



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

RE: 4384572 - LOT 56 CW

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

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec House Model: St. Johns Modified
Lot/Block: 56 Subdivision: Crosswinds
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 28 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.

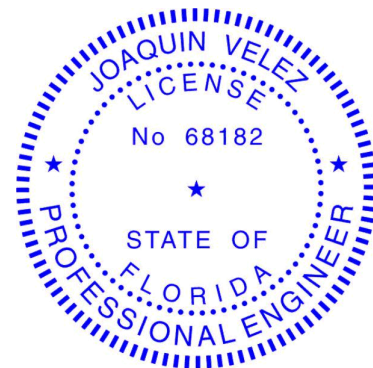
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35877865	CJ01	12/20/24	15	T35877879	T02G	12/20/24
2	T35877866	CJ03	12/20/24	16	T35877880	T03	12/20/24
3	T35877867	CJ05	12/20/24	17	T35877881	T04	12/20/24
4	T35877868	EJ01	12/20/24	18	T35877882	T05	12/20/24
5	T35877869	EJ02	12/20/24	19	T35877883	T06	12/20/24
6	T35877870	EJ03	12/20/24	20	T35877884	T07	12/20/24
7	T35877871	HJ08	12/20/24	21	T35877885	T08	12/20/24
8	T35877872	HJ10	12/20/24	22	T35877886	T09	12/20/24
9	T35877873	PB01	12/20/24	23	T35877887	T10	12/20/24
10	T35877874	PB02	12/20/24	24	T35877888	T11	12/20/24
11	T35877875	PB03	12/20/24	25	T35877889	T12	12/20/24
12	T35877876	PB03G	12/20/24	26	T35877890	T13	12/20/24
13	T35877877	T01	12/20/24	27	T35877891	T14	12/20/24
14	T35877878	T01G	12/20/24	28	T35877892	T14G	12/20/24



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

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.



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

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

December 20,2024

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877865
4384572	CJ01	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:02 2024 Page 1
ID:7WKr8toudn35dxwKwBafQtytHta-N_ziPvEW8?bl7BTJtZtVV63avGLWpgZ2VOjWpuy7Mo?

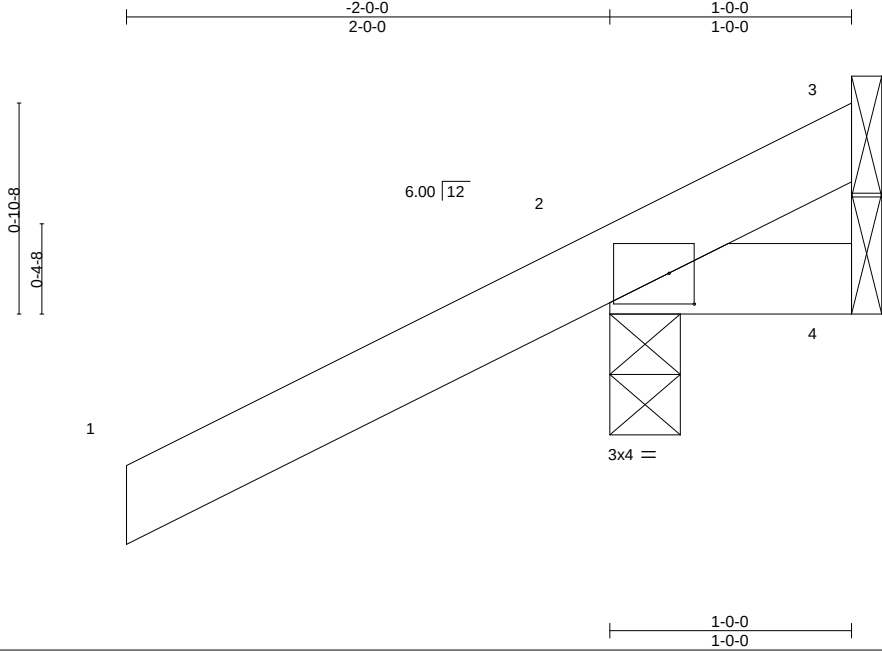


Plate Offsets (X,Y)--		[2:0-1-4,0-1-9]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.31		Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.07		Vert(CT)	0.00 7	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=52(LC 12)
Max Uplift 3=-27(LC 1), 2=-120(LC 12), 4=-46(LC 1)
Max Grav 3=19(LC 16), 2=254(LC 1), 4=33(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 27 lb uplift at joint 3, 120 lb uplift at joint 2 and 46 lb uplift at joint 4.

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

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

Date:
December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877866
4384572	CJ03	Jack-Open	8	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:03 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-rAX5dFF8vjcl2WRHPk2JblffhmY7pBk2S3MKy7Mo_

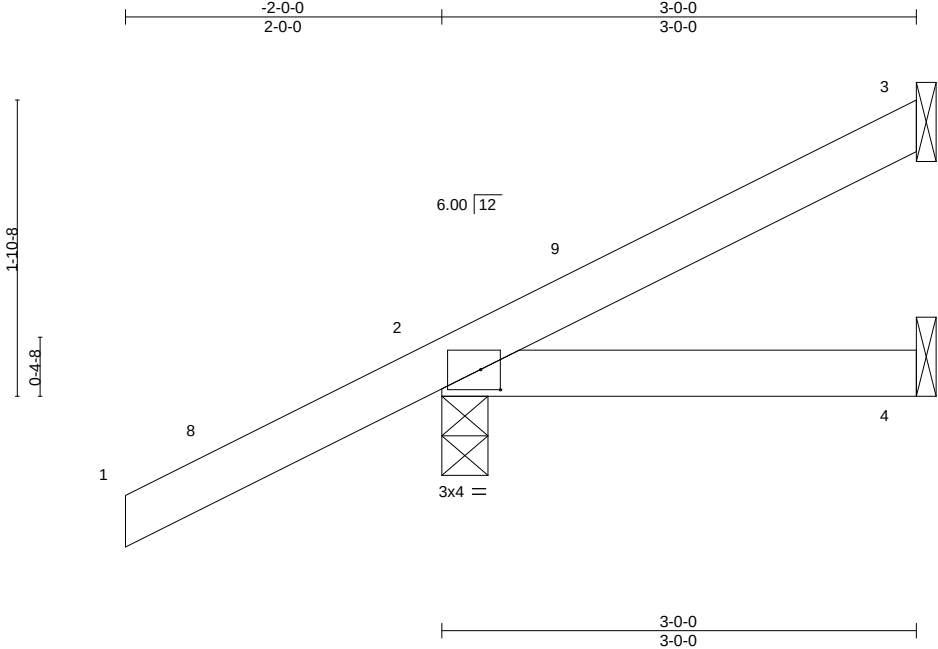


Plate Offsets (X,Y)--		[2:0-1-8,0-1-9]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.00 4-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.07	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 13 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 3=-36(LC 12), 2=-91(LC 12), 4=-16(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 36 lb uplift at joint 3, 91 lb uplift at joint 2 and 16 lb uplift at joint 4.

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

Date:
December 20,2024

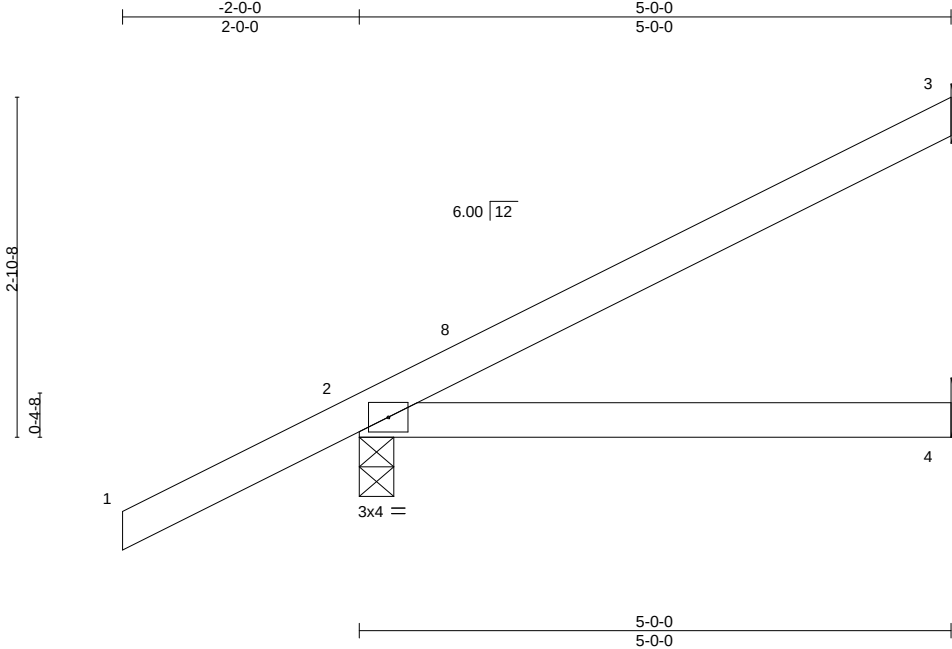
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 56 CW	T35877867
4384572	CJ05	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:03 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-rAX5dFF8vljclL2WRHPk2JblffffY7pBk2S3MKy7Mo_



Scale = 1:19.5

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 7.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP					Weight: 19 lb	FT = 20%

LUMBER-	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=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-97(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(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 -2-0-0 to 1-0-0, Zone1 1-0-0 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 74 lb uplift at joint 3 and 97 lb uplift at joint 2.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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

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

MiTek®
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877868
4384572	EJ01	Jack-Partial	11	1	Job Reference (optional)	

