



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

RE: 4847431 - LOT 1 CROSSWINDS

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: GIEBEIG HOMES Project Name: Spec House Model: 1677
Lot/Block: 1 Subdivision: Crosswinds
Address: TBD, TBD
City: Lake City State: FL

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

Name: License #:
Address: State:
City:

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 30 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T38483999	CJ01	9/10/25	15	T38484013	T08	9/10/25
2	T38484000	CJ03	9/10/25	16	T38484014	T09	9/10/25
3	T38484001	CJ05	9/10/25	17	T38484015	T10	9/10/25
4	T38484002	EJ01	9/10/25	18	T38484016	T11	9/10/25
5	T38484003	HJ10	9/10/25	19	T38484017	T12	9/10/25
6	T38484004	T01	9/10/25	20	T38484018	T12G	9/10/25
7	T38484005	T01G	9/10/25	21	T38484019	T13	9/10/25
8	T38484006	T02	9/10/25	22	T38484020	T13G	9/10/25
9	T38484007	T03	9/10/25	23	T38484021	T14G	9/10/25
10	T38484008	T04	9/10/25	24	T38484022	T15	9/10/25
11	T38484009	T05	9/10/25	25	T38484023	T15G	9/10/25
12	T38484010	T06	9/10/25	26	T38484024	T16	9/10/25
13	T38484011	T07	9/10/25	27	T38484025	T17	9/10/25
14	T38484012	T07G	9/10/25	28	T38484026	T17G	9/10/25



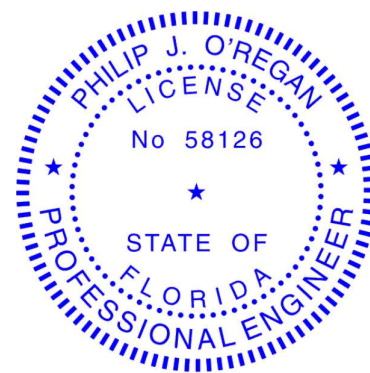
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

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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: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2027.



Philip J. O'Regan PE No.58126
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.

September 10, 2025

ORegan, Philip

1 of 2



RE: 4847431 - LOT 1 CROSSWINDS

MiTek, Inc.

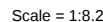
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: GIEBEIG HOMES Project Name: Spec House Model: 1677
Lot/Block: 1 Subdivision: Crosswinds
Address: TBD, TBD
City: Lake City State: FL

No.	Seal#	Truss Name	Date
29	T38484027	T18	9/10/25
30	T38484028	T18G	9/10/25

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:07 2025 Page 1
 ID:UBRuYsnCX6QV?mDYde3qqLyfNog-mIzVhNPRwxytRW_iOJKv25B1j5btpLHbXnOLLTyfMF_
 -1-6-0 1-0-0
 1-6-0 1-0-0



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/TP1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484000
4847431	CJ03	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:08 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-EVXtU7Q3hF4k3gYvx0r8bJkCSVwbYoWkmR7utwyfMEz

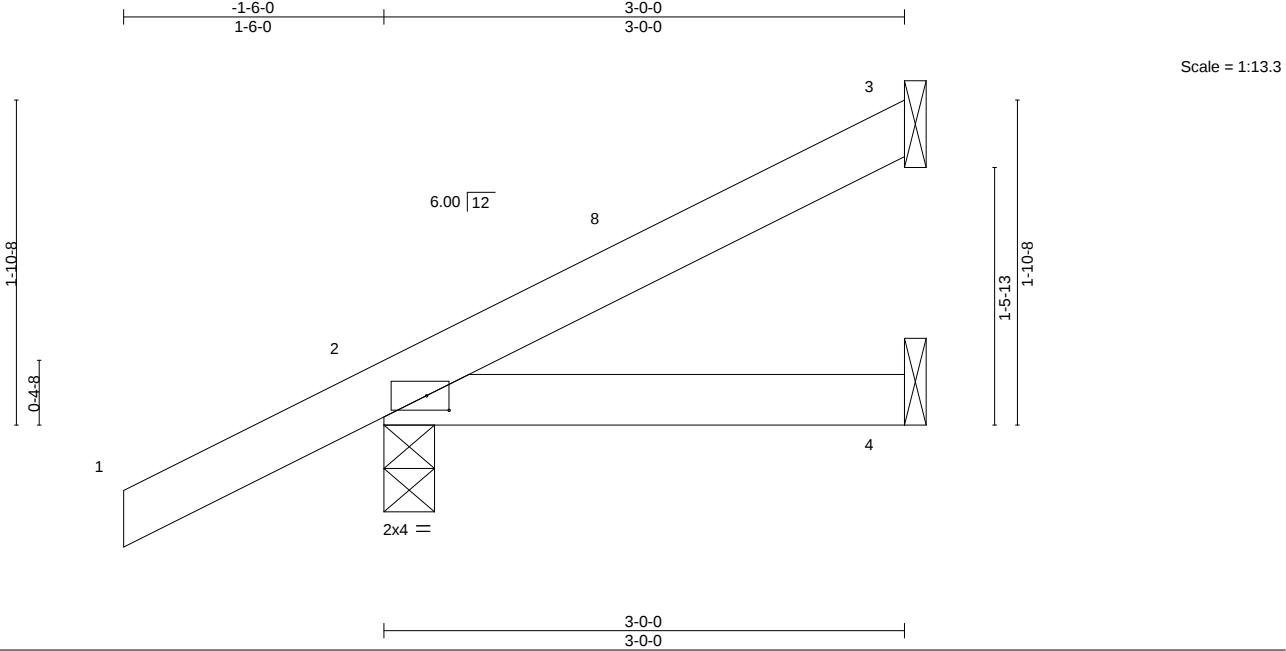


Plate Offsets (X,Y)--		[2:0-1-9,0-1-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 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.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=82(LC 12)
Max Uplift 3=-41(LC 12), 2=-69(LC 12)
Max Grav 3=66(LC 1), 2=230(LC 1), 4=50(LC 3)

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

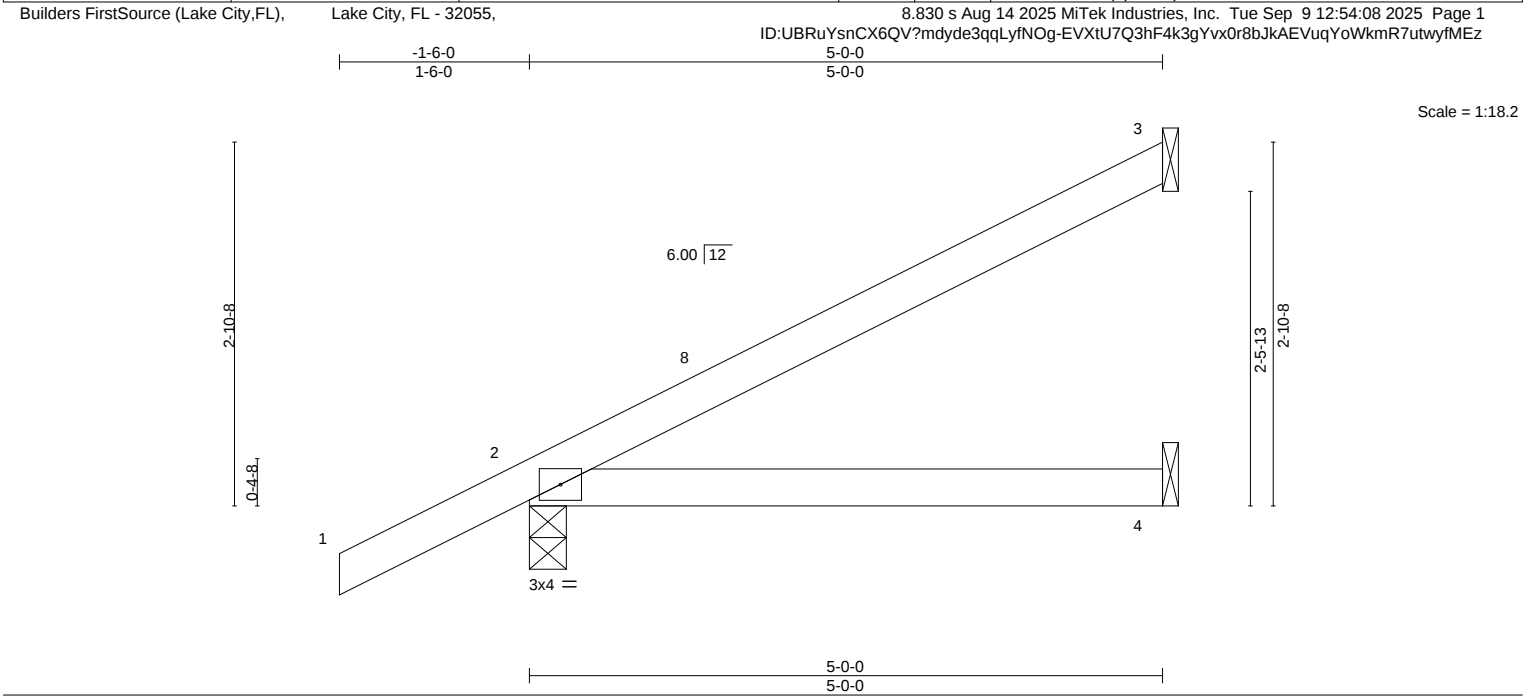
- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60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

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484001
4847431	CJ05	Jack-Open	2	1	Job Reference (optional)	



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) 0.03	4-7	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.06	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 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=120(LC 12)
	Max Uplift 3=-77(LC 12), 2=-79(LC 12), 4=-1(LC 12)
	Max Grav 3=124(LC 1), 2=301(LC 1), 4=90(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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484002
4847431	EJ01	Jack-Partial	8	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc.
Tue Sep 9 12:54:09 2025
Page 1
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7-0-0
7-0-0

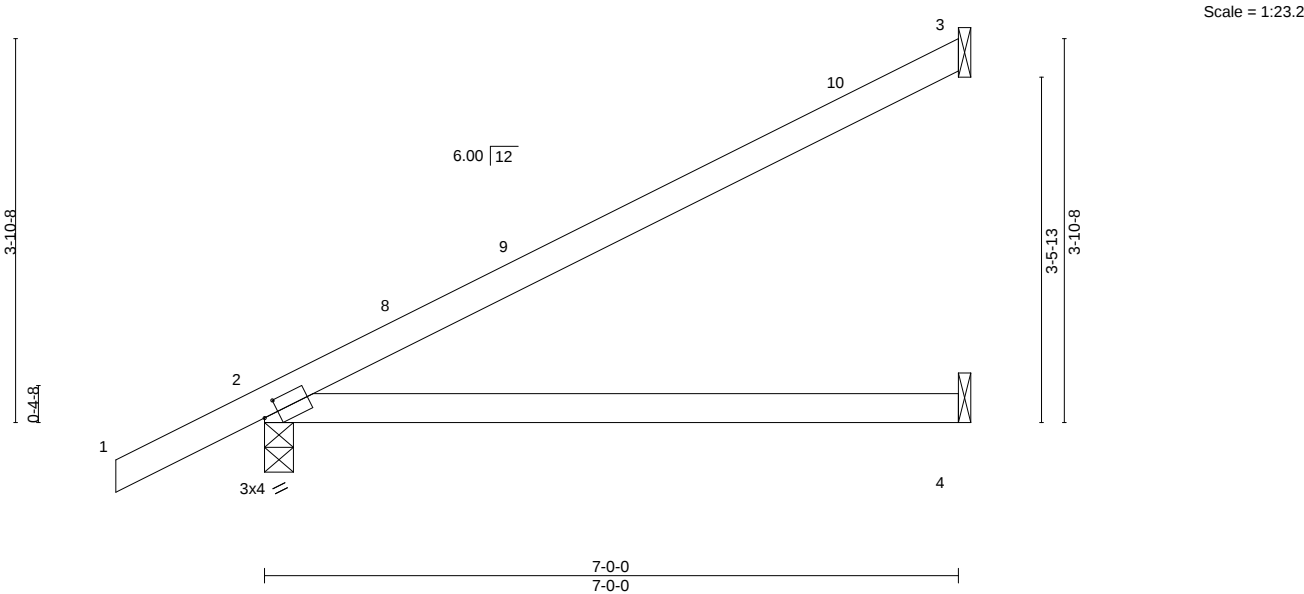


Plate Offsets (X,Y)--		[2:0-1-13,0-1-8]												
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP			
	TCLL	20.0	Plate Grip DOL		1.25	TC	0.69	Vert(LL)	0.11			4-7	>741	240
	TCDL	10.0	Lumber DOL		1.25	BC	0.54	Vert(CT)	-0.23			4-7	>364	180
	BCLL	0.0 *	Rep Stress Incr		YES	WB	0.00	Horz(CT)	0.01			2	n/a	n/a
	BCDL	10.0	Code		FBC2023/TPI2014	Matrix-MS								
										Weight: 25 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=153(LC 12)
Max Uplift 3=-99(LC 12), 2=-93(LC 12), 4=-1(LC 12)
Max Grav 3=181(LC 1), 2=377(LC 1), 4=128(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 -1-6-0 to 1-6-0, Zone1 1-6-0 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:

