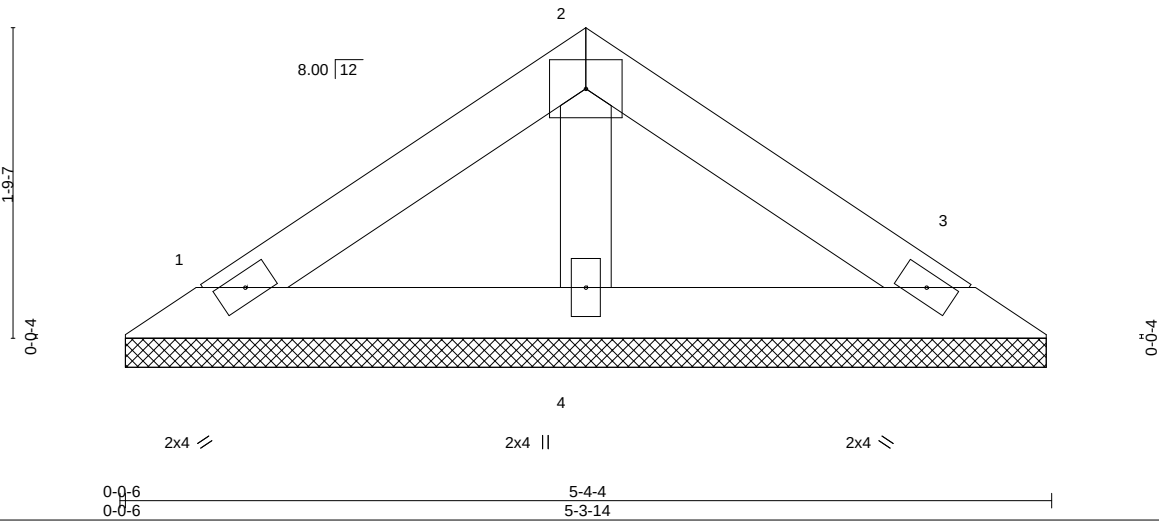
2-8-2

5-4-4

2-8-2

4x5 =

Scale = 1:13.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 1=5-3-8, 3=5-3-8, 4=5-3-8
Max Horz 1=-36(LC 10)
Max Uplift 1=-31(LC 12), 3=-35(LC 13), 4=-19(LC 12)
Max Grav 1=95(LC 1), 3=95(LC 1), 4=162(LC 1)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Chesterfield, MO 63017
Date:

July 30,2025

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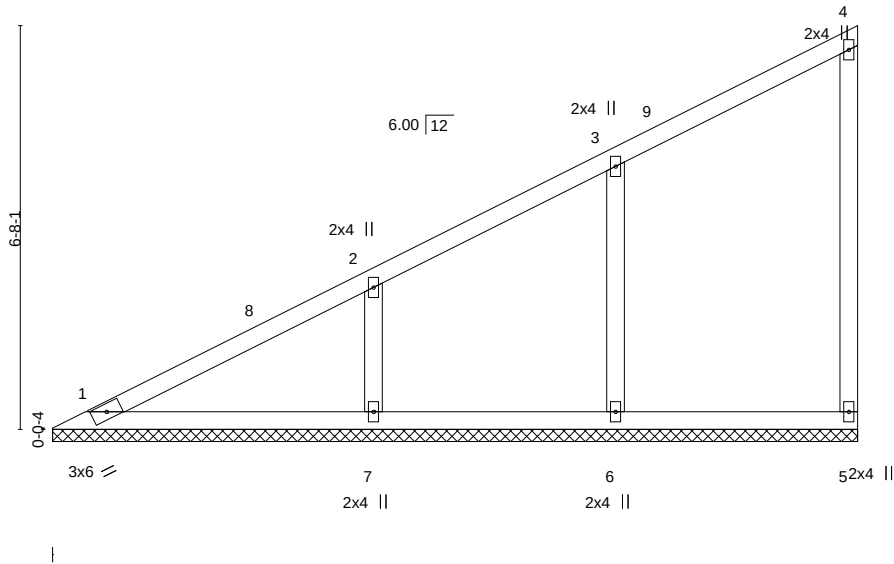
Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058034
4732393	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:58 2025 Page 1

ID:Q1FFZpONoiYUaI8R35ESM3yupsu-E6tDh712VOYz54Ny8Qyyk4n0G?I4v4tAsPQ7BCytDXN

5-4-25-4-24-0-09-4-213-4-24-0-0

Scale = 1:38.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 59 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-3-10.
(lb) - Max Horz 1=243(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-134(LC 12), 7=-170(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=373(LC 2), 7=421(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-292/196

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 13-2-6 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=134, 7=170.