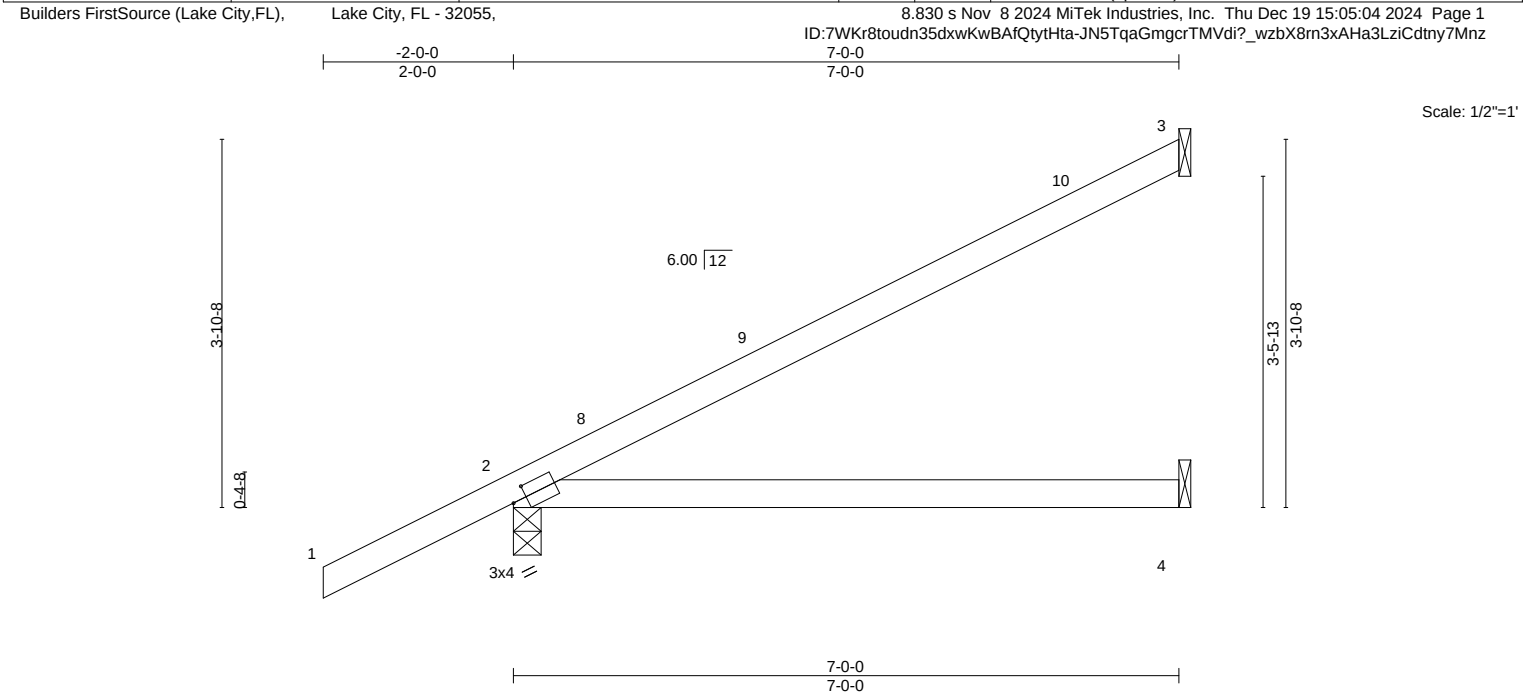


Plate Offsets (X,Y)--		[2:0-1-13,0-1-8]							
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.10 4-7	>839	240	MT20	244/190
	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.21 4-7	>393	180		
	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 2	n/a	n/a		
	Code	FBC2023/TPI2014	Matrix-MS					Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	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=161(LC 12)
	Max Uplift	3=-97(LC 12), 2=-110(LC 12)
	Max Grav	3=160(LC 1), 2=380(LC 1), 4=125(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 97 lb uplift at joint 3 and 110 lb uplift at joint 2.

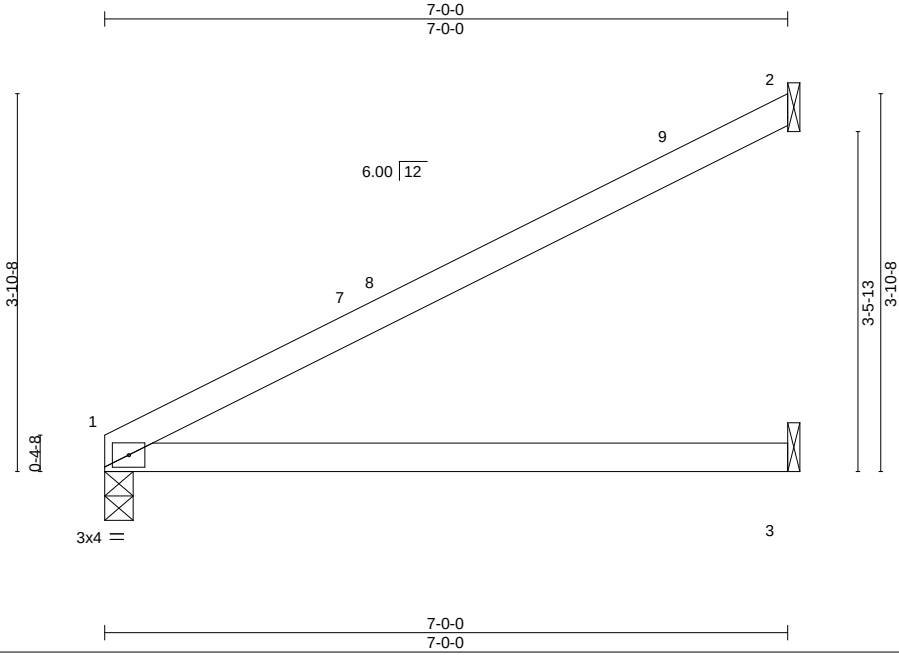
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877869
4384572	EJ02	Jack-Partial	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:04 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-JN5TqaGmgcrTMVdi?_wzbX8qu3wuHa3LziCdtny7Mnz



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 0.66	Vert(LL)	0.13	3-6	>645	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.23	3-6	>358	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	1	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 22 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) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz	1=128(LC 12)
Max Uplift	1=-51(LC 12), 2=-102(LC 12), 3=-4(LC 12)
Max Grav	1=257(LC 1), 2=168(LC 1), 3=127(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- 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 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 51 lb uplift at joint 1, 102 lb uplift at joint 2 and 4 lb uplift at joint 3.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877870
4384572	EJ03	Jack-Partial	3	1	Job Reference (optional)	

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

8.830 s Nov 8 2024
MiTek Industries, Inc.
Thu Dec 19 15:05:05 2024
Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-nZfr2wGPRwzJ_fCuYiRC7kh58TLi01JUBLxAPDy7Mny

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5-0-0
5-0-0

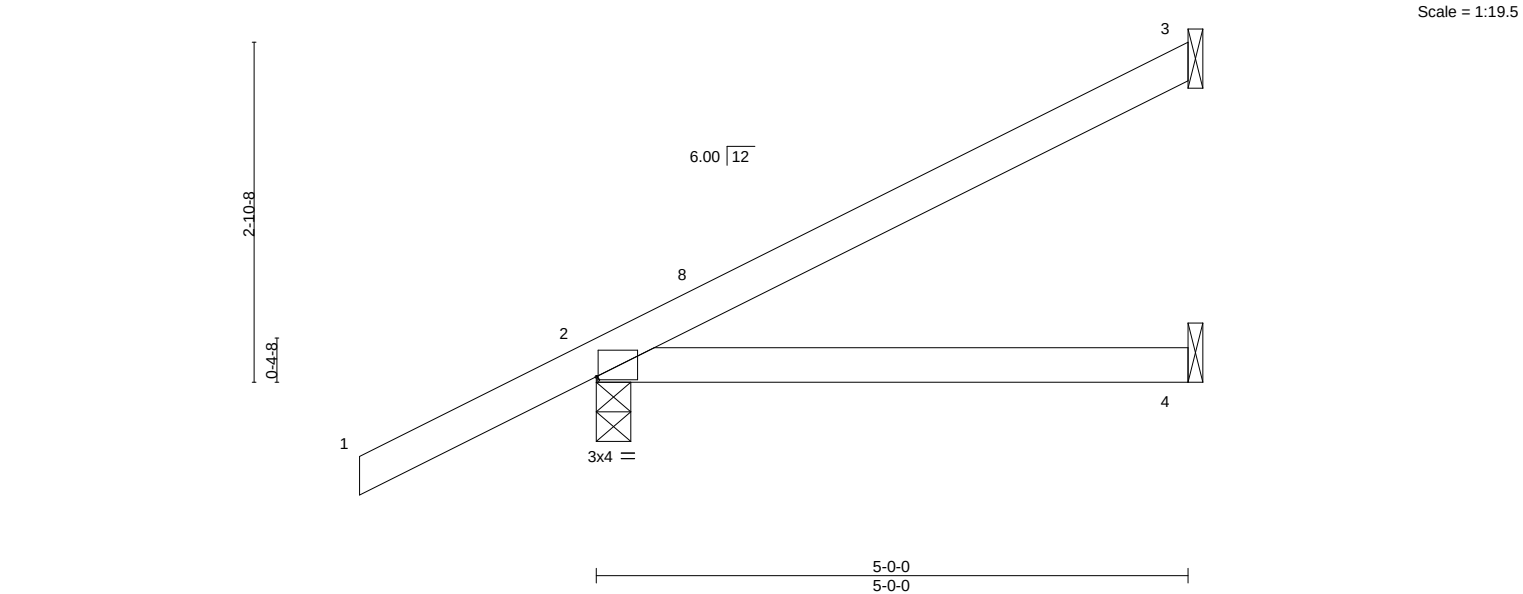


Plate Offsets (X,Y)--		[2:0-0-3,0-0-5]											
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.05	4-7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%	

LUMBER-		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=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-97(LC 12), 4=-32(LC 9)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 74 lb uplift at joint 3, 97 lb uplift at joint 2 and 32 lb uplift at joint 4.

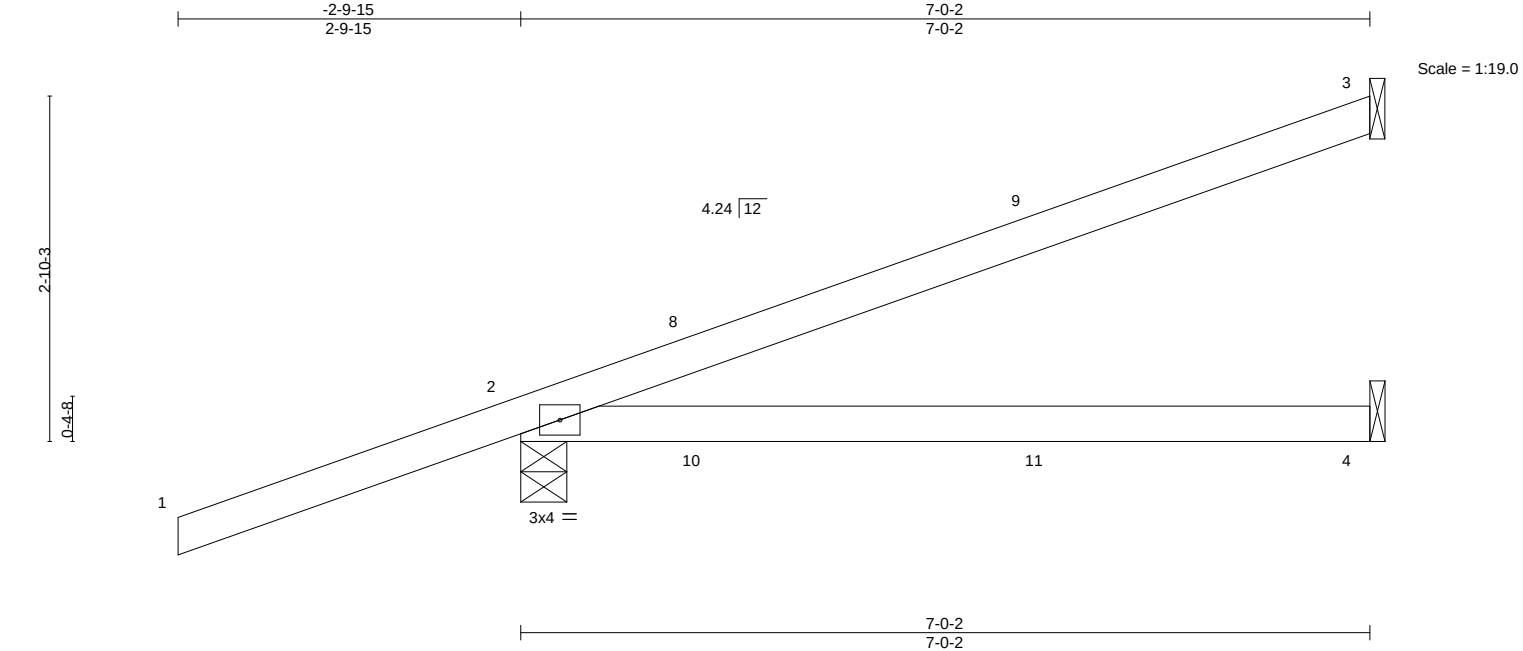
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877871
4384572	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:05 2024 Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-nZfr2wGPRwzJ_fCuYiRC7kh1GTIh01JUBLxAPDy7Mny