September 10,2025

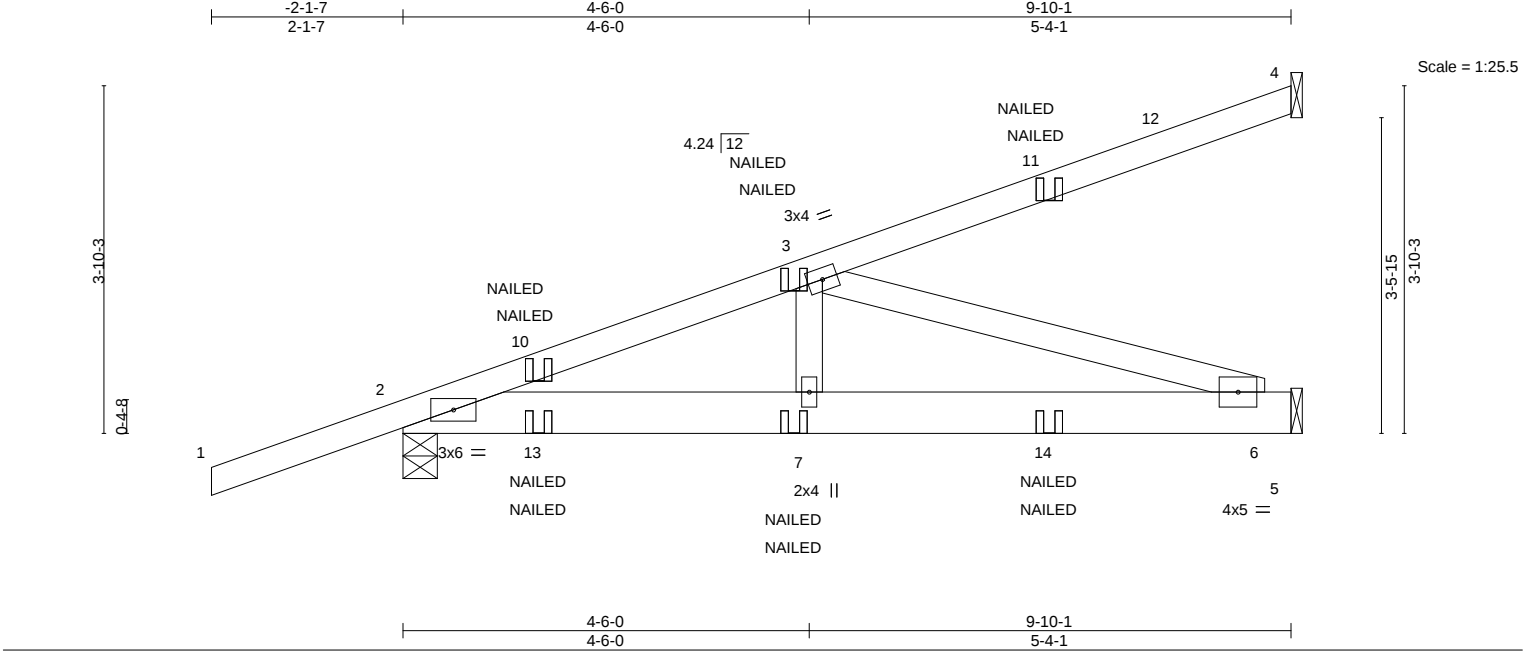
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	LOT 1 CROSSWINDS	T38484003
4847431	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:09 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-ih5FiTQiSYCbgq75VkmN8WHGxvCkH95u_5tSPMyfMEy



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) -0.02	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.05	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 51 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=0-4-9, 5=Mechanical
Max Horz 2=167(LC 4)
Max Uplift 4=90(LC 4), 2=-176(LC 4), 5=-86(LC 8)
Max Grav 4=163(LC 1), 2=472(LC 1), 5=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-758/238
BOT CHORD 2-7=-282/722, 6-7=-282/722
WEBS 3-6=-757/295

- NOTES-**
- 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.
 - 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) 4, 5 except (jt=lb) 2=176.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-6(F=-3, B=-3) 10=58(F=29, B=29) 11=-79(F=-39, B=-39) 13=62(F=31, B=31) 14=-62(F=-31, B=-31)

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

September 10,2025

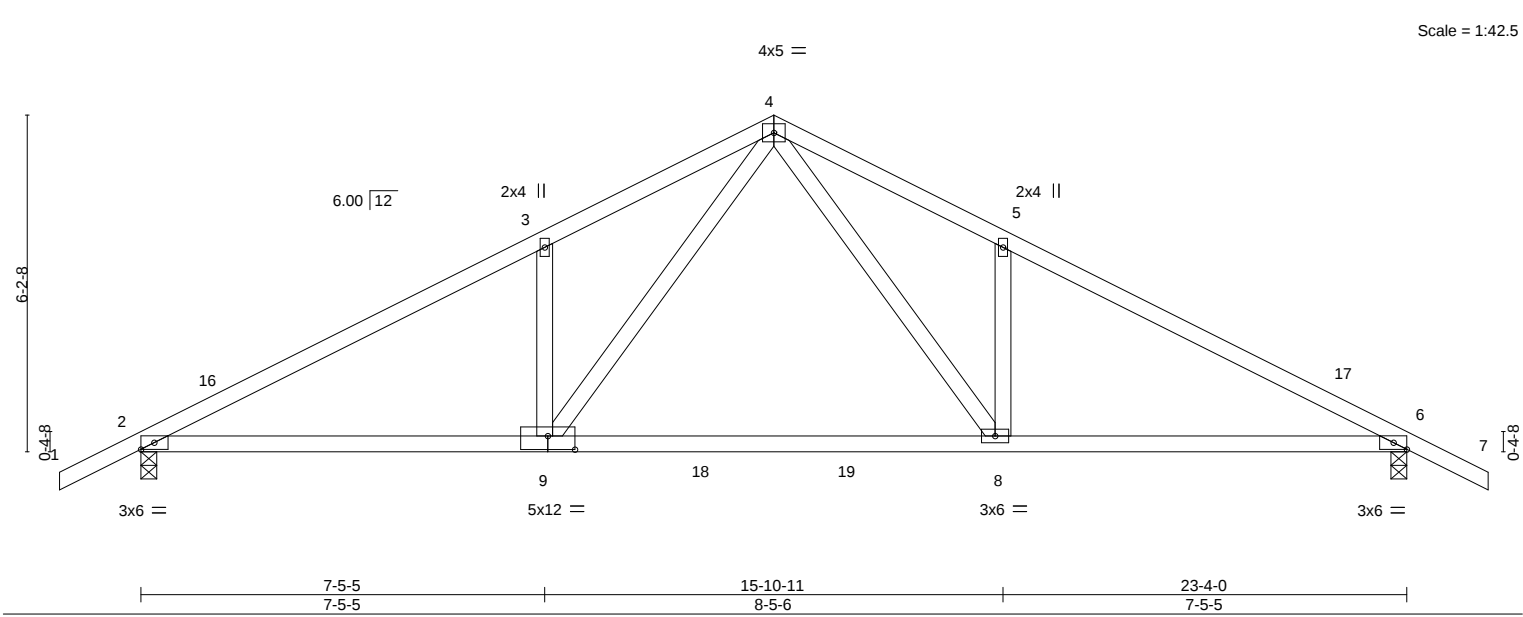
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484004
4847431	T01	Common	7	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:10 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-AtedvpRKDsLSiziH3RtcgkpQDIUX0cR1Dlc?xoyfMEX 24-10-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.27	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.54				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.04				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 110 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-10 oc purlins.
BOT CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	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=-110(LC 13)
Max Uplift	2=-335(LC 12), 6=-336(LC 13)
Max Grav	2=1307(LC 2), 6=1308(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2244/524, 3-4=-2221/647, 4-5=-2231/652, 5-6=-2249/525
BOT CHORD	2-9=-464/1963, 8-9=-244/1317, 6-8=-386/1941
WEBS	4-8=-381/1117, 5-8=-371/252, 4-9=-376/1112, 3-9=-369/250

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-11, Zone1 15-10-11 to 24-10-0 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=335, 6=336.
 - 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, 9-10=-20, 8-9=-80(F=-60), 8-13=-20	

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

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484005
4847431	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:11 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-e3C069Sy_ATJw7HTd9PrDxMjziy2l83BSPMZUFyfMEw
23-4-0 24-10-0 11-8-0 1-6-0

Scale = 1:43.6

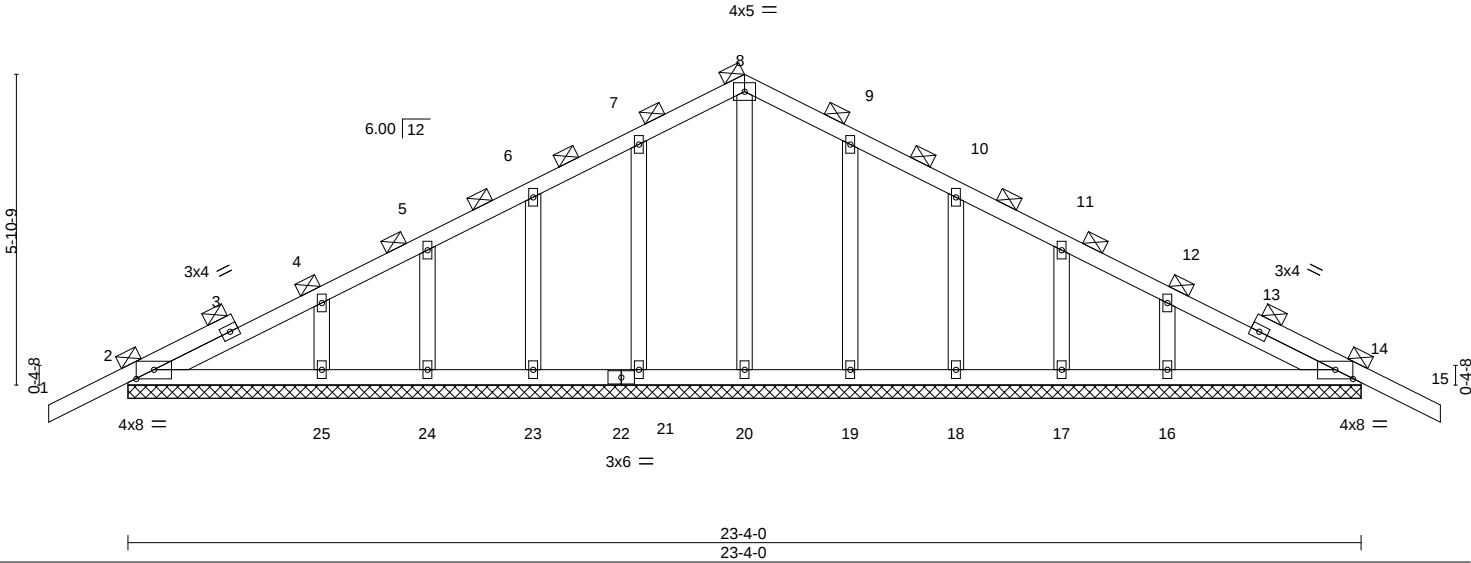


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [14:0-4-0,0-2-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15
TCDL 10.0	Lumber DOL	1.25	BC 0.09
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 15 n/r 120
			Vert(CT) -0.00 15 n/r 120
			Horz(CT) 0.00 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 125 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 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 23-4-0.
(lb) - Max Horz 2=-104(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 19, 18, 17 except 25=251(LC 25),
16=251(LC 26)

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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
 - 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:

September 10,2025

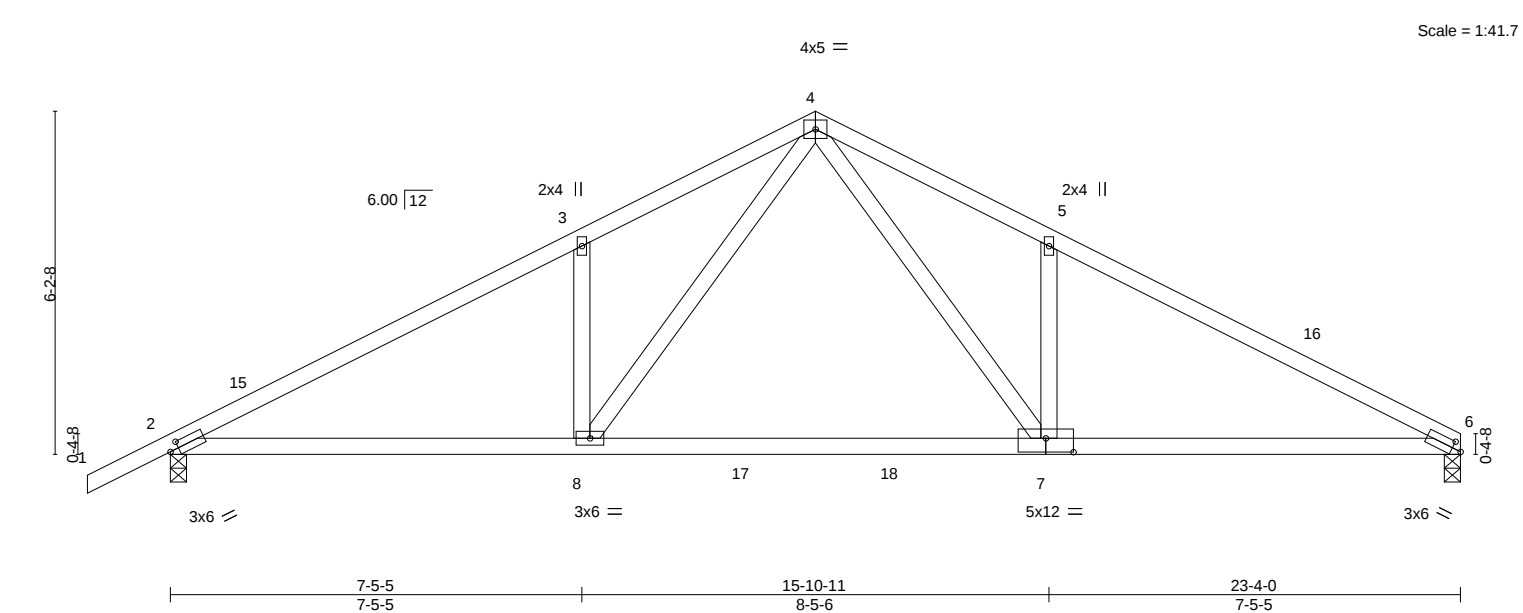
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484006
4847431	T02	Common	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:11 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-e3C069Sy_ATJw7HTd9PrDxMariqnI3dBSPMZUFyfMEw 23-4-0 7-5-5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.26	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.54				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.04				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 108 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=122(LC 16)
Max Uplift 6=297(LC 13), 2=336(LC 12)
Max Grav 6=1229(LC 2), 2=1310(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2253/537, 3-4=-2236/653, 4-5=-2238/658, 5-6=-2258/553
BOT CHORD 2-8=-479/1960, 7-8=-257/1310, 6-7=-408/1951
WEBS 4-7=-386/1125, 5-7=-376/254, 4-8=-381/1116, 3-8=-371/252