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.
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July 30,2025

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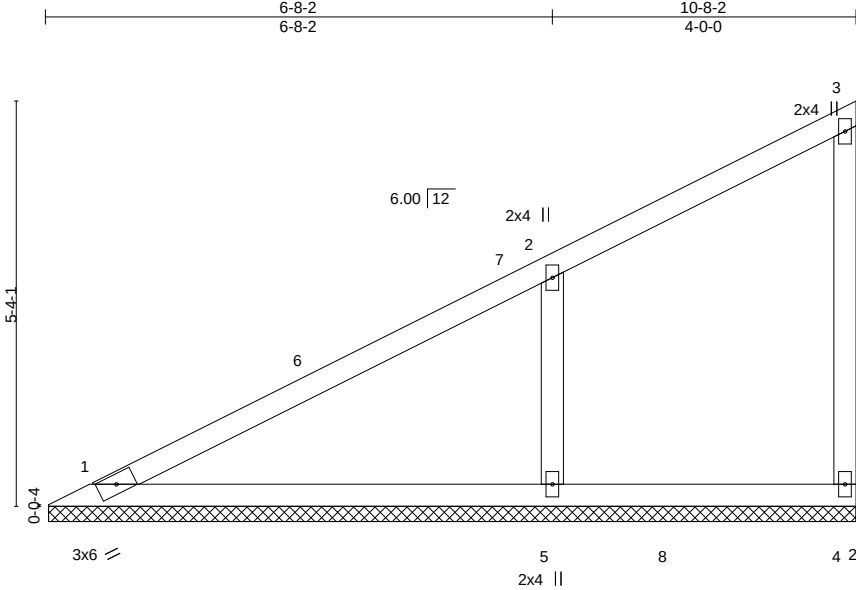
Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058035
4732393	V08	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:59 2025 Page 1

ID:Q1FFzpONoiYUal8R35ESM3yupsu-iiRbuT2gGigqiEy8h8TBGIK9EOcleXCJ53AgieyDXM



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 1=10-7-10, 4=10-7-10, 5=10-7-10
Max Horz 1=166(LC 12)
Max Uplift 1=-1(LC 12), 4=-20(LC 14), 5=-181(LC 12)
Max Grav 1=208(LC 2), 4=111(LC 2), 5=558(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-373/237

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 10-6-6 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=181.

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MiTek Inc. DBA MiTek USA FL Cert 6634
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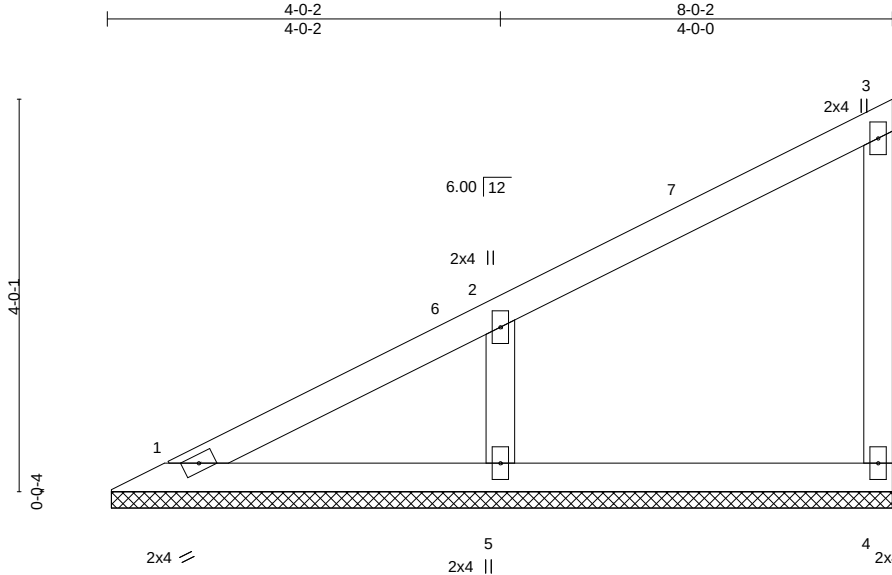
Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058036
4732393	V09	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 11:21:59 2025 Page 1

ID:Q1FFzpONoiYUal8R35ESM3yupsu-iiRbuT2gGigqiEy8h8TBGIKDAOf3eYdJ53AgieyDXM



Scale = 1:23.5

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.18		Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.12		Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06		Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 31 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 1=7-11-10, 4=7-11-10, 5=7-11-10
Max Horz 1=129(LC 12)
Max Uplift 4=-34(LC 12), 5=-140(LC 12)
Max Grav 1=103(LC 1), 4=126(LC 1), 5=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-260/211

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 7-10-6 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=140.