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.56	Vert(LL)	-0.10	4-7	>814	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.42	Vert(CT)	-0.14	4-7	>583	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 26 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=146(LC 25)
Max Uplift 3=-89(LC 8), 2=-199(LC 4), 4=-41(LC 5)
Max Grav 3=140(LC 1), 2=346(LC 1), 4=109(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; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 89 lb uplift at joint 3, 199 lb uplift at joint 2 and 41 lb uplift at joint 4.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-6-1, 63 lb down and 103 lb up at 1-6-1, and 22 lb down and 41 lb up at 4-4-0, and 22 lb down and 41 lb up at 4-4-0 on top chord, and 51 lb down and 74 lb up at 1-6-1, 51 lb down and 74 lb up at 1-6-1, and 45 lb down and 23 lb up at 4-4-0, and 45 lb down and 23 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 10=70(F=35, B=35) 11=5(F=2, B=2)

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date:
December 20,2024

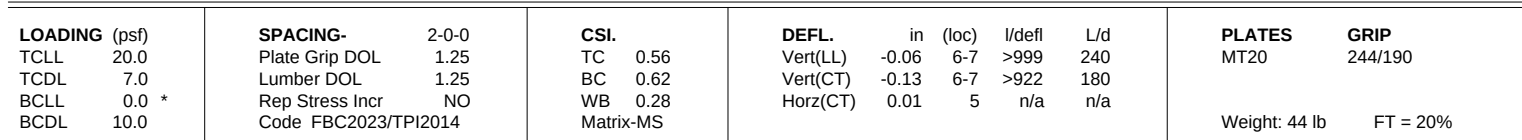
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:06 2024 Page 1
 ID:7WKr8toudn35dxwKwBafQtytHta-FIDDFGH1CD5Acpn46PyRgyDC0tauIQR7eQ2hjxfy7Mnx
 -2-9-15 4-9-0 9-10-1
 2-9-15 4-9-0 5-1-1



REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=180(LC 4)
 Max Uplift 4=-172(LC 4), 2=-231(LC 4), 5=-81(LC 8)
 Max Grav 4=268(LC 1), 2=463(LC 1), 5=267(LC 3)

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 4, 231 lb uplift at joint 2 and 81 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-6-1, 63 lb down and 103 lb up at 1-6-1, 22 lb down and 41 lb up at 4-4-0, 22 lb down and 41 lb up at 4-4-0, 44 lb down and 84 lb up at 7-1-15, and 44 lb down and 84 lb up at 7-1-15, and 124 lb down and 103 lb up at 9-9-5 on top chord, and 25 lb down and 74 lb up at 1-6-1, 25 lb down and 74 lb up at 1-6-1, 19 lb down and 23 lb up at 4-4-0, 19 lb down and 23 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 4=-124(F) 11=50(F=25, B=25) 13=-64(F=-32, B=-32) 15=70(F=35, B=35) 16=5(F=2, B=2) 17=-49(F=-24, B=-24)

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

December 20, 2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877873
4384572	PB01	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:07 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQytHta-jynbTclfzXD1DyMHg7TGc9mTRH2KUx9nffQHU5y7Mnw

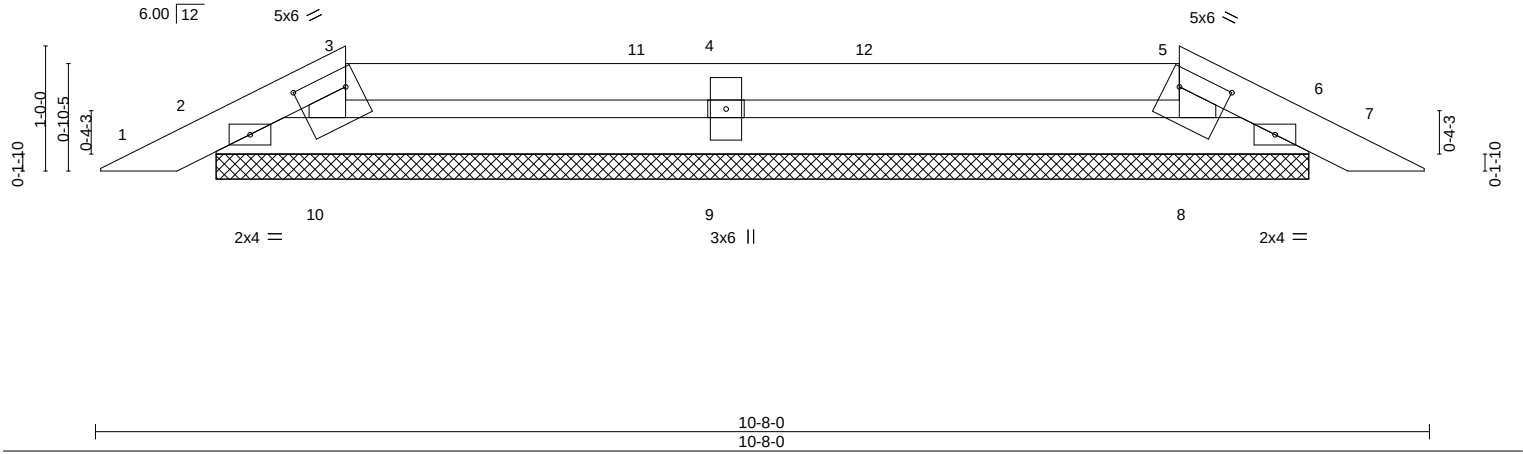
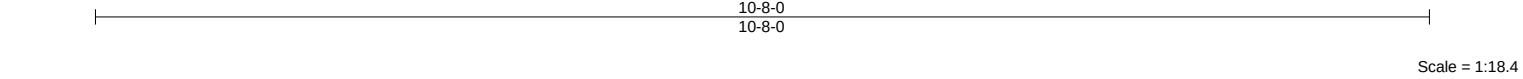


Plate Offsets (X,Y)--		[3:0-4-12,0-1-12], [5:0-4-12,0-1-12]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.00	6	n/r	120	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	6	n/r	120	
BCLL 0.0 **	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S						
								Weight: 30 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 8-8-14.
(lb) - Max Horz 2=12(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=285(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 0-4-3 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 8-8-0, Zone3 8-8-0 to 10-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8, 9.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

Date:
December 20,2024

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Chesterfield, MO 63017
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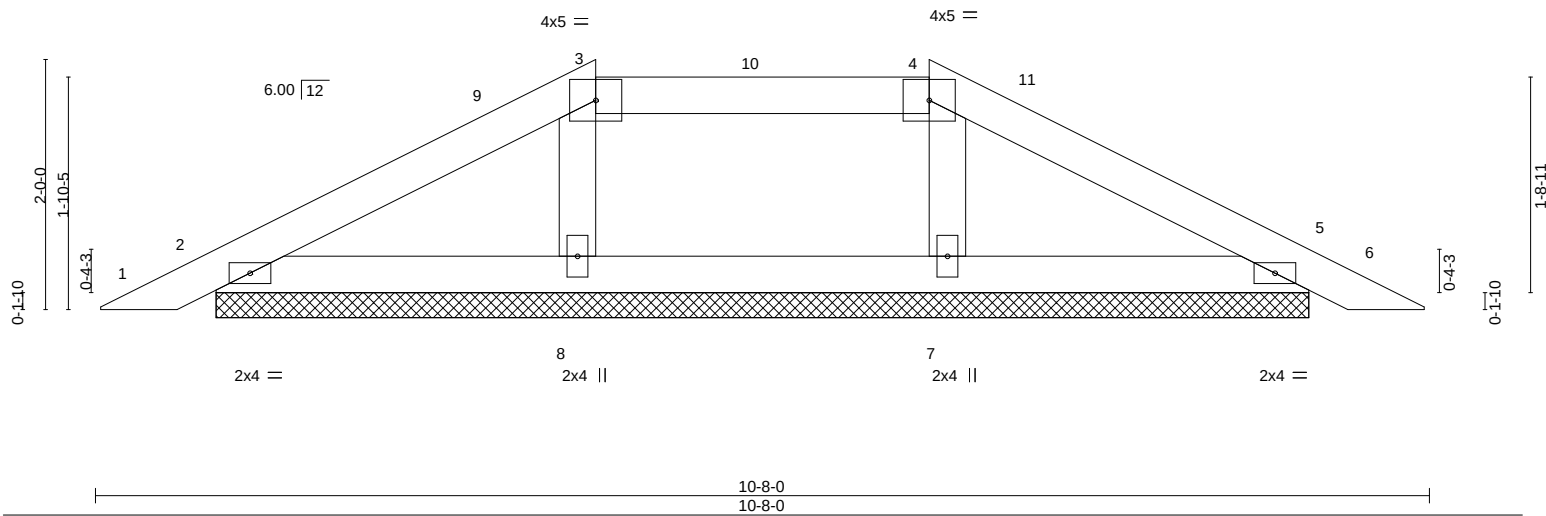
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877874
4384572	PB02	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:07 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-jynbTclfzXD1DyMHg7TgC9mU6H2iUxLnffQHU5y7Mnw

6-8-06-8-010-8-04-0-0

Scale = 1:18.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	0.00 6	n/r	120	MT20	244/190
TCDL 7.0	1.25	BC 0.07	Vert(CT)	0.00 6	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 34 lb	FT = 20%

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

REACTIONS. All bearings 8-8-14.
(lb) - Max Horz 2=-29(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 8