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-11, Zone1 15-10-11 to 23-4-0 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) 6=297, 2=336.
 - 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, 8-12=-20, 7-8=-80(F=-60), 7-9=-20

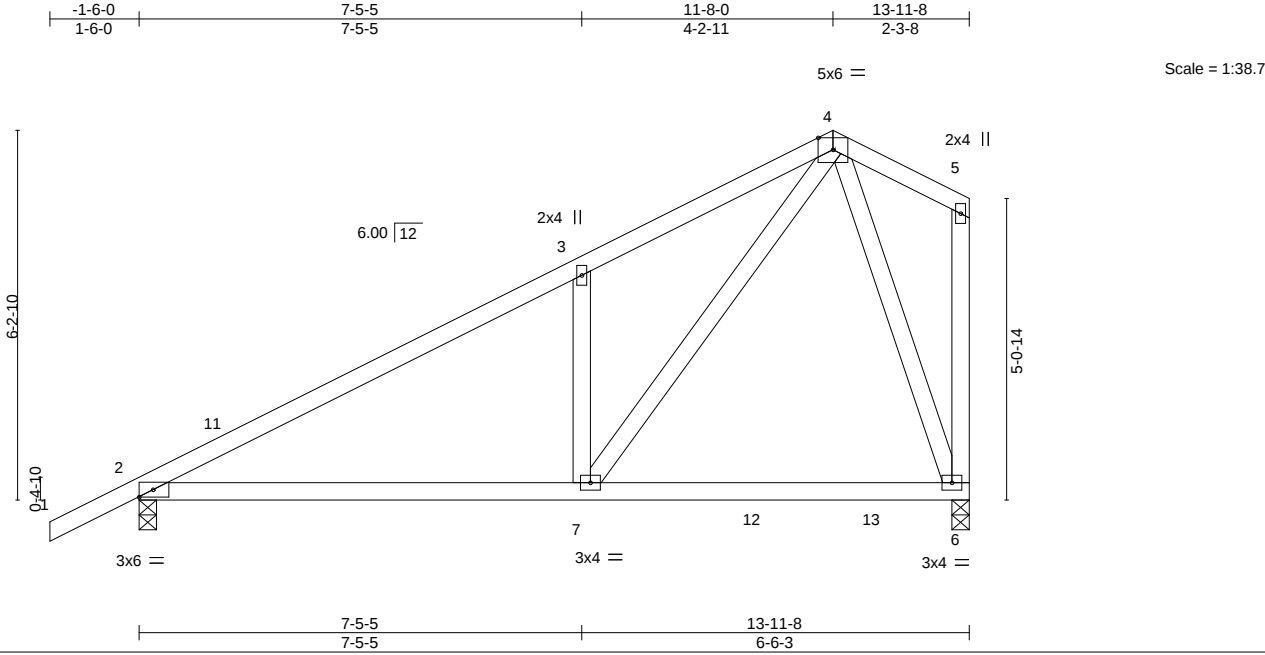
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Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484007
4847431	T03	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:12 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNog-6GmOKUTalTbAXHsgAsw4l9vop69SUX6Kh3560hyfMEv



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	Vert(LL)	-0.09 7-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.59	Vert(CT)	-0.18 7-10	>900	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-11 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) 2=0-3-8, 6=0-3-8
Max Horz 2=227(LC 12)
Max Uplift 2=-164(LC 12), 6=-171(LC 12)
Max Grav 2=672(LC 2), 6=608(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-790/157, 3-4=-791/286
BOT CHORD 2-7=-234/646
WEBS 3-7=-412/265, 4-7=-296/818, 4-6=-472/206

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone3 11-8-0 to 13-9-12 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.
 - 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=164, 6=171.

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Date:

September 10,2025

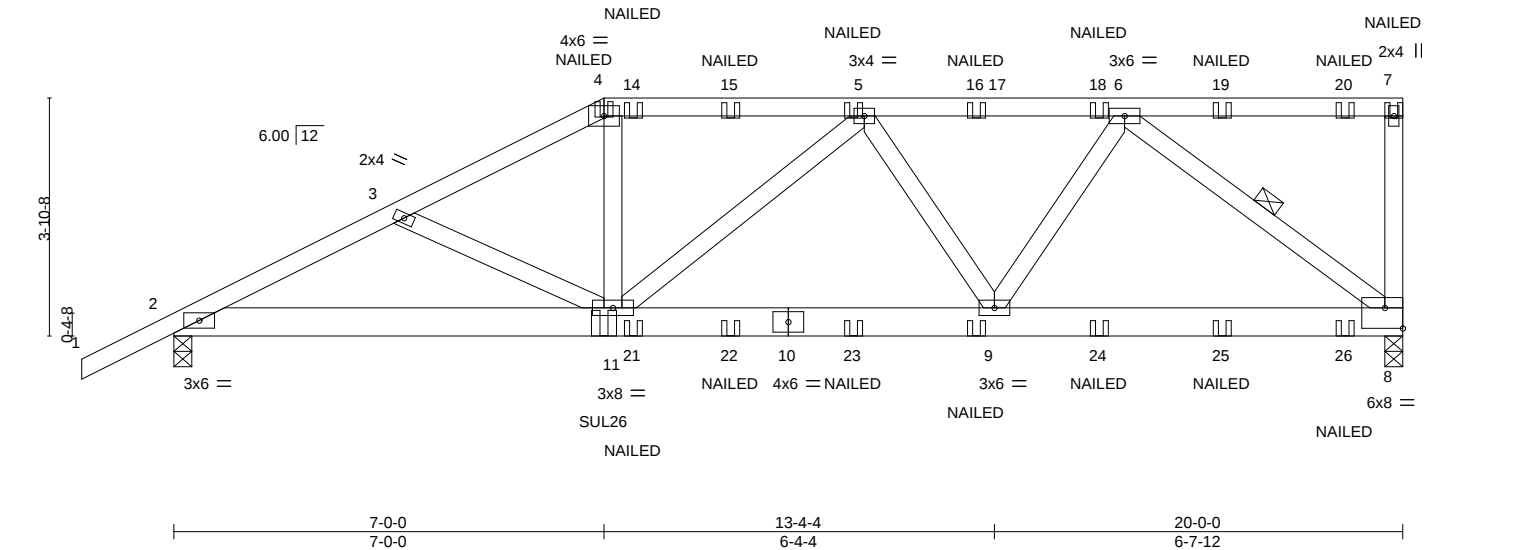
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484008
4847431	T04	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:12 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-6GmOKUTaTbAXHsgAsw4l9vn8697UUTKh3560hyfMEv
-1-6-0 3-8-15 7-0-0 11-2-13 15-5-11 20-0-0
1-6-0 3-8-15 3-3-1 4-2-13 4-2-13 4-6-5
Scale = 1:37.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.09 9-11 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.16 9-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 122 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-5-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=161(LC 8)
Max Uplift 8=727(LC 5), 2=531(LC 8)
Max Grav 8=1949(LC 1), 2=1557(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2906/1013, 3-4=-2710/948, 4-5=-2425/884, 5-6=-2266/778, 7-8=-403/219
BOT CHORD 2-11=-993/2573, 9-11=-930/2536, 8-9=-652/1768
WEBS 4-11=-170/745, 5-9=-521/295, 6-9=-273/963, 6-8=-2212/817

- 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) 8=727, 2=531.
 - Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-8=-20

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Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS
4847431	T04	Half Hip Girder	1	1	T38484008
					Job Reference (optional)

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:12 2025 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-79(F) 7=-153(F) 11=-273(F) 5=-121(F) 9=-67(F) 14=-121(F) 15=-121(F) 16=-121(F) 18=-121(F) 19=-121(F) 20=-127(F) 21=-67(F) 22=-67(F) 23=-67(F)
24=-67(F) 25=-67(F) 26=-69(F)

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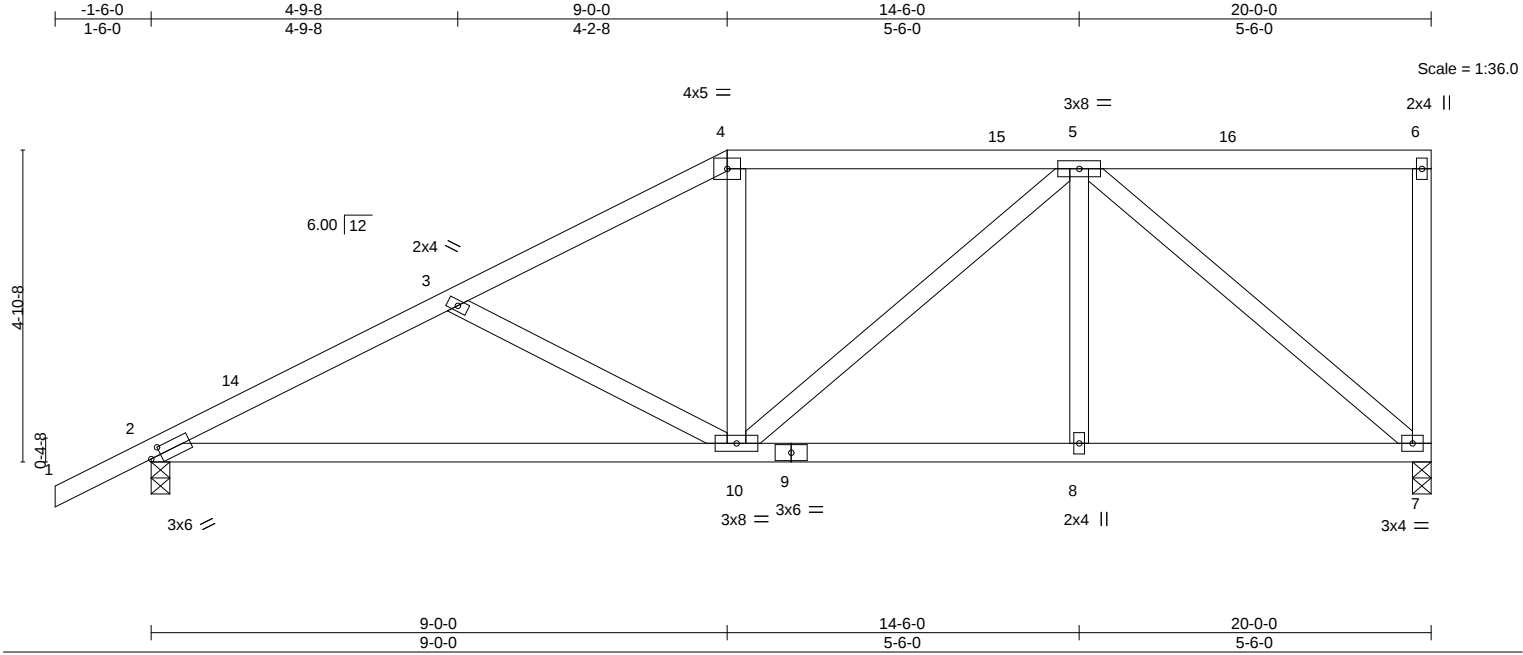
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484009
4847431	T05	Half Hip	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:13 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-aSKmXqUCWnj19RRskaRJIMR?NWUDDsDUvjrfY7yfMEu



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.14 10-13 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.30 10-13 >800 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03 7 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 110 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-9-10 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=199(LC 12)
Max Uplift 7=-222(LC 9), 2=-247(LC 12)
Max Grav 7=791(LC 1), 2=888(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1338/369, 3-4=-1043/275, 4-5=-880/278
BOT CHORD 2-10=-448/1171, 8-10=-201/722, 7-8=-201/722
WEBS 3-10=-336/191, 4-10=0/267, 5-7=-931/264

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 19-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 7=222, 2=247.