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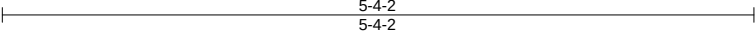
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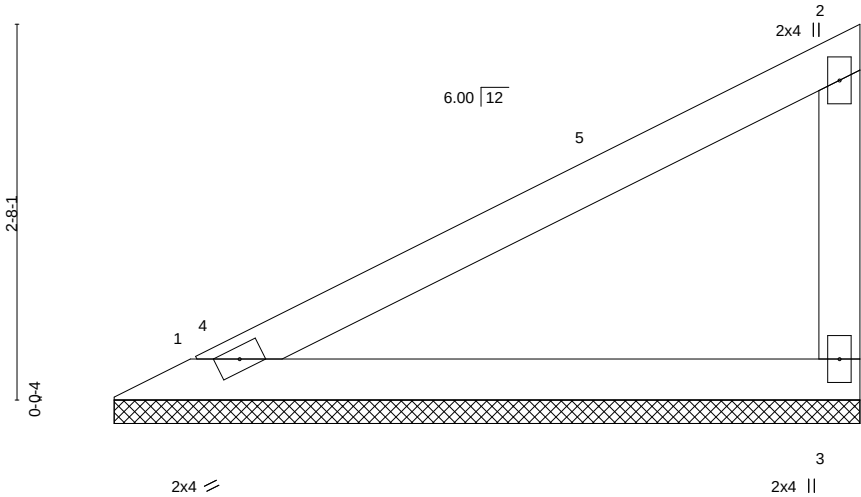
Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058037
4732393	V10	Valley	2	1	Job Reference (optional)	

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ID:Q1FFZpONoiYUal8R35ESM3yupsu-AU?z6p3J10ohKOKFr_QpVtLwoxEN?rSKjvDG4ytDXL



Scale = 1:16.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P					Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=5-3-10, 3=5-3-10
Max Horz 1=88(LC 12)
Max Uplift 1=-33(LC 12), 3=-77(LC 12)
Max Grav 1=183(LC 1), 3=183(LC 1)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-2-6 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Job	Truss	Truss Type	Qty	Ply	BURK RES.	T38058038
4732393	V11	Valley	2	1	Job Reference (optional)	

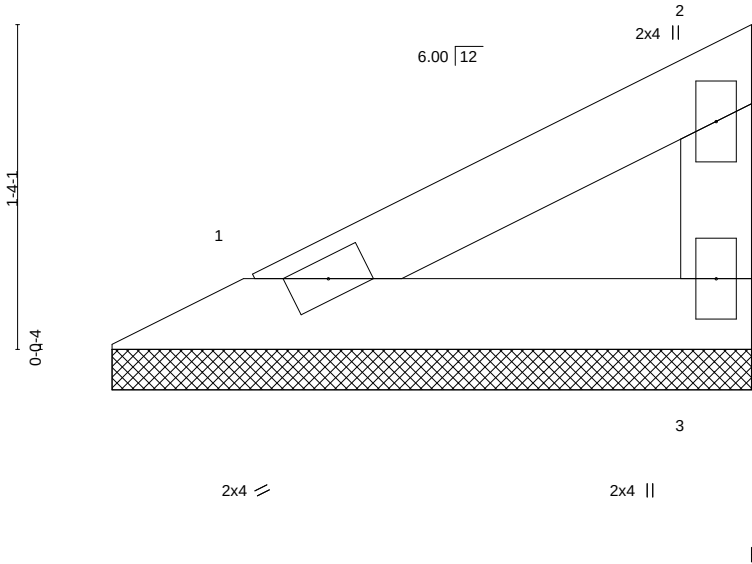
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Tue Jul 29 11:22:00 2025
Page 1

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2-8-2
2-8-2

Scale = 1:9.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 8 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=2-7-10, 3=2-7-10
Max Horz 1=37(LC 12)
Max Uplift 1=-14(LC 12), 3=-32(LC 12)
Max Grav 1=76(LC 1), 3=76(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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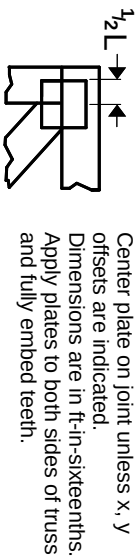
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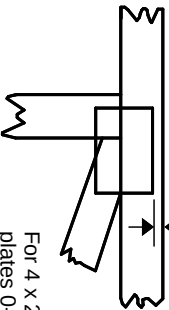
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

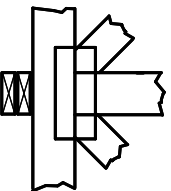
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

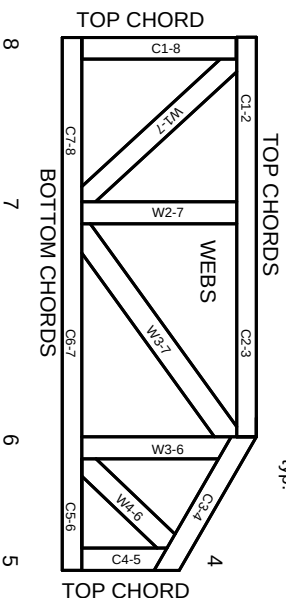
Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1

2

3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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