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; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-0-0, Zone3 4-0-0 to 10-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

Date:
December 20,2024

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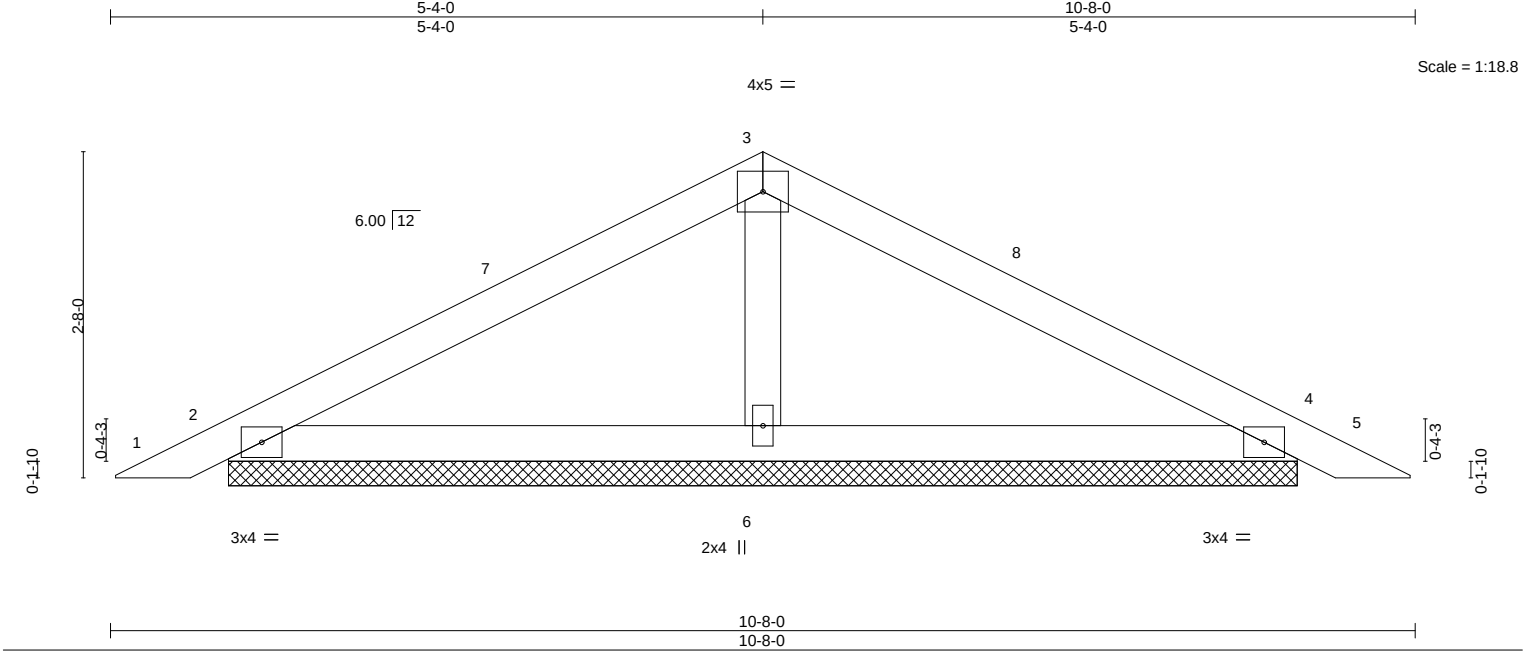
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877875
4384572	PB03	Piggyback	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:08 2024 Page 1
ID:7WKR8toudn35dxwKwBAfQtytHta-B8L_gyJHkrLur6wTEq_vlNJdwgN8DOMwtJAq0Yy7Mnv



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 33 lb	FT = 20%

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

REACTIONS. (size) 2=8-8-14, 4=8-8-14, 6=8-8-14
Max Horz 2=-42(LC 13)
Max Uplift 2=-67(LC 12), 4=-75(LC 13), 6=-64(LC 12)
Max Grav 2=184(LC 25), 4=184(LC 26), 6=348(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 5-4-0, Zone2 5-4-0 to 9-8-7, Zone1 9-8-7 to 10-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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, 4, 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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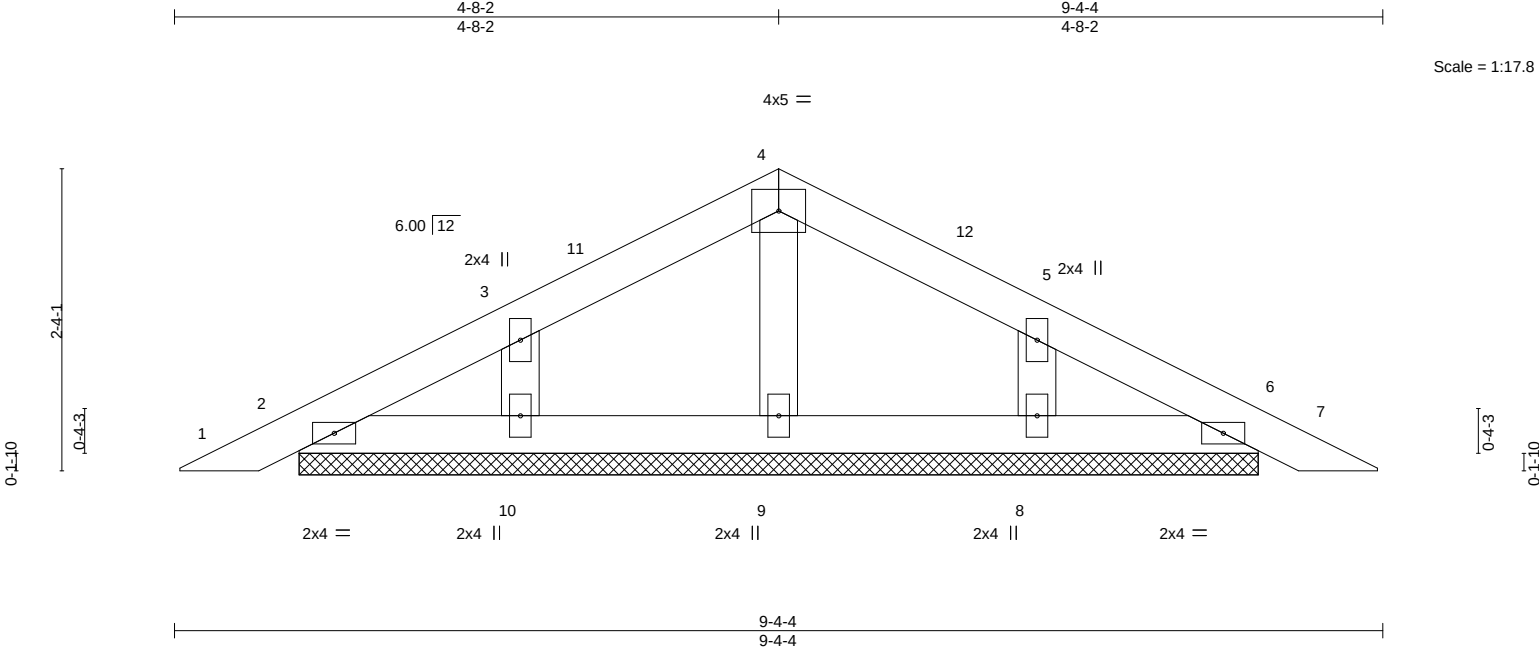
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877876
4384572	PB03G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:08 2024 Page 1
ID:7WKR8toudn35dxwKwBAfQtytHta-B8L_gyJHkrLur6wTEq_vlNJgKgPZDOEwtJAq0Yy7Mnv



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	-0.00	6	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.03	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code FBC2023/TPI2014						Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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 7-5-2.
(lb) - Max Horz 2=-36(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-8-2, Zone3 4-8-2 to 9-0-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 10, 8.
 - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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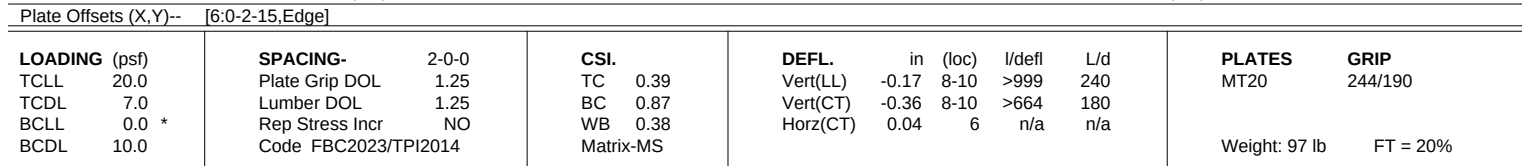
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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:09 2024 Page 1
 ID:7Wkr8toudn35dxwKwBAfQtytHta-gKuMtlJvU8TITGVfnYV8Harls4YgymQ46zvOY_y7Mnu
 -2-0-0 6-4-0 10-0-0 13-8-0 20-0-0 22-0-0
 2-0-0 6-4-0 3-8-0 3-8-0 6-4-0 2-0-0



REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=100(LC 12)
 Max Uplift 2=-324(LC 12), 6=-345(LC 13)
 Max Grav 2=1102(LC 1), 6=1164(LC 1)

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

TOP CHORD	2-3=-1819/509, 3-4=-1796/598, 4-5=-1907/617, 5-6=-1928/534
BOT CHORD	2-10=-414/1559, 8-10=-229/1085, 6-8=-361/1659
WEBS	4-8=-370/989, 5-8=-273/209, 4-10=-315/820, 3-10=-269/208

- 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 2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone;C/C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=324, 6=345.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 10-21=-80(F=-60), 14-21=-20

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Date: December 20, 2024



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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877878
4384572	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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ID:7Wkr8toudn35dxwKwBAfQyHta-gKuMtlJvU8TITGVfnYV8Haro74kdyrX46zvOY_y7Mnu
20-0-0 22-0-0 20-0-0 22-0-0