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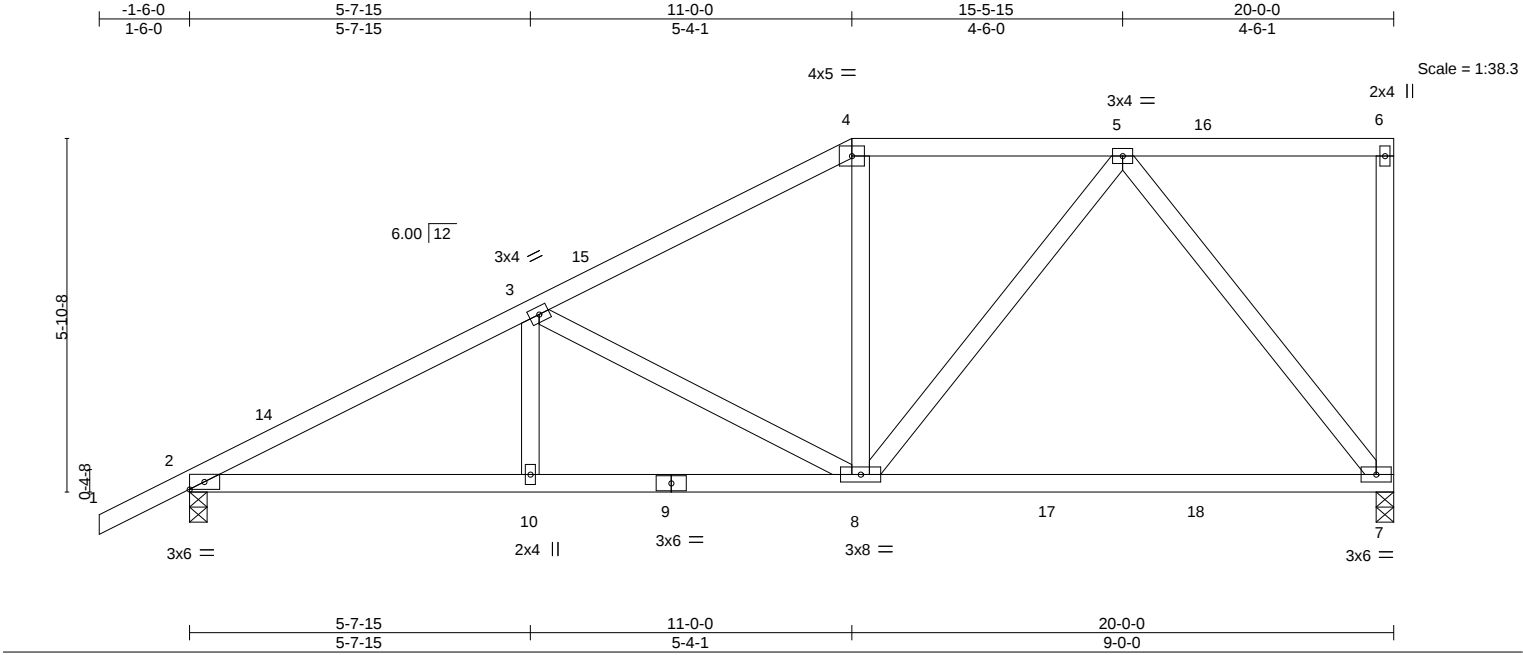
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484010
4847431	T06	Half Hip	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:13 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLYfNOg-aSKmXqUCWnj19RRskaRJIMRzdWS7DutUvjrfY7yfMEu



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.52	Vert(LL) -0.25	7-8	>953	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.81	Vert(CT) -0.42	7-8	>562	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.03	7	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 113 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=238(LC 12)
Max Uplift 7=-212(LC 9), 2=-241(LC 12)
Max Grav 7=870(LC 2), 2=930(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1429/334, 3-4=-960/225, 4-5=-802/238
BOT CHORD 2-10=-448/1246, 8-10=-448/1246, 7-8=-160/509
WEBS 3-8=-510/237, 5-8=-127/480, 5-7=-789/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-5-15, Zone1 15-5-15 to 19-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=212, 2=241.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

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®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484011
4847431	T07	Common	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:14 2025 Page 1

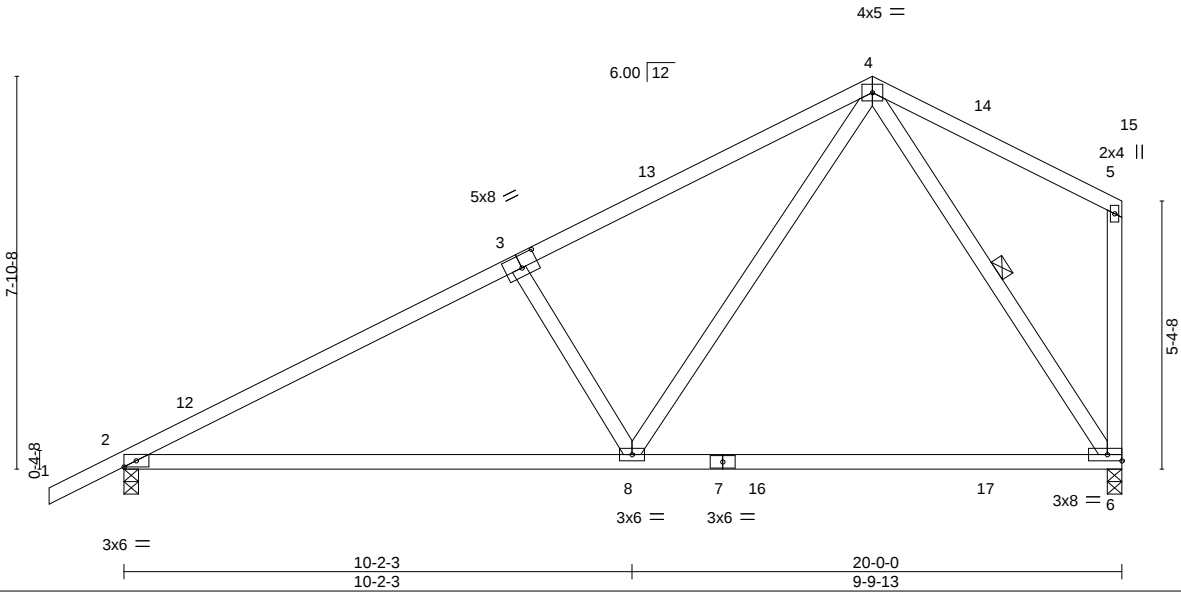
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-1-6-0
1-6-0

7-11-0
7-11-0

15-0-0
7-1-0

20-0-0
5-0-0



Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484012
4847431	T07G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:14 2025 Page 1
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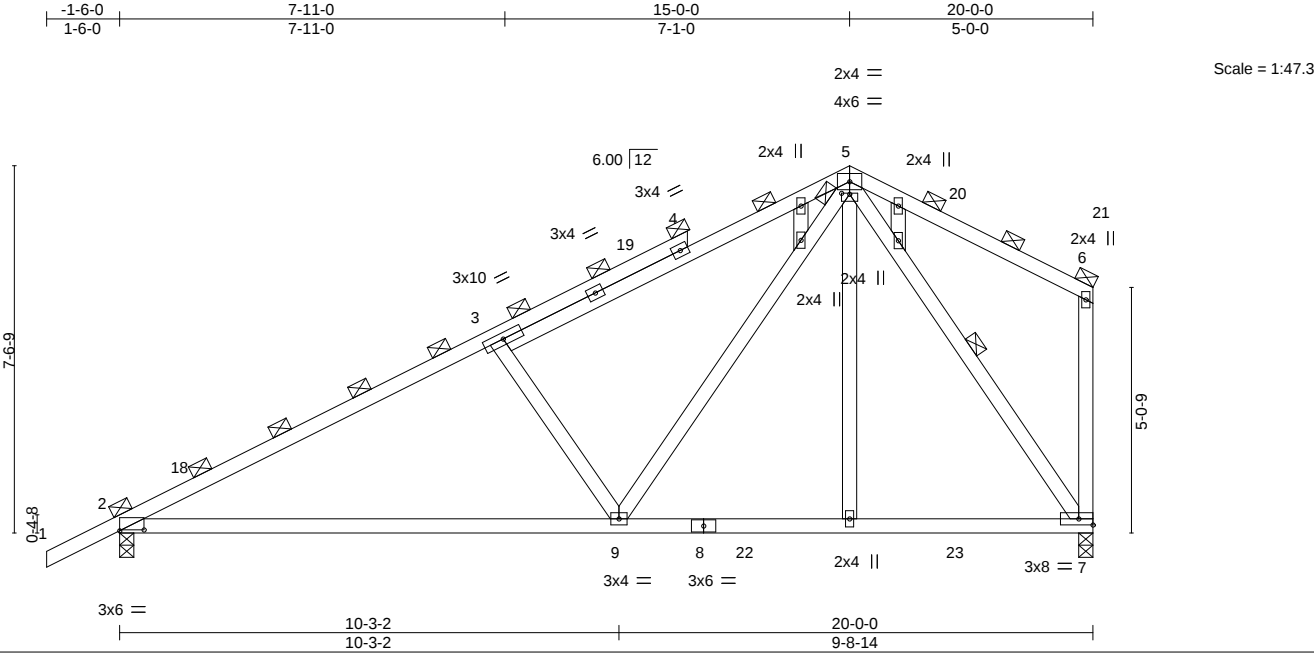


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [5:0-2-0,0-0-4]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	-0.37	7-9	>647	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.55	7-9	>434	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 123 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-0-14 max.), except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.
2-8: 2x4 SP No.1	WEBS 1 Row at midpt 5-7
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=249(LC 12)
Max Uplift 2=234(LC 12), 7=-202(LC 12)
Max Grav 2=938(LC 2), 7=890(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1309/298, 3-5=-1106/278
BOT CHORD 2-9=-407/1136, 7-9=-128/433
WEBS 3-9=-451/288, 5-9=-219/910, 5-7=-716/233

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 19-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable 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) except (jt=lb) 2=234, 7=202.
 - 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484013
4847431	T08	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:15 2025 Page 1
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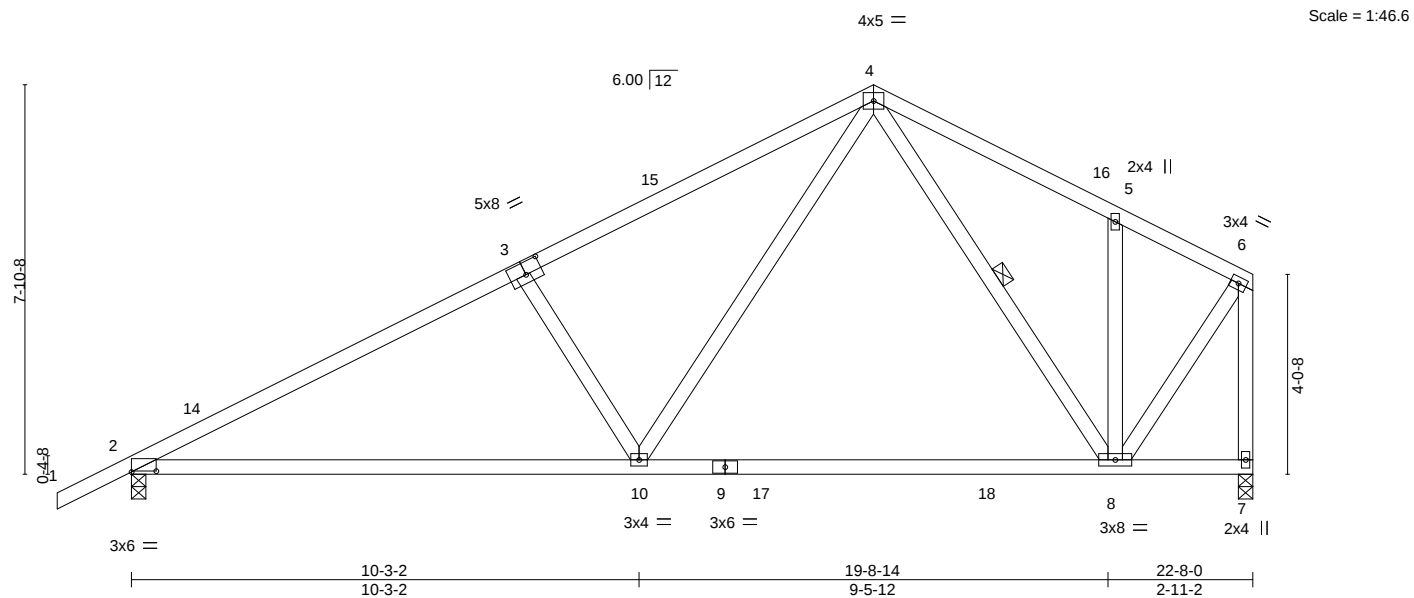


Plate Offsets (X,Y)--		[2:0-6-0,0-0-3], [3:0-4-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72
TCDL 10.0	Lumber DOL	1.25	BC 0.82
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.28 8-10 >980 240
			Vert(CT) -0.43 10-13 >630 180
			Horz(CT) 0.03 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 126 lb FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=232(LC 12)
	Max Uplift 2=-262(LC 12), 7=-195(LC 12)
	Max Grav 2=1057(LC 2), 7=1000(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1540/349, 3-4=-1365/357, 4-5=-638/217, 5-6=-594/134, 6-7=-1055/221
BOT CHORD	2-10=-432/1336, 8-10=-157/655
WEBS	3-10=-463/293, 4-10=-240/911, 4-8=-307/128, 5-8=-280/182, 6-8=-157/922

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 22-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=262, 7=195.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:15 2025 Page 1
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 -1-6-0 2-9-8 7-11-0 15-0-0 16-4-0 22-8-0
 1-6-0 2-9-8 5-1-8 7-1-0 1-4-0 6-4-0



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 0-1-12 to 3-1-12, Zone1 3-1-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 22-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 1=219. 7=195.