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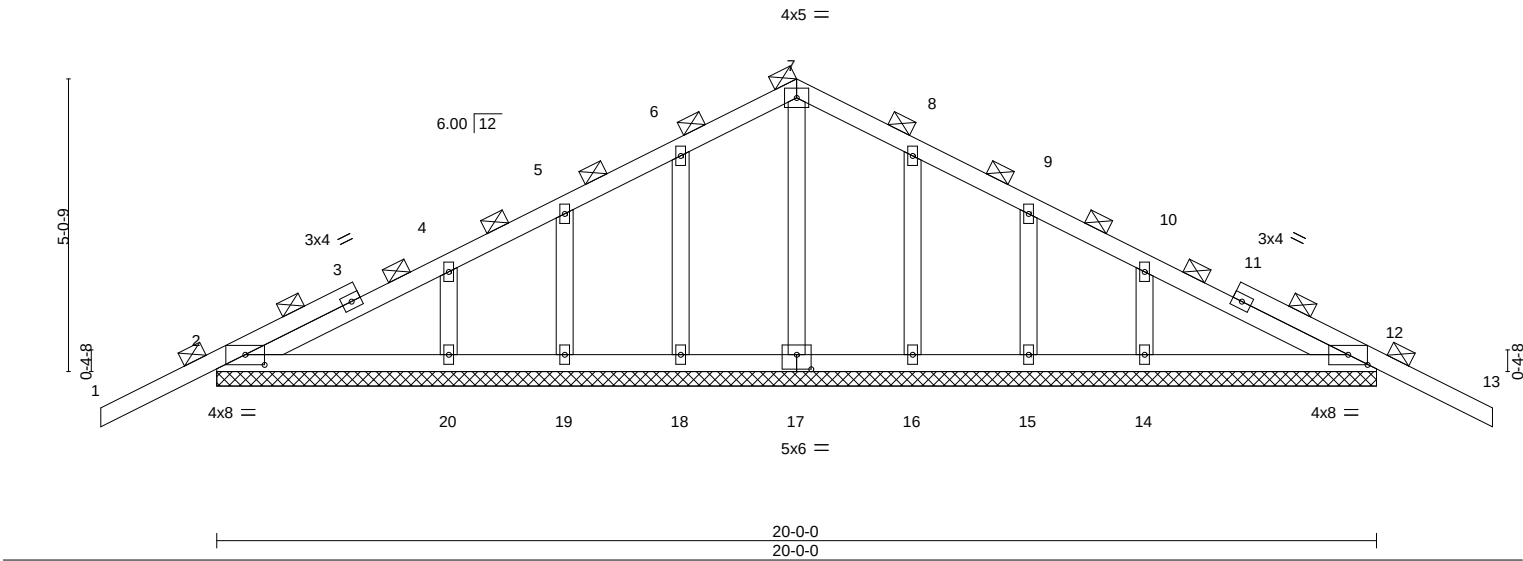


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [17:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24
TCDL 7.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.02 13 n/r 120
			Vert(CT) -0.02 13 n/r 120
			Horz(CT) 0.00 12 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 105 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 20-0-0.
(lb) - Max Horz	2=-95(LC 17)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav	All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(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, 12, 18, 19, 20, 16, 15, 14.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
 - 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 56 CW	T35877879
4384572	T02G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:10 2024 Page 1
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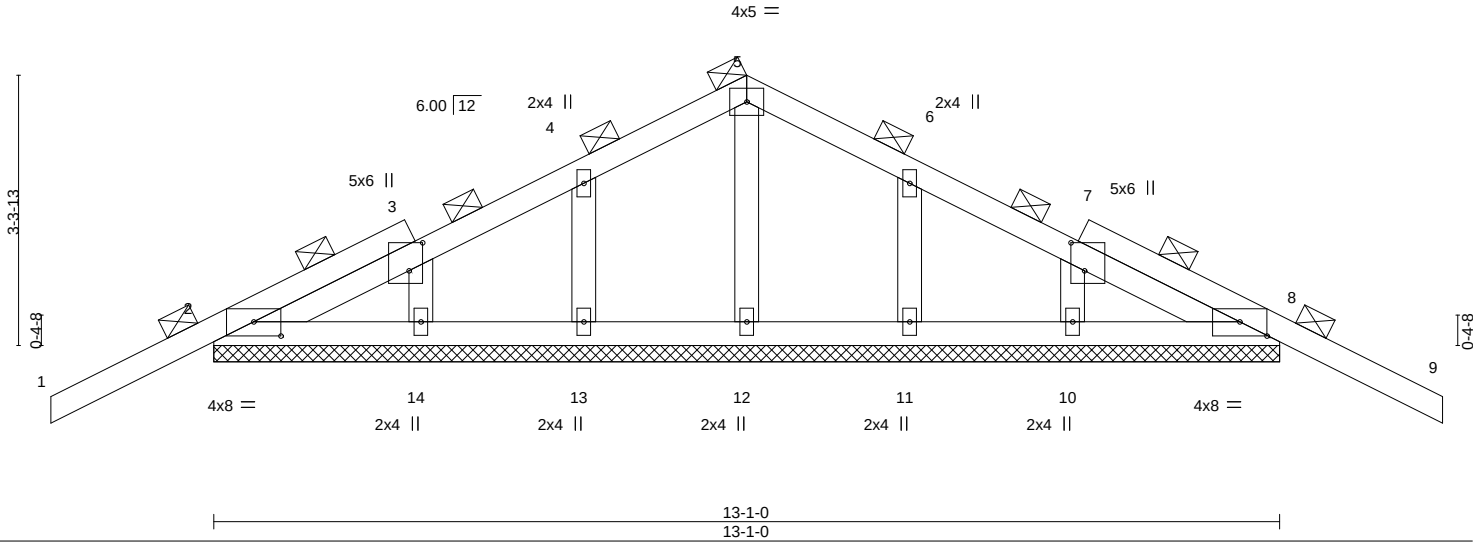
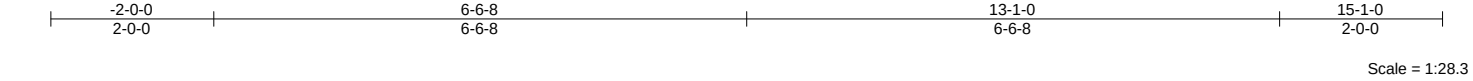


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [3:0-4-2,0-2-0], [7:0-4-2,0-2-0], [8:0-4-0,0-2-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27
TCDL 7.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.02 9 n/r 120
			Vert(CT) -0.03 9 n/r 120
			Horz(CT) 0.00 8 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 66 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 13-1-0.
(lb) - Max Horz 2=-66(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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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877880
4384572	T03	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:11 2024 Page 1
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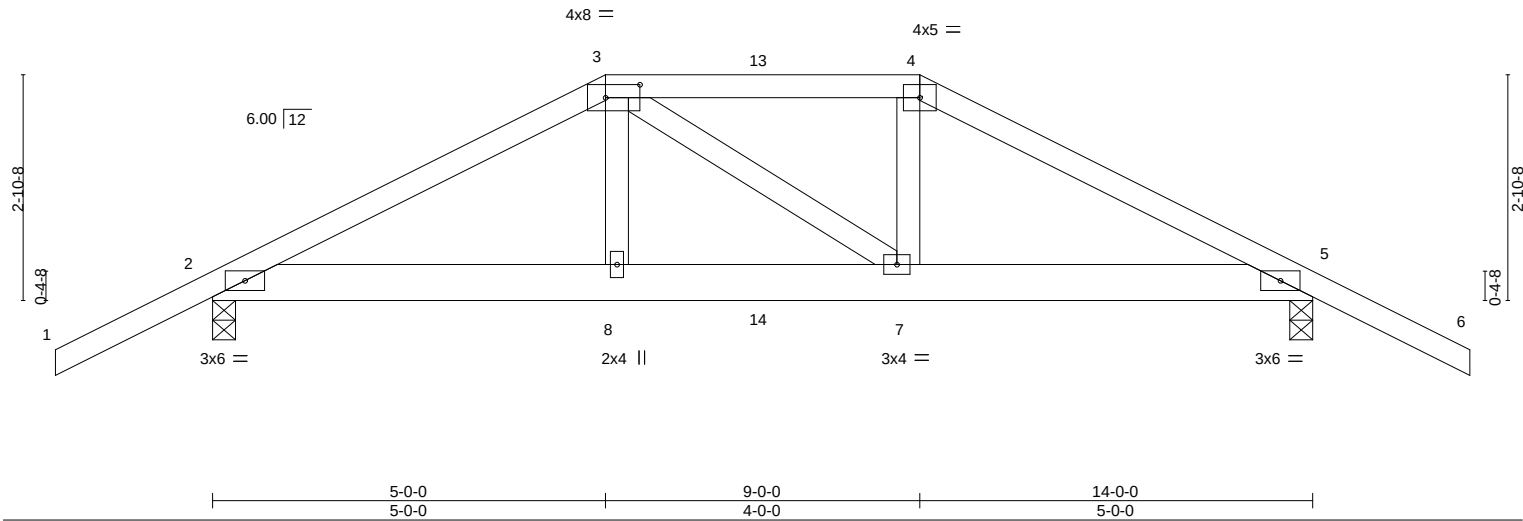


Plate Offsets (X,Y)--		[3:0-5-4,0-2-0]	
LOADING (psf)	SPACING-	CSL.	DEFL.
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.29	Vert(LL) 0.04 7-8 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.12	Vert(CT) -0.05 7-8 >999 180
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 5 n/a n/a
	Code FBC2023/TPI2014		
			PLATES GRIP
			MT20 244/190
			Weight: 75 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-2 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-12 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 5=0-3-8
Max Horz	2=59(LC 8)
Max Uplift	2=-397(LC 8), 5=-402(LC 9)
Max Grav	2=808(LC 1), 5=826(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1189/672, 3-4=-1059/648, 4-5=-1226/699
BOT CHORD	2-8=-566/1017, 7-8=-574/1028, 5-7=-571/1050
WEBS	3-8=-126/315, 4-7=-93/302

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=397, 5=402.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 77 lb up at 5-0-0, and 54 lb down and 69 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 131 lb down and 100 lb up at 5-0-0, and 47 lb down and 46 lb up at 7-0-0, and 131 lb down and 100 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)	Vert: 3=-54(F) 4=-118(F) 8=-61(F) 7=-61(F) 13=-54(F) 14=-33(F)

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Date:

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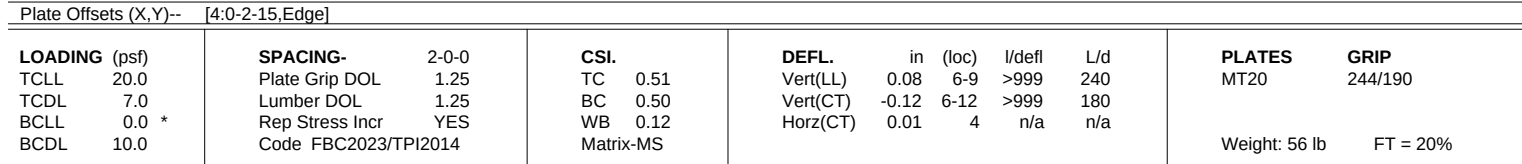
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 ID:7WKr8toudn35dxwkwBAfQyTtHta-cj06l_L90mjTiaf2vyYcN?x3UuKyQkwNaHPUDty7Mns
 2-0-0 7-0-0 14-0-0 16-0-0
 2-0-0 7-0-0 7-0-0 2-0-0



REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-75(LC 13)
 Max Uplift 2=-185(LC 12), 4=-185(LC 13)
 Max Grav 2=626(LC 1), 4=626(LC 1)

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

TOP CHORD	2-3=-700/425, 3-4=-700/425
BOT CHORD	2-6=-255/557, 4-6=-255/557
WEBS	3-6=-162/317

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 4=185.

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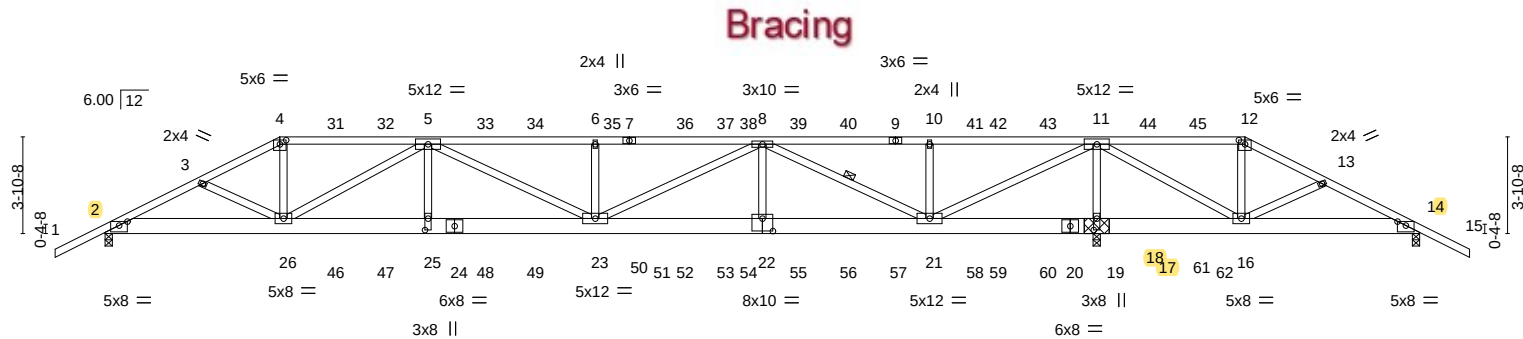
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877882
4384572	T05	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:16 2024 Page 1
-2-0-0 3-10-15 7-0-0 12-11-4 19-7-10 26-4-0 33-0-6 39-8-12 45-8-0 48-9-1 52-8-0 54-8-0		ID:7WKr8toudn35dxwKwBAfQtyHta-zgp?LhPIrIMmplY?iW8n43erov6z5qG6jZ6FI4y7Mnn
2-0-0 3-10-15 3-1-1 5-11-4 6-8-6 6-8-6 6-8-6 6-8-6 5-11-4 3-1-1 3-10-15 2-0-0		

Scale = 1:92.3



7-0-0 12-11-4 19-7-10 26-4-0 33-0-6 39-8-12 45-8-0 52-8-0	
7-0-0 5-11-4 6-8-6 6-8-6 6-8-6 6-8-6 5-11-4 7-0-0	
Plate Offsets (X,Y)--	[2:0-4-0,0-1-15], [4:0-3-0,0-2-0], [12:0-3-0,0-2-0], [14:0-4-0,0-1-15], [18:0-5-8,0-1-8], [22:0-5-0,0-6-0], [25:0-5-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(LL) -0.25 23 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.75	Vert(CT) -0.47 23 >999 180		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Horz(CT) 0.04 18 n/a n/a		
				Weight: 716 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 8-21
5-23,8-23,8-21,11-21: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 18=(0-3-8 + bearing block) (req. 0-3-13), 14=0-3-8
Max Horz 2=75(LC 8)
Max Uplift 2=-861(LC 8), 18=-2358(LC 4), 14=-945(LC 21)
Max Grav 2=2531(LC 21), 18=6505(LC 1), 14=409(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4917/1656, 3-4=-4796/1615, 4-5=-4344/1497, 5-6=-6529/2294, 6-8=-6529/2294, 8-10=-394/270, 10-11=-394/270, 11-12=-809/2302, 12-13=-891/2511, 13-14=-893/2441
BOT CHORD 2-26=-1465/4347, 25-26=-2113/6387, 23-25=-2113/6387, 22-23=-1719/4775, 21-22=-1719/4775, 18-21=-5574/2001, 16-18=-5574/2001, 14-16=-2156/830
WEBS 4-26=-463/1696, 5-26=-2410/881, 5-25=0/586, 6-23=-752/456, 8-23=-626/1975, 8-22=-52/696, 8-21=-4927/1740, 10-21=-712/429, 11-21=-2435/6677, 11-18=-5781/2231, 11-16=-1332/3860, 12-16=-1695/759

- 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: 2x8 - 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.
 - 2x8 SP 2400F 2.0E bearing block 12" long at jt. 18 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16
Total fasteners per block. Bearing is assumed to be SP No.2.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=861, 18=2358, 14=945.

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Chesterfield, MO 63017
Date:

December 20,2024

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/TP11 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 56 CW
4384572	T05	Hip Girder	1	2	T35877882

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:16 2024 Page 2
ID:7WKr8toudn35dxwKwBAfQtytHta-zgp?LhPlrIMmpLY?iW8n43erov6z5qG6jZ6FI4y7Mnn

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 101 lb up at 7-0-0, 106 lb down and 101 lb up at 9-0-12, 106 lb down and 101 lb up at 11-0-12, 106 lb down and 101 lb up at 13-0-12, 106 lb down and 101 lb up at 15-0-12, 106 lb down and 101 lb up at 17-0-12, 106 lb down and 101 lb up at 19-0-12, 106 lb down and 101 lb up at 21-0-12, 114 lb down and 105 lb up at 23-0-12, 114 lb down and 105 lb up at 23-7-4, 114 lb down and 103 lb up at 25-7-4, 114 lb down and 105 lb up at 27-7-4, 114 lb down and 105 lb up at 29-7-4, 114 lb down and 105 lb up at 31-7-4, 114 lb down and 105 lb up at 33-7-4, 114 lb down and 105 lb up at 35-7-4, 114 lb down and 105 lb up at 37-7-4, 114 lb down and 105 lb up at 39-7-4, 106 lb down and 101 lb up at 41-7-4, and 106 lb down and 101 lb up at 43-7-4, and 345 lb down and 277 lb up at 45-8-0 on top chord, and 296 lb down and 108 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 87 lb down and 24 lb up at 23-0-12, 87 lb down and 24 lb up at 23-7-4, 87 lb down and 24 lb up at 25-7-4, 87 lb down and 24 lb up at 27-7-4, 87 lb down and 24 lb up at 29-7-4, 87 lb down and 24 lb up at 31-7-4, 87 lb down and 24 lb up at 33-7-4, 87 lb down and 24 lb up at 35-7-4, 87 lb down and 24 lb up at 37-7-4, 85 lb down at 41-7-4, and 85 lb down at 43-7-4, and 296 lb down and 108 lb up at 45-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-12=-54, 12-15=-54, 2-14=-20
Concentrated Loads (lb)
Vert: 4=-106(B) 7=-106(B) 12=-298(B) 26=-290(B) 5=-106(B) 25=-61(B) 11=-114(B) 16=-290(B) 9=-114(B) 31=-106(B) 32=-106(B) 33=-106(B) 34=-106(B) 35=-106(B) 36=-114(B) 37=-114(B) 38=-114(B) 39=-114(B) 40=-114(B) 41=-114(B) 42=-114(B) 43=-114(B) 44=-106(B) 45=-106(B) 46=-61(B) 47=-61(B) 48=-61(B) 49=-61(B) 50=-61(B) 51=-61(B) 52=-69(B) 53=-69(B) 54=-69(B) 55=-69(B) 56=-69(B) 57=-69(B) 58=-69(B) 59=-69(B) 60=-69(B) 61=-61(B) 62=-61(B)

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877883
4384572	T06	Hip	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:17 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQytHta-RtNNZ1QwccUdQV7CFDf0cGA0aJNKqDHFyDspqWy7Mnm

2-0-0 | 4-10-15 | 9-0-0 | 12-11-4 | 19-7-10 | 26-4-0 | 33-0-6 | 39-8-12 | 43-8-0 | 47-9-1 | 52-8-0 | 54-8-0 | 2-0-0

2-0-0 | 4-10-15 | 4-1-1 | 3-11-4 | 6-8-6 | 6-8-6 | 6-8-6 | 6-8-6 | 3-11-4 | 4-1-1 | 4-10-15 | 2-0-0

Scale: 1/8"=1'

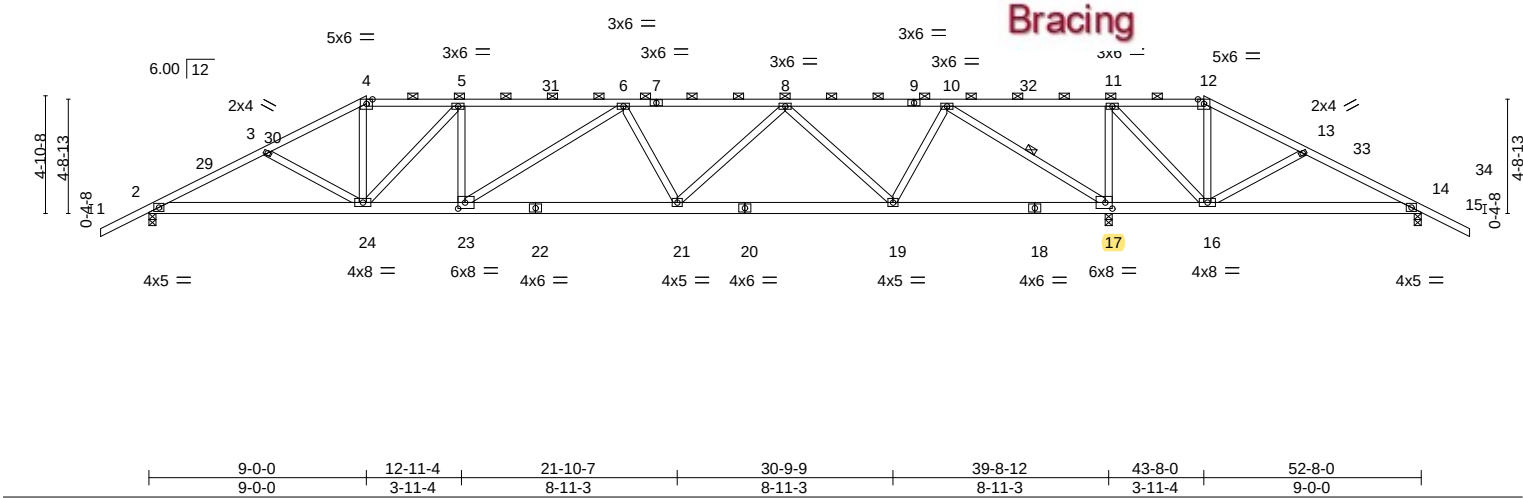


Plate Offsets (X,Y)--		[17:0-3-8,0-3-0], [23:0-3-8,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.18 21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.36 21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.07 17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS						Weight: 319 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-8-1 oc purlins, except 2-0-0 oc purlins (3-5-1 max.): 4-12.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-2-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 10-17