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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484015
4847431	T10	Roof Special	3	1	Job Reference (optional)	

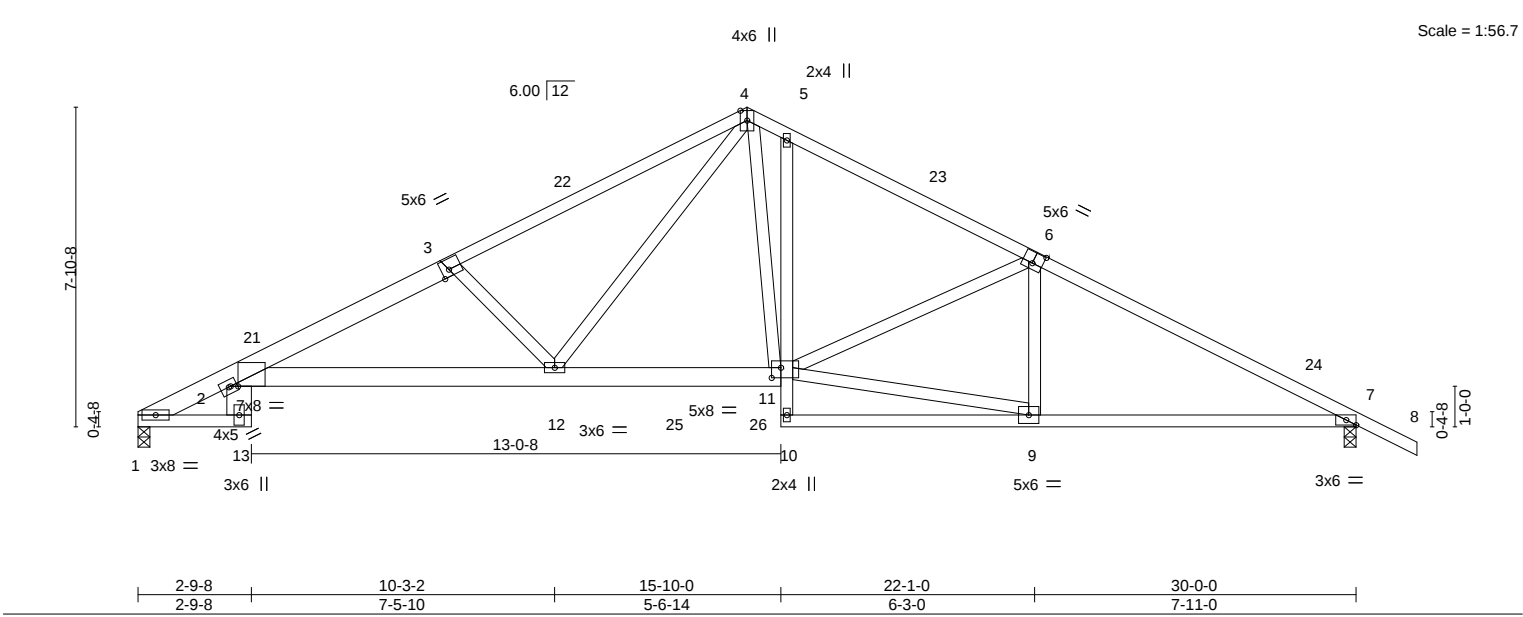
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:16 2025 Page 1

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-1-6-0 | 2-9-8 | 7-11-0 | 15-0-0 | 15-10-0 | 22-1-0 | 30-0-0 | 31-6-0

1-6-0 | 2-9-8 | 5-1-8 | 7-1-0 | 0-10-0 | 6-3-0 | 7-11-0 | 1-6-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.34 2-12 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.64 2-12 >566 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.30 7 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 179 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 1-3: 2x6 SP 2400F 2.0E or 2x6 SP M 26	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2 *Except* 2-13: 2x8 SP 2400F 2.0E, 2-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26 5-10: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
REACTIONS.			
(size) 1=0-3-8, 7=0-3-8			
Max Horz 1=-150(LC 17)			
Max Uplift 1=-280(LC 12), 7=-322(LC 13)			
Max Grav 1=1297(LC 2), 7=1361(LC 2)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-17=-713/244, 2-3=-2856/665, 3-4=-2553/588, 4-5=-1770/437, 5-6=-1866/406, 6-7=-2267/473		
BOT CHORD	2-13=-64/289, 2-12=-643/2619, 11-12=-210/1489, 7-9=-309/1963		
WEBS	3-12=-651/346, 4-12=-322/1198, 4-11=-256/763, 9-11=-303/1823, 6-11=-451/248		

- 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 0-1-12 to 3-1-12, Zone1 3-1-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 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, 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) 1=280, 7=322.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484016
4847431	T11	Common	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:17 2025 Page 1

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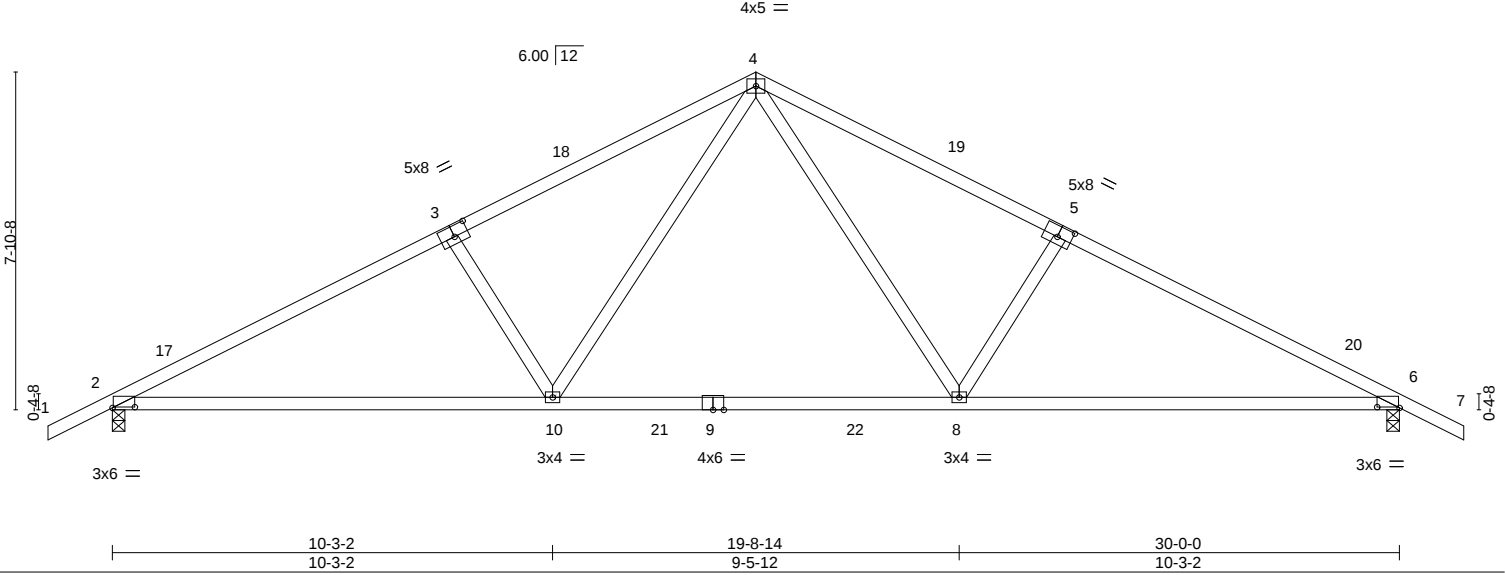


Plate Offsets (X,Y)--		[2:0-6-4,0-0-3], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-6-4,0-0-3]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.25 8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.49 10-13	>728	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.06 6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 139 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.1	BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=138(LC 16)
Max Uplift 2=-322(LC 12), 6=-322(LC 13)
Max Grav 2=1384(LC 2), 6=1384(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2249/483, 3-4=-2074/490, 4-5=-2074/490, 5-6=-2249/483
BOT CHORD 2-10=-457/1969, 8-10=-182/1310, 6-8=-319/1969
WEBS 4-8=-239/882, 5-8=-461/292, 4-10=-239/882, 3-10=-461/292

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 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, 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=322, 6=322.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

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

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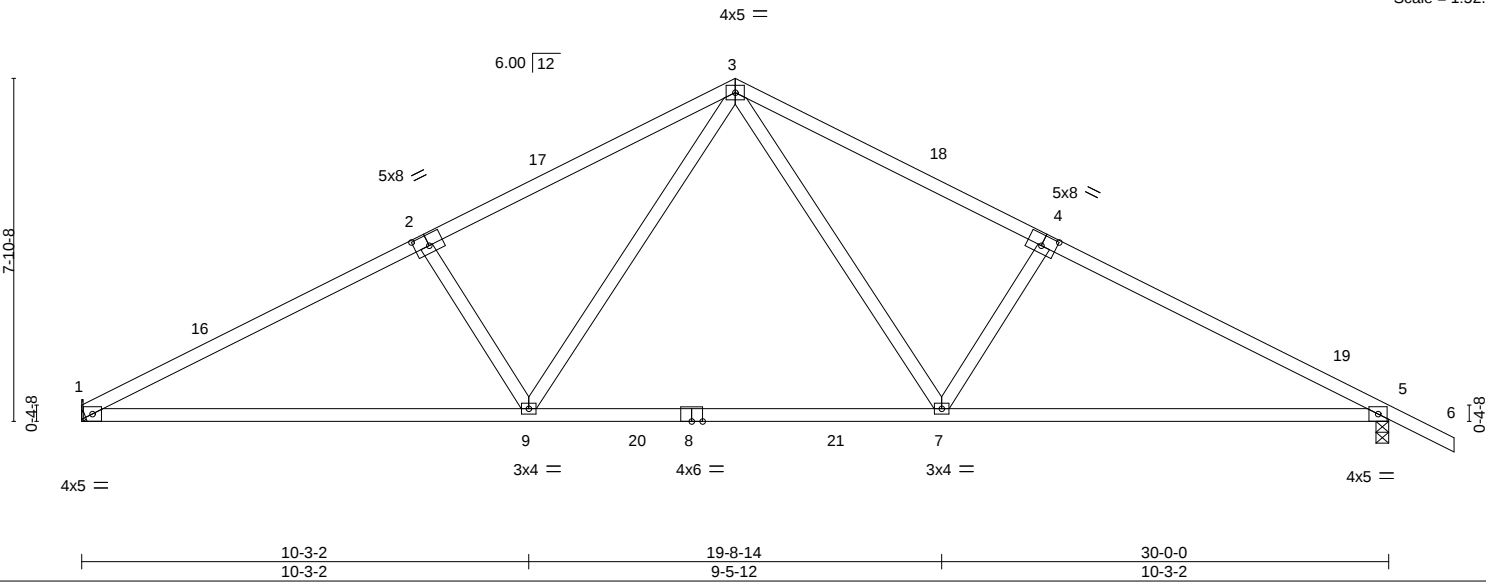
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484017
4847431	T12	Common	6	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:17 2025 Page 1

ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-TDaHNCXjZ0DTe2ldzPVFSCcbbd7pU9np3qLphtuyfMEq



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.25 7-9 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.52 9-12 >692 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.06 5 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 136 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.1	BOT CHORD	Rigid ceiling directly applied or 8-11-5 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 1=Mechanical, 5=0-3-8
Max Horz 1=-150(LC 13)
Max Uplift 1=-284(LC 12), 5=-323(LC 13)
Max Grav 1=1307(LC 2), 5=1386(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2260/490, 2-3=-2085/497, 3-4=-2078/491, 4-5=-2253/484
BOT CHORD 1-9=-464/1981, 7-9=-185/1314, 5-7=-320/1972
WEBS 3-7=-239/881, 4-7=-461/292, 3-9=-246/892, 2-9=-467/295

- 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 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, 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=284, 5=323.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484018
4847431	T12G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:18 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-xQ7faYXLKJLJGCJqX71U?Q9wCXL7uHrD3?YQDLyfMEp 31-6-0 1-6-0