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 14=0-3-8
Max Horz 2=90(LC 12)
Max Uplift 2=436(LC 12), 17=795(LC 8), 14=370(LC 25)
Max Grav 2=1371(LC 25), 17=2819(LC 1), 14=154(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2393/756, 3-4=-2174/674, 4-5=-1885/629, 5-6=-2347/761, 6-8=-2265/732, 8-10=-853/315, 10-11=-506/1888, 11-12=-339/1083, 12-13=-404/1230, 13-14=-403/1136
BOT CHORD 2-24=-674/2115, 23-24=-664/2347, 21-23=-740/2429, 19-21=-551/1743, 17-19=-113/323, 16-17=-1888/580, 14-16=-994/396
WEBS 4-24=-198/767, 5-24=-743/297, 6-21=-367/238, 8-21=-226/740, 8-19=-1253/437, 10-19=-274/1169, 10-17=-2577/825, 11-17=-1251/389, 11-16=-292/1283, 12-16=-665/219, 13-16=-324/195

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 9-0-0, Zone2 9-0-0 to 16-5-6, Zone1 16-5-6 to 43-8-0, Zone2 43-8-0 to 51-1-6, Zone1 51-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=436, 17=795, 14=370.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Date:
December 20,2024

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877884
4384572	T07	Hip	1	1	Job Reference (optional)	

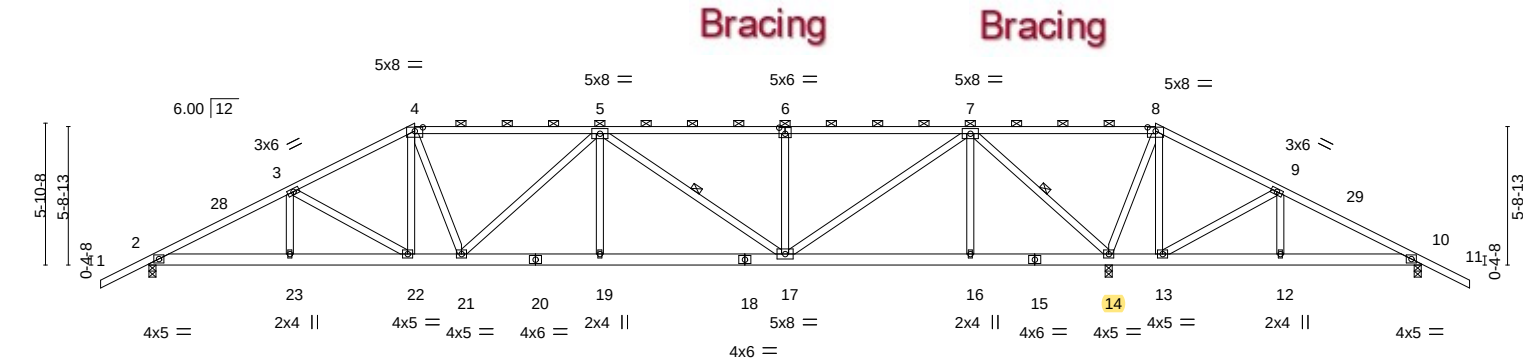
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:18 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQytlHta-v3xlmNQYNvcT2fhOpxAF9Uj9ijj3Zj?PBtbMnZy7Mnl

2-0-0 5-10-0 11-0-0 18-8-0 26-4-0 34-0-0 41-8-0 46-10-0 52-8-0 54-8-0

2-0-0 5-10-0 5-2-0 7-8-0 7-8-0 7-8-0 7-8-0 5-2-0 5-10-0 2-0-0

Scale: 1/8"=1'



Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877885
4384572	T08	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:19 2024 Page 1						
ID:7WKr8toudn35dxwKwBAfQtytHta-NFV8_jRB8DkGgoGaNehUhhGOX60LIAzYPXLvPy7Mnk										
2-0-0	6-10-0	13-0-0	19-8-0	26-4-0	33-0-0	39-8-0	45-10-0	52-8-0	54-8-0	
2-0-0	6-10-0	6-2-0	6-8-0	6-8-0	6-8-0	6-8-0	6-2-0	6-10-0	2-0-0	

Scale = 1:97.0

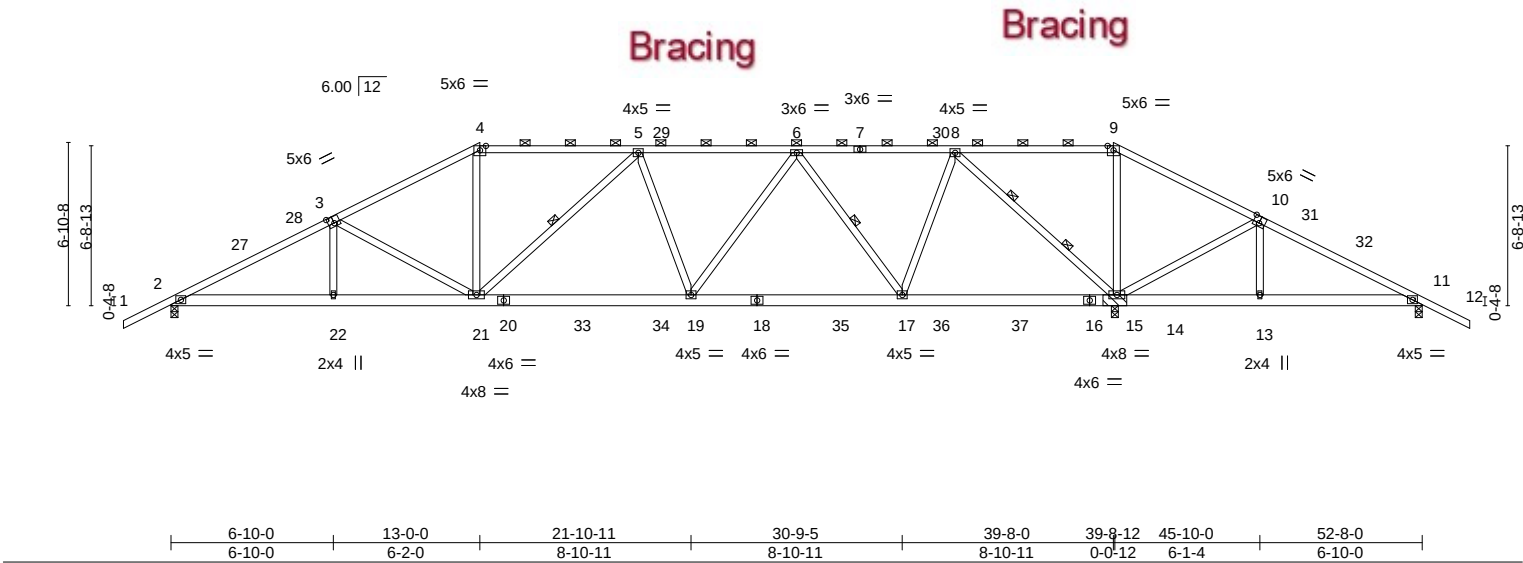


Plate Offsets (X,Y)--		[3:0-3-0,0-3-4], [10:0-3-0,0-3-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.70	Vert(LL)	-0.19	19-21	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.59	Vert(CT)	-0.32	19-21	>999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.82	Horz(CT)	0.07	14	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 330 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except 2-0-0 oc purlins (3-10-3 max.): 4-9.
BOT CHORD 2x6 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	1 Row at midpt 5-21, 6-17
	2 Rows at 1/3 pts 8-14

REACTIONS.	(size) 2=0-3-8, 14=(0-3-8 + bearing block) (req. 0-3-10), 11=0-3-8
	Max Horz 2=-123(LC 17)
	Max Uplift 2=-438(LC 12), 14=-639(LC 8), 11=-308(LC 25)
	Max Grav 2=1504(LC 27), 14=3069(LC 2), 11=119(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2677/726, 3-4=-2145/608, 4-5=-1855/587, 5-6=-1899/546, 6-8=-866/304, 8-9=-231/1308, 9-10=-302/1530, 10-11=-340/1084
BOT CHORD	2-22=-660/2349, 21-22=-660/2351, 19-21=-496/1974, 17-19=-396/1481, 14-17=-134/428, 13-14=-947/341, 11-13=-949/341
WEBS	3-22=0/259, 3-21=-564/261, 4-21=-98/672, 5-21=-288/195, 5-19=-328/223, 6-19=-191/742, 6-17=-1088/363, 8-17=-256/1339, 8-14=-2297/631, 9-14=-912/243, 10-14=-607/273, 10-13=0/263

- NOTES-**
- 1) 2x6 SP No.2 bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 13-0-0, Zone2 13-0-0 to 20-5-6, Zone1 20-5-6 to 39-8-0, Zone2 39-8-0 to 47-1-6, Zone1 47-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=438, 14=639, 11=308.
 - 9) 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:
December 20,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877887
4384572	T10	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:21 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-JeduPPTRgq_2v6QzU3jyn6Lmnwj5m49rtq0zly7Mni

2-0-0 6-4-0 12-11-4 17-0-0 23-3-4 29-4-12 35-8-0 39-8-12 46-4-0 52-8-0 54-8-0
2-0-0 6-4-0 6-7-4 4-0-12 6-3-4 6-1-8 6-3-4 4-0-12 6-7-4 6-4-0 2-0-0

Scale = 1:97.0

Bracing

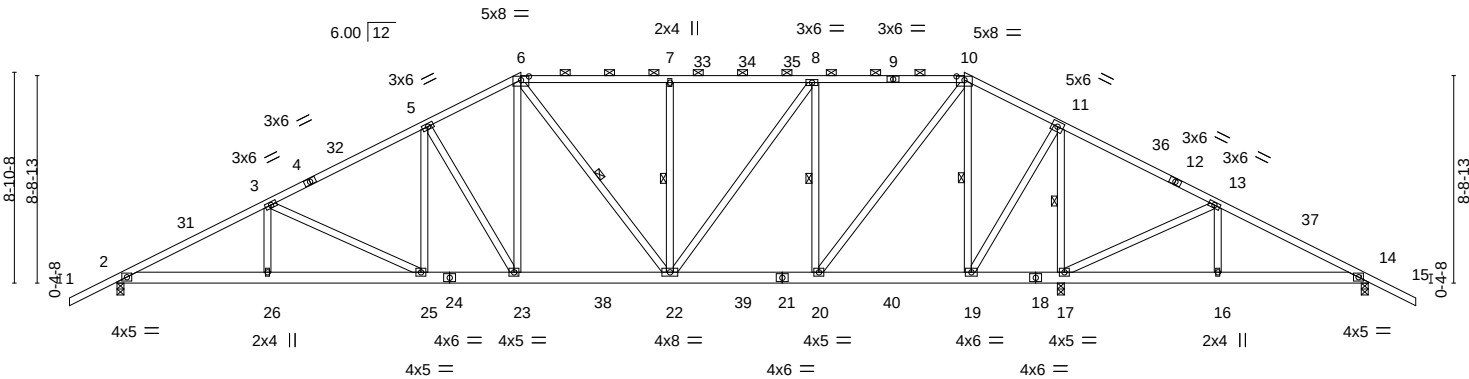


Plate Offsets (X,Y)--	[6:0-4-0,0-1-15], [10:0-4-0,0-1-15]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.16 22-23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.27 22-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.06 17	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 375 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-2-7 max.): 6-10.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS 1 Row at midpt 6-22, 7-22, 8-20, 10-19, 11-17