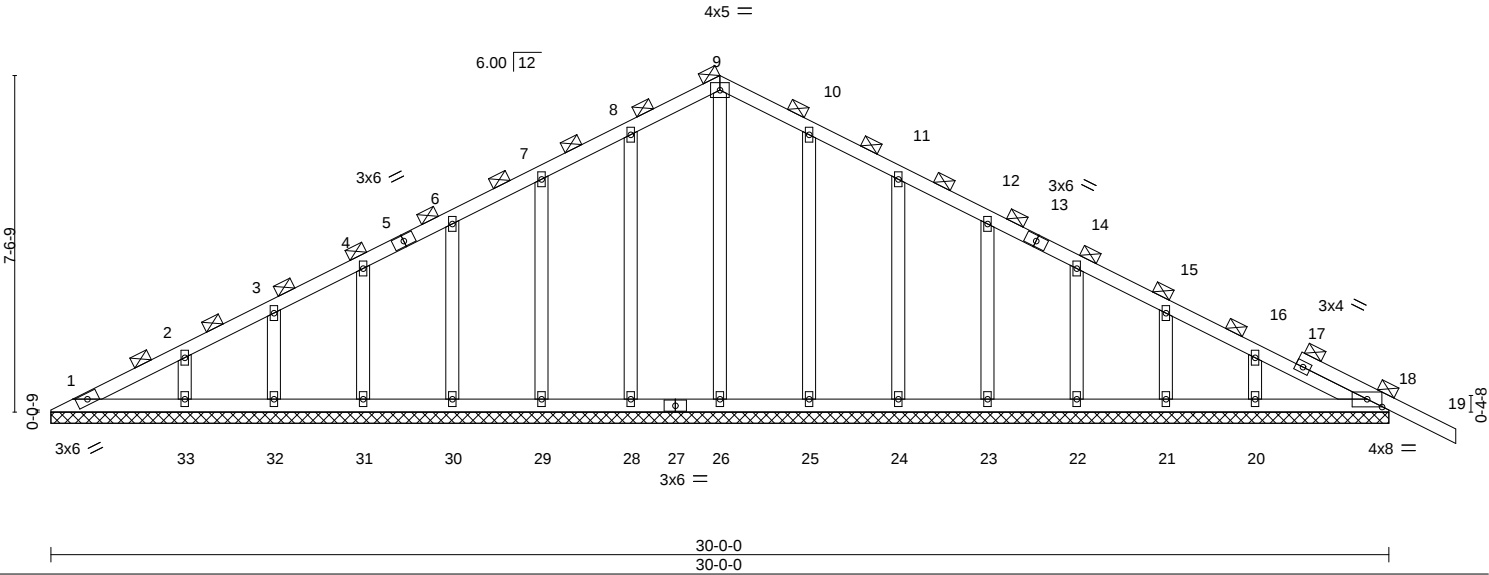


Plate Offsets (X,Y)-- [18:0-4-0,0-2-1]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
		TCLL	20.0	Plate Grip DOL		TC	0.15	Vert(LL)	-0.01	MT20		244/190	
		TCDL	10.0	Lumber DOL		BC	0.06	Vert(CT)	-0.01				
		BCLL	0.0 *	Rep Stress Incr		WB	0.14	Horz(CT)	0.01				
		BCDL	10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 172 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.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 30-0-0.
(lb) - Max Horz 1=-143(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 1, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484019
4847431	T13	Common	10	1	Job Reference (optional)	

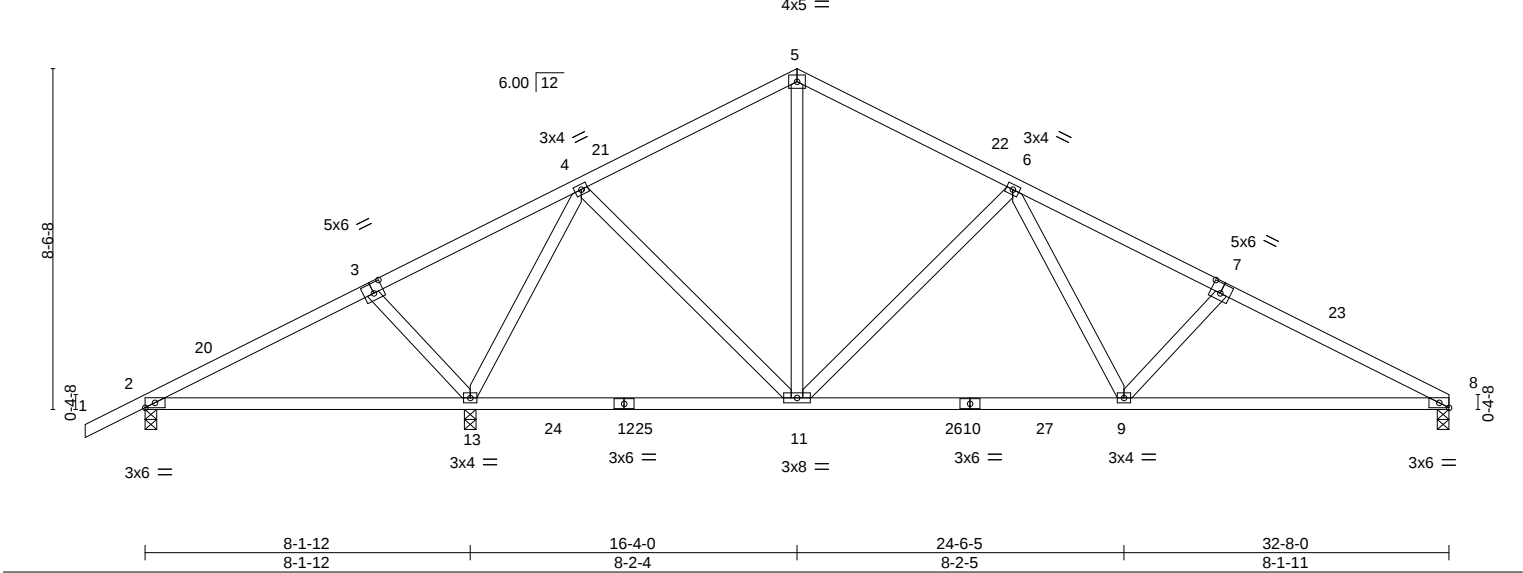
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:19 2025 Page 1

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Scale = 1:57.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.13 13-16 >779 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.21 9-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 168 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-2 oc purlins.
BOT CHORD	2x4 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: 2-13.

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 8=0-3-8
Max Horz 2=161(LC 16)
Max Uplift 2=-102(LC 9), 13=-377(LC 12), 8=-242(LC 13)
Max Grav 2=289(LC 25), 13=1741(LC 2), 8=987(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-69/348, 3-4=-98/532, 4-5=-728/254, 5-6=-729/234, 6-7=-1521/400, 7-8=-1692/429
BOT CHORD 2-13=-286/183, 11-13=-32/250, 9-11=-135/1036, 8-9=-319/1486
WEBS 3-13=-332/200, 4-13=-1325/299, 4-11=-76/602, 5-11=-101/346, 6-11=-637/290, 6-9=-123/601, 7-9=-318/199

- 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 -1-6-0 to 1-9-3, Zone1 1-9-3 to 16-4-0, Zone2 16-4-0 to 20-11-7, Zone1 20-11-7 to 32-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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=102, 13=377, 8=242.

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Date:

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484020
4847431	T13G	GABLE	1	1	Job Reference (optional)	

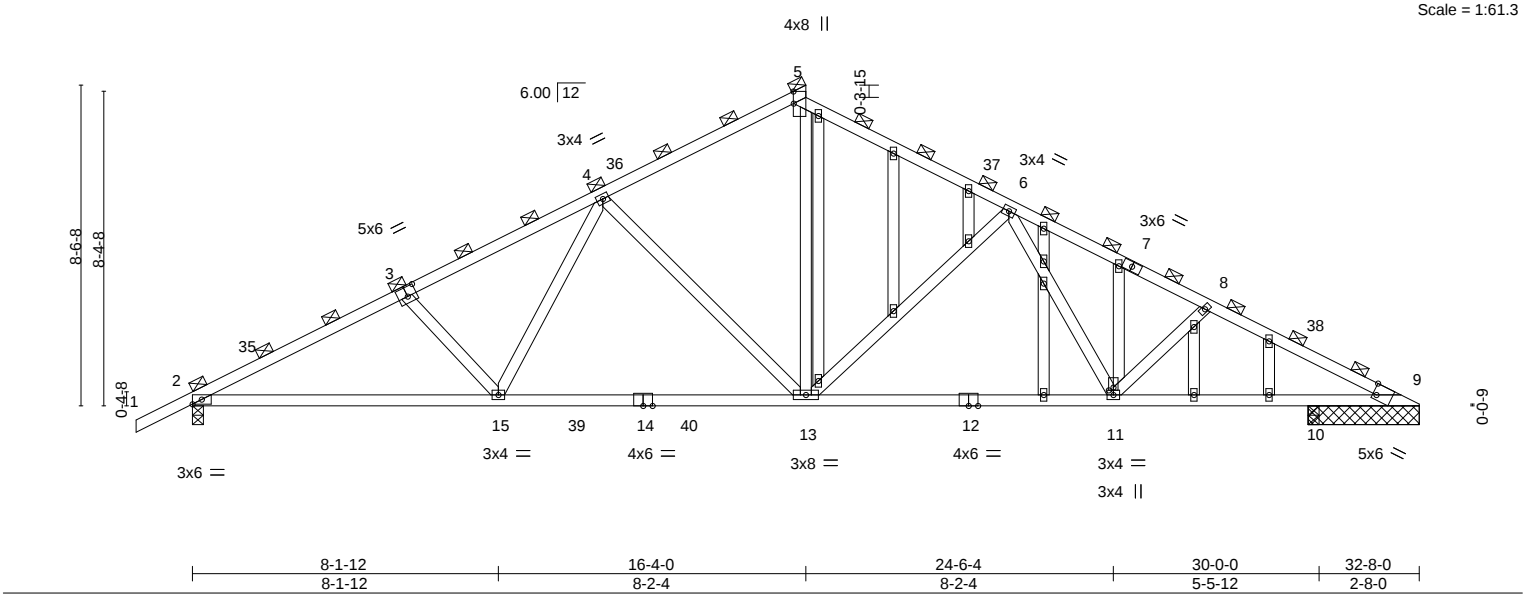
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:19 2025 Page 1

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Scale = 1:61.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.20 11-13 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.40 11-13 >887 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10 9 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 202 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (3-4-14 max.).
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 9=2-11-8, 10=0-3-8
Max Horz 2=157(LC 16)
Max Uplift 2=-341(LC 12), 9=-205(LC 13), 10=-116(LC 13)
Max Grav 2=1438(LC 2), 9=875(LC 2), 10=573(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2490/551, 3-4=-2323/524, 4-5=-1560/385, 5-6=-1613/394, 6-8=-2208/498, 8-9=-2372/536
BOT CHORD 2-15=-556/2194, 13-15=-380/1768, 11-13=-272/1756, 10-11=-412/2071, 9-10=-412/2071
WEBS 5-13=-234/1142, 6-13=-558/282, 6-11=-72/374, 8-11=-256/179, 4-13=-621/281, 4-15=-112/576, 3-15=-302/193

- 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 -1-6-0 to 1-9-3, Zone1 1-9-3 to 16-2-1, Zone2 16-2-1 to 20-9-8, Zone1 20-9-8 to 32-8-0 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 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) except (jt=lb) 2=341, 9=205, 10=116.
 - 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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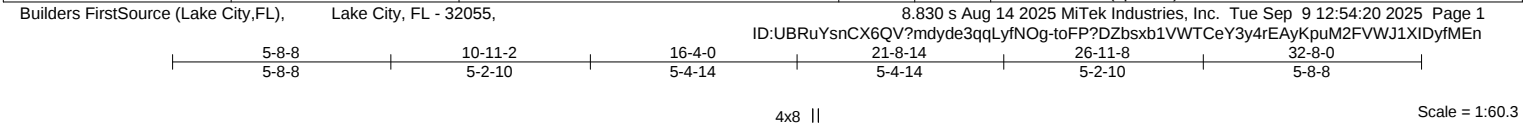
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484021
4847431	T14G	GABLE	1	1	Job Reference (optional)	



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.20 10-12 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.41 10-12 >884 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 200 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (3-3-7 max.).
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
	11-13: 2x4 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS.	(size) 1=Mechanical, 8=2-11-8, 9=0-3-8
	Max Horz 1=-143(LC 13)
	Max Uplift 1=-303(LC 12), 8=-205(LC 13), 9=-116(LC 13)
	Max Grav 1=1361(LC 2), 8=876(LC 2), 9=573(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2507/561, 2-3=-2338/533, 3-4=-1564/386, 4-5=-1617/397, 5-7=-2212/499, 7-8=-2376/536
BOT CHORD	1-14=-567/2212, 12-14=-385/1775, 10-12=-274/1760, 9-10=-413/2075, 8-9=-413/2075
WEBS	4-12=-236/1145, 5-12=-558/282, 5-10=-72/374, 7-10=-256/179, 3-12=-626/285, 3-14=-120/588, 2-14=-312/198

- 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 3-3-3, Zone1 3-3-3 to 16-2-1, Zone2 16-2-1 to 20-9-8, Zone1 20-9-8 to 32-8-0 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 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.
 - 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=303, 8=205, 9=116.
 - 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484022
4847431	T15	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:21 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-L?poDZaDdEju7g2OCFaBd2nLjkHHz5f?flzn4qfyfMEM

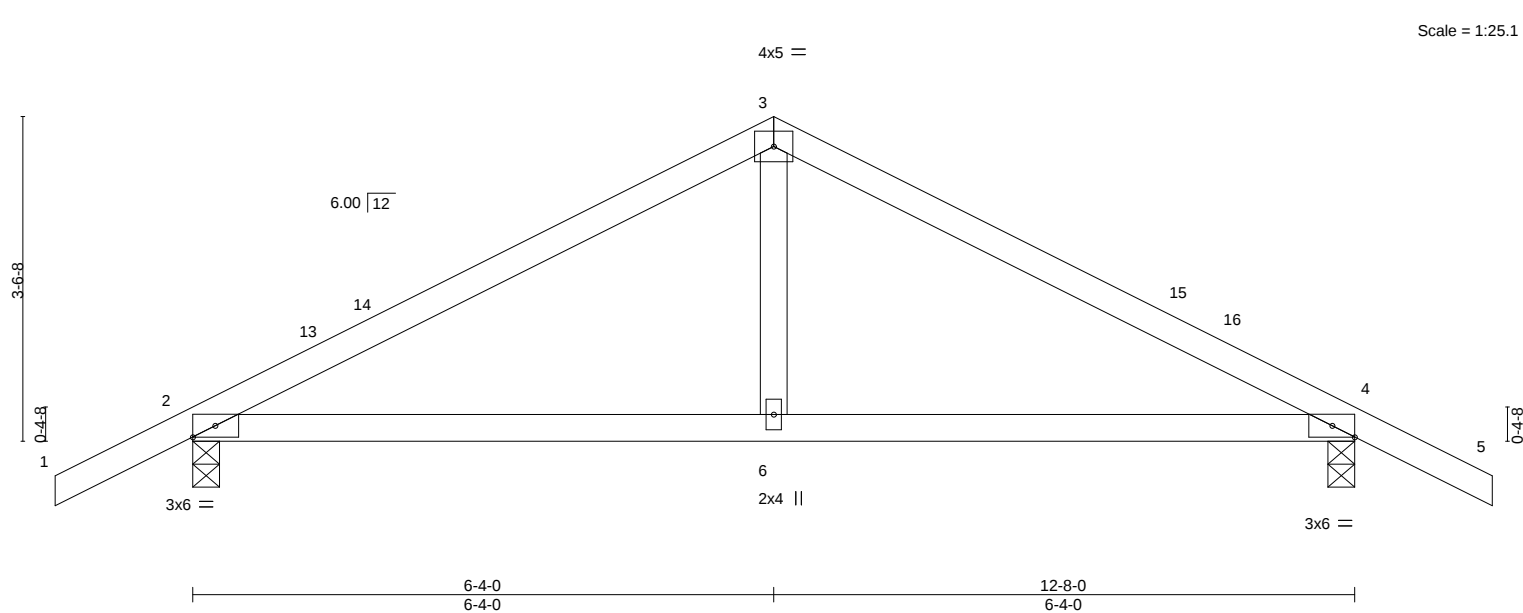


Plate Offsets (X,Y)-- [4:0-2-15,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.05	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.09	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 50 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.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=65(LC 16)
Max Uplift 2=-159(LC 12), 4=-159(LC 13)
Max Grav 2=597(LC 1), 4=597(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-696/226, 3-4=-696/226
BOT CHORD 2-6=-83/554, 4-6=-83/554
WEBS 3-6=0/293

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-4-0, Zone2 6-4-0 to 10-6-15, Zone1 10-6-15 to 14-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=159, 4=159.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484023
4847431	T15G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:21 2025 Page 1
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-L?poDZaDdEju7g2OCFaBd2nQQkN85g7flzn4qfyfMEm 12-8-0 14-2-0 12-8-0 14-2-0

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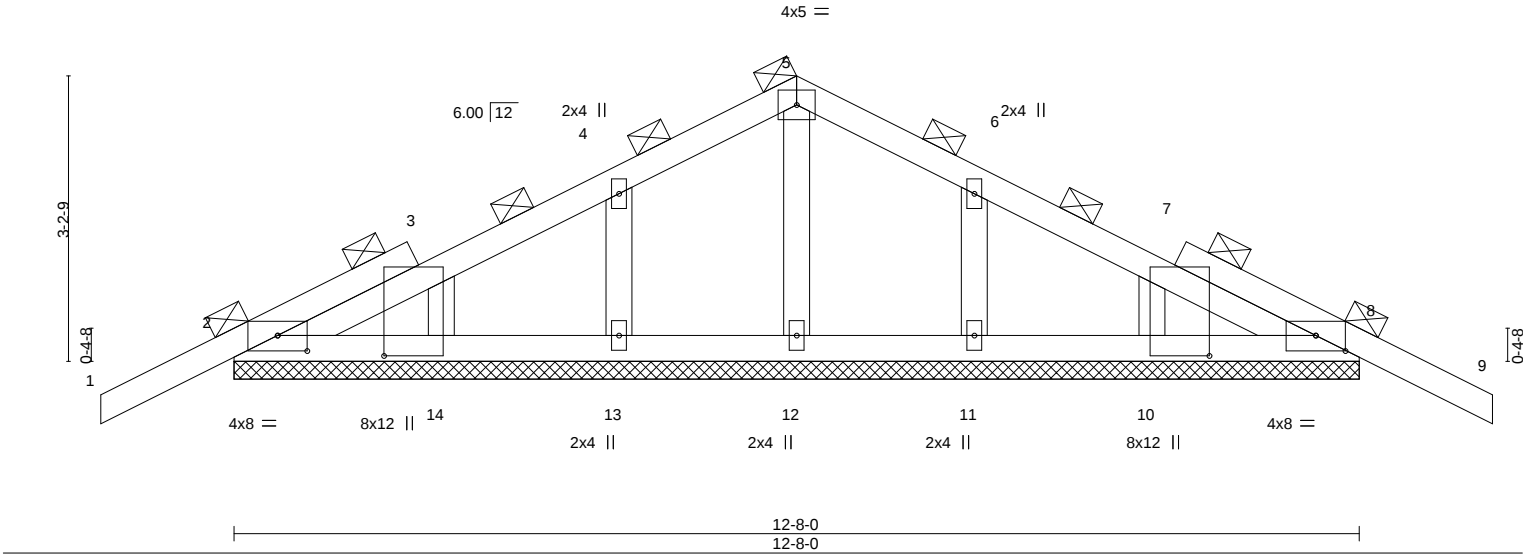


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [8:0-4-0,0-2-1], [10:0-2-12,1-2-6], [14:0-2-12,1-2-6]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	-0.01	9	n/r	120	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.01	9	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 61 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.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 2=-60(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 8, 13, 14, 11, 10.
 - 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	LOT 1 CROSSWINDS	T38484024
4847431	T16	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 1	
		ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-pBNAQvbrOYrklpdmz5Q9GJXF8dbqwUo_dWeM6yfMEI			
3-4-15	6-4-0	9-3-1	12-8-0	3-4-15	
3-4-15	2-11-1	2-11-1	3-4-15		

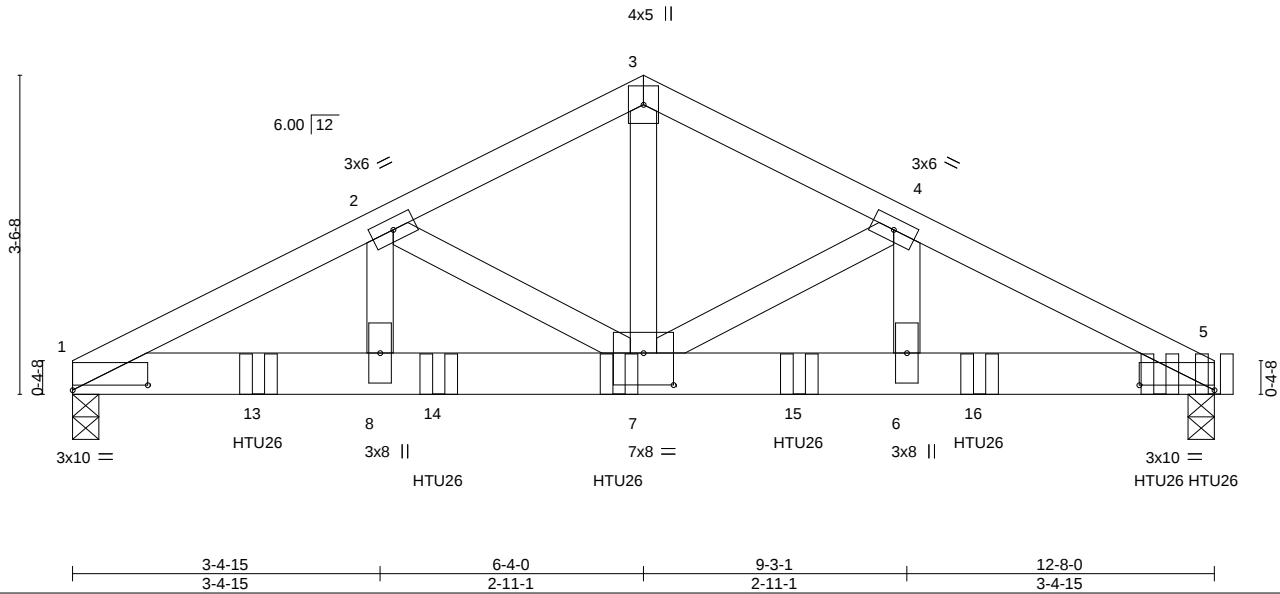


Plate Offsets (X,Y)--		[1:0-10-0,0-0-11], [5:0-10-0,0-0-11], [7:0-4-0,0-4-4]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.40	Vert(LL)	-0.07	6-7	>999		240		MT20		244/190		
TCDL	10.0	Lumber DOL		1.25		BC	0.41	Vert(CT)	-0.13	6-7	>999		180						
BCLL	0.0 *	Rep Stress Incr		NO		WB	0.86	Horz(CT)	0.03	5	n/a		n/a						
BCDL	10.0	Code		FBC2023/TPI2014		Matrix-MS										Weight: 136 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=0-3-8, 5=0-3-8 (req. 0-3-10)
Max Horz 1=-53(LC 34)
Max Uplift 1=-890(LC 8), 5=-1399(LC 9)
Max Grav 1=3855(LC 2), 5=6108(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7286/1674, 2-3=-5324/1235, 3-4=-5326/1236, 4-5=-7690/1765
BOT CHORD 1-8=-1509/6504, 7-8=-1509/6504, 6-7=-1540/6877, 5-6=-1540/6877
WEBS 3-7=-1023/4541, 4-7=-2462/628, 4-6=-460/2136, 2-7=-2031/530, 2-8=-376/1767

- 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.
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.
 - 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=890, 5=1399.
 - Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-8-0 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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Date:

September 10,2025

Continued on page 2

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	LOT 1 CROSSWINDS
4847431	T16	Common Girder	1	2	T38484024

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 2
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-pBNAQvbrOYrlkpdbmz5Q9GJXF8dbqwUo_dWeM6yfMEI

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 5=-1250(B) 7=-1178(B) 12=-1182(B) 13=-1178(B) 14=-1178(B) 15=-1178(B) 16=-1178(B)

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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484025
4847431	T17	Common	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-pBNAQvbrOYrIkpdmbz5Q9GJZz8f9q6Yo_dWeM6yfMEI

10-8-0 12-2-0 1-6-0

1-6-0 5-4-0 5-4-0 5-4-0

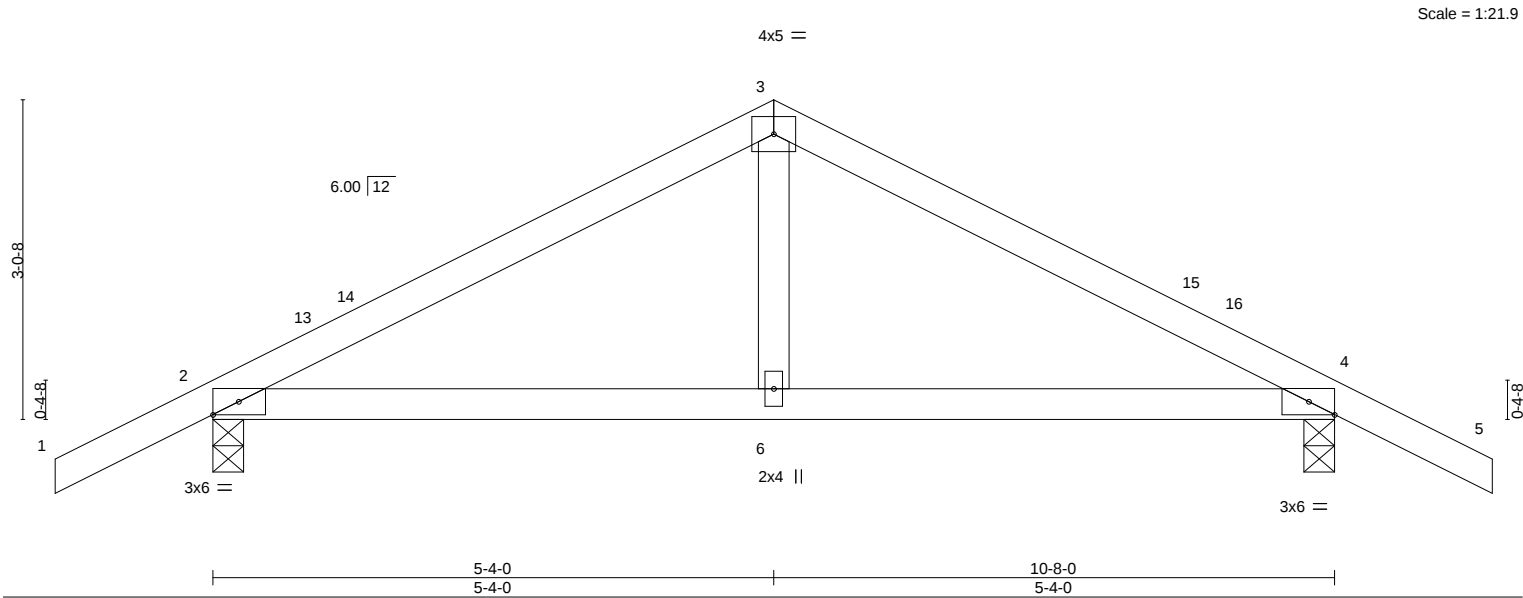


Plate Offsets (X,Y)--		[4:0-2-15,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.04 6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05 6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01 4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 43 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.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=57(LC 12)
Max Uplift 2=-140(LC 9), 4=-140(LC 8)
Max Grav 2=517(LC 1), 4=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-571/382, 3-4=-571/383
BOT CHORD 2-6=-225/454, 4-6=-225/454

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-4-0, Zone2 5-4-0 to 9-6-15, Zone1 9-6-15 to 12-2-0 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.
 - 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=140, 4=140.

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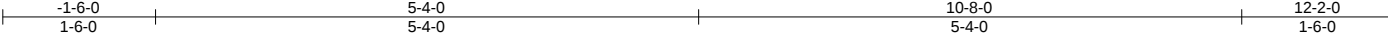
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Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484026
4847431	T17G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:23 2025 Page 1
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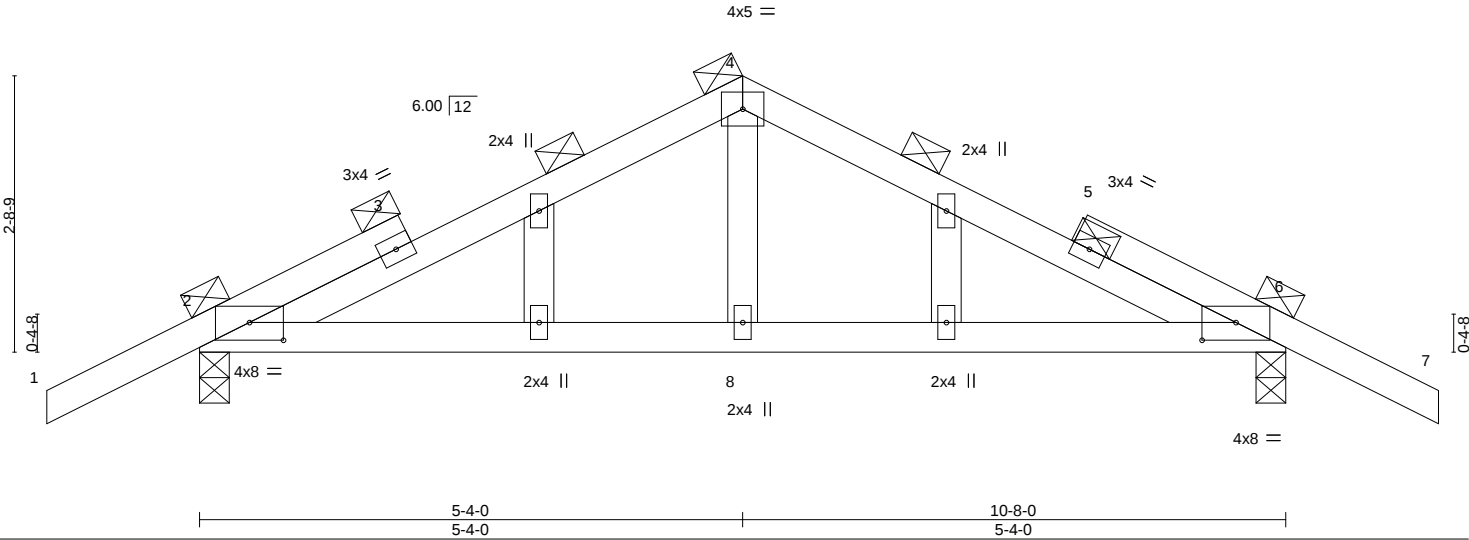


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [6:0-4-0,0-2-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33
TCDL 10.0	Lumber DOL	1.25	BC 0.31
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.04 8-18 >999 240
			Vert(CT) -0.05 8-15 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 50 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 9-9-6 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-52(LC 17)
Max Uplift 2=-142(LC 12), 6=-142(LC 13)
Max Grav 2=514(LC 1), 6=514(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-561/494, 4-6=-560/494
BOT CHORD 2-8=-325/487, 6-8=-325/487

- 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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 6=142.
 - 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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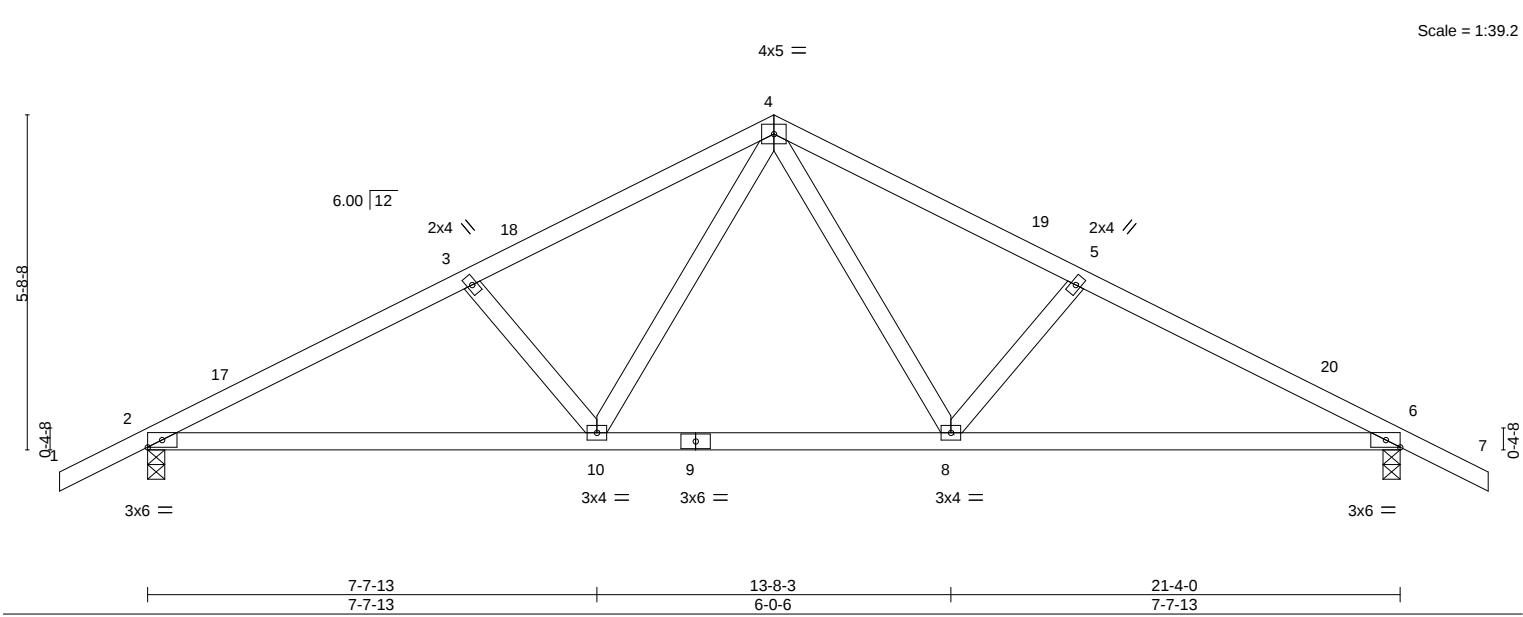
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Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484027
4847431	T18	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:23 2025 Page 1
ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-INxYeFbU9szcMzCnKgcfiTsj1YxbZX?yDHGBvYyfMEk
1-6-0 5-6-5 10-8-0 15-9-11 21-4-0 22-10-0
1-6-0 5-6-5 5-1-11 5-1-11 5-6-5 1-6-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.10 10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.18 10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.04 6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 100 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-9-2 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=101(LC 12)
Max Uplift 2=-268(LC 9), 6=-268(LC 8)
Max Grav 2=943(LC 1), 6=943(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1447/679, 3-4=-1261/662, 4-5=-1261/662, 5-6=-1447/679
BOT CHORD 2-10=-530/1258, 8-10=-302/842, 6-8=-548/1258
WEBS 4-8=-281/456, 5-8=-329/206, 4-10=-281/456, 3-10=-329/206

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 22-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=268, 6=268.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 10,2025

Job	Truss	Truss Type	Qty	Ply	LOT 1 CROSSWINDS	T38484028
4847431	T18G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:24 2025 Page 1

ID:UBRuYsnCX6QV?mddyde3qqLyfNOg-maVvrbc6w95T_7nztN7uEhPqXyGNI?s5Rx?IR_yfMEj

22-10-0

15-9-11

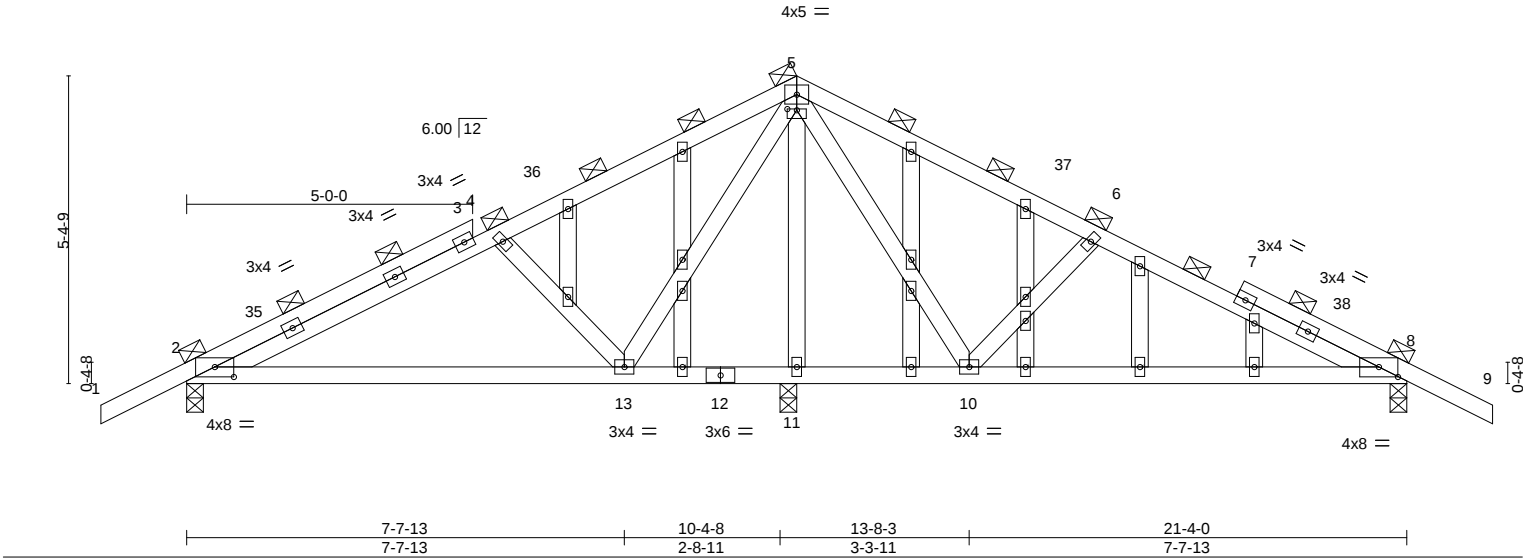
5-1-11

5-6-5

21-4-0

1-6-0

Scale = 1:40.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.09 10-34 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.17 10-34 >738 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 138 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-0-10 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-11-4 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 11=0-3-8
Max Horz 2=-96(LC 17)
Max Uplift 2=-242(LC 9), 8=-244(LC 8), 11=-48(LC 9)
Max Grav 2=859(LC 1), 8=860(LC 1), 11=162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1314/620, 4-5=-1105/580, 5-6=-1120/585, 6-8=-1328/622
BOT CHORD 2-13=-499/1178, 11-13=-251/732, 10-11=-251/732, 8-10=-520/1192
WEBS 5-10=-250/410, 6-10=-389/216, 5-13=-241/394, 4-13=-386/218

- 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 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 22-10-0 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
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=242, 8=244.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

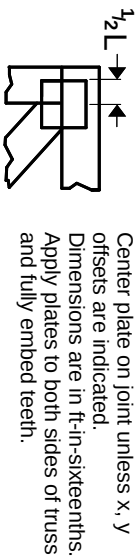
This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

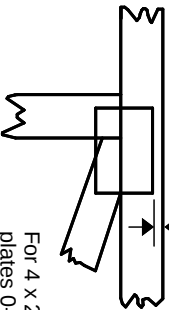
September 10,2025

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

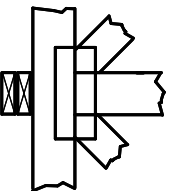
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

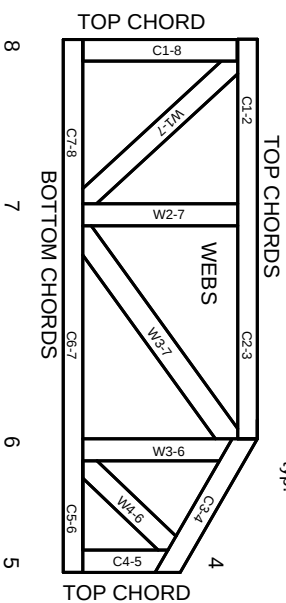
Industry Standards:

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.