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 14=0-3-8
Max Horz 2=156(LC 12)
Max Uplift 2=449(LC 12), 17=565(LC 13), 14=141(LC 13)
Max Grav 2=1581(LC 27), 17=2711(LC 2), 14=310(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2893/755, 3-5=-2284/632, 5-6=-1910/588, 6-7=-1592/492, 7-8=-1590/491,
8-10=-1118/361, 10-11=-255/190, 11-13=-173/918, 13-14=-163/436
BOT CHORD 2-26=-726/2547, 25-26=-726/2547, 23-25=-490/1983, 22-23=-348/1667, 20-22=-241/1118,
19-20=-30/257, 17-19=-765/281, 16-17=-370/181, 14-16=-370/181
WEBS 3-26=0/289, 3-25=-626/262, 5-25=-79/436, 5-23=-595/266, 6-23=-202/734,
7-22=-363/201, 8-22=-287/805, 8-20=-955/337, 10-20=-374/1539, 10-19=-1339/332,
11-19=-347/1780, 11-17=-2229/476, 13-17=-620/261, 13-16=0/282

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 17-0-0, Zone2 17-0-0 to 24-5-6, Zone1 24-5-6 to 35-8-0, Zone2 35-8-0 to 43-1-6, Zone1 43-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=449, 17=565, 14=141.
 - 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

December 20,2024

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 the 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/TP11 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
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877888
4384572	T11	Hip	1	1	Job Reference (optional)	

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

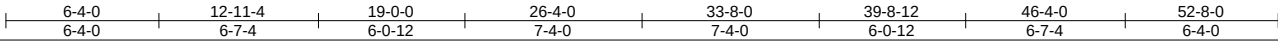
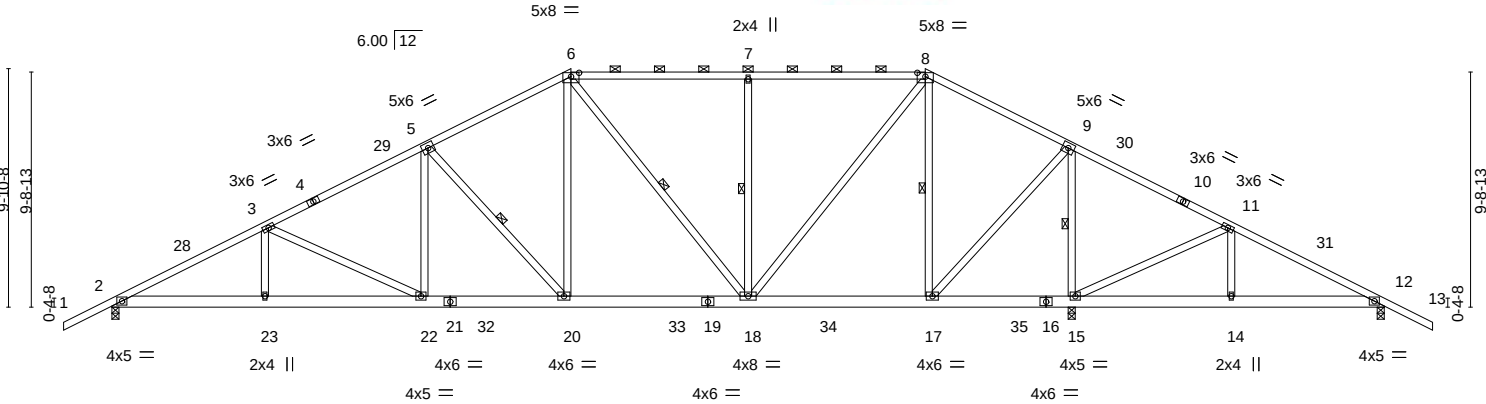
8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:22 2024 Page 1

ID:7Wkr8toudn35dxwKwBAfQytHta-nqBGckT3R86vXG?92mEBJKuvdK29VUS_5VZaWky7Mnh



Scale: 1/8"=1'

Bracing



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.15 20-22 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.26 22-23 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.06 15 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 362 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-5 oc purlins, except 2-0-0 oc purlins (4-6-5 max.): 6-8.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-20, 6-18, 7-18, 8-17, 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=173(LC 12)
Max Uplift 2=447(LC 12), 15=557(LC 13), 12=144(LC 13)
Max Grav 2=1600(LC 2), 15=2723(LC 2), 12=337(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2931/748, 3-5=-2336/629, 5-6=-1784/534, 6-7=-1285/406, 7-8=-1285/406, 8-9=-592/245, 9-11=-162/882, 11-12=-138/394
BOT CHORD 2-23=-736/2580, 22-23=-736/2580, 20-22=-507/2033, 18-20=-295/1533, 17-18=-57/531, 15-17=-730/271, 14-15=-333/168, 12-14=-333/168
WEBS 3-23=0/283, 3-22=-606/253, 5-22=-71/498, 5-20=-726/310, 6-20=-190/827, 6-18=-460/182, 7-18=-473/263, 8-18=-357/1299, 8-17=-1036/274, 9-17=-317/1780, 9-15=-2203/482, 11-15=-609/254, 11-14=0/281

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 19-0-0, Zone2 19-0-0 to 26-4-0, Zone1 26-4-0 to 33-8-0, Zone2 33-8-0 to 41-1-6, Zone1 41-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 (it=lb) 2=447, 15=557, 12=144.
 - 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

December 20,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877889
4384572	T12	Hip	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:23 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-F1lep4UhBSEm8QaMcUmQsXQ2njOAE_e8K9J72Ay7Mng



Scale: 1/8"=1'

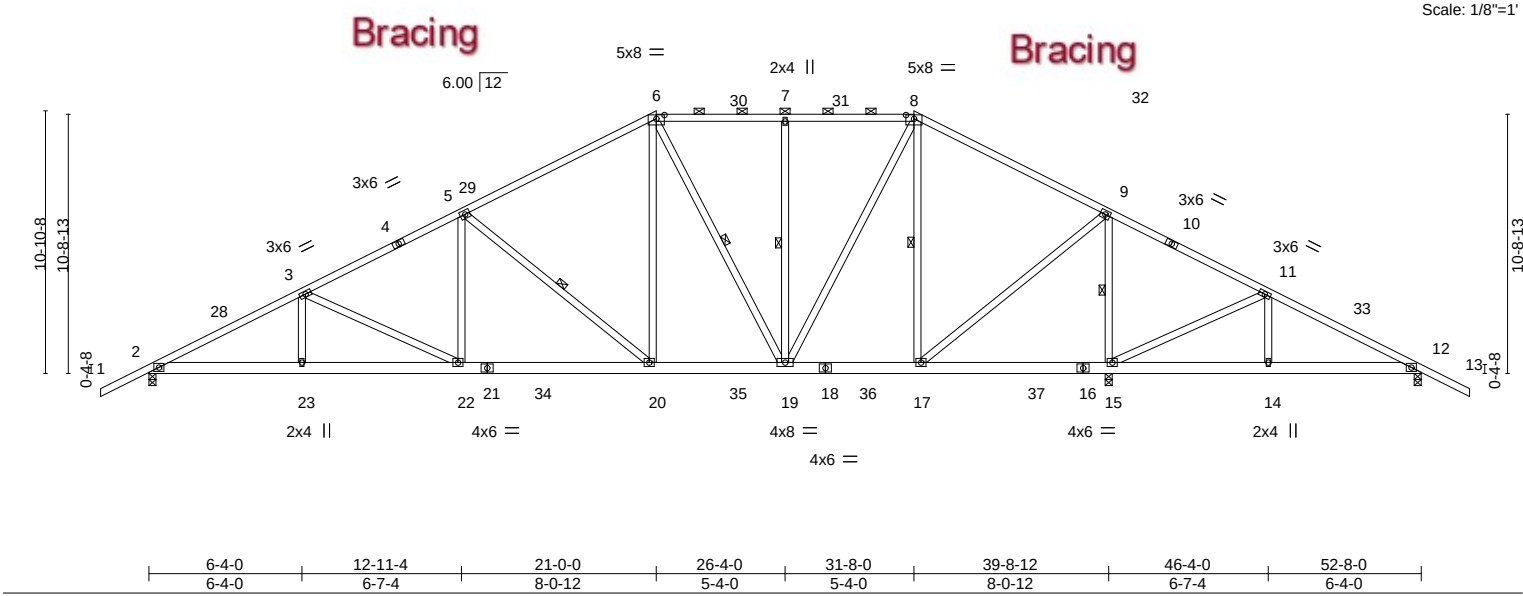


Plate Offsets (X,Y)--	[6:0-4-0,0-1-15], [8:0-4-0,0-1-15]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.17 20-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.29 20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.06 15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 370 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-3-15 max.): 6-8.
WEBS 2x4 SP No.3	Rigid ceiling directly applied or 6-0-0 oc bracing.
	1 Row at midpt 5-20, 6-19, 7-19, 8-17, 9-15

REACTIONS.	(size)
Max Horz	2=190(LC 12)
Max Uplift	2=445(LC 12), 15=549(LC 13), 12=147(LC 13)
Max Grav	2=1607(LC 2), 15=2686(LC 2), 12=365(LC 26)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2933/742, 3-5=-2371/630, 5-6=-1632/483, 6-7=-1152/394, 7-8=-1152/394, 8-9=-853/280, 9-11=-144/808, 11-12=-156/343
BOT CHORD	2-23=-744/2580, 22-23=-744/2580, 20-22=-531/2071, 19-20=-241/1376, 17-19=-63/728, 15-17=-657/256, 14-15=-287/154, 12-14=-287/154
WEBS	3-23=0/267, 3-22=-565/237, 5-22=-55/550, 5-20=-881/369, 6-20=-192/854, 6-19=-540/203, 7-19=-325/184, 8-19=-300/1017, 8-17=-813/242, 9-17=-316/1735, 9-15=-2122/492, 11-15=-571/238, 11-14=0/268

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6, Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=445, 15=549, 12=147.
 - 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

Date:
December 20,2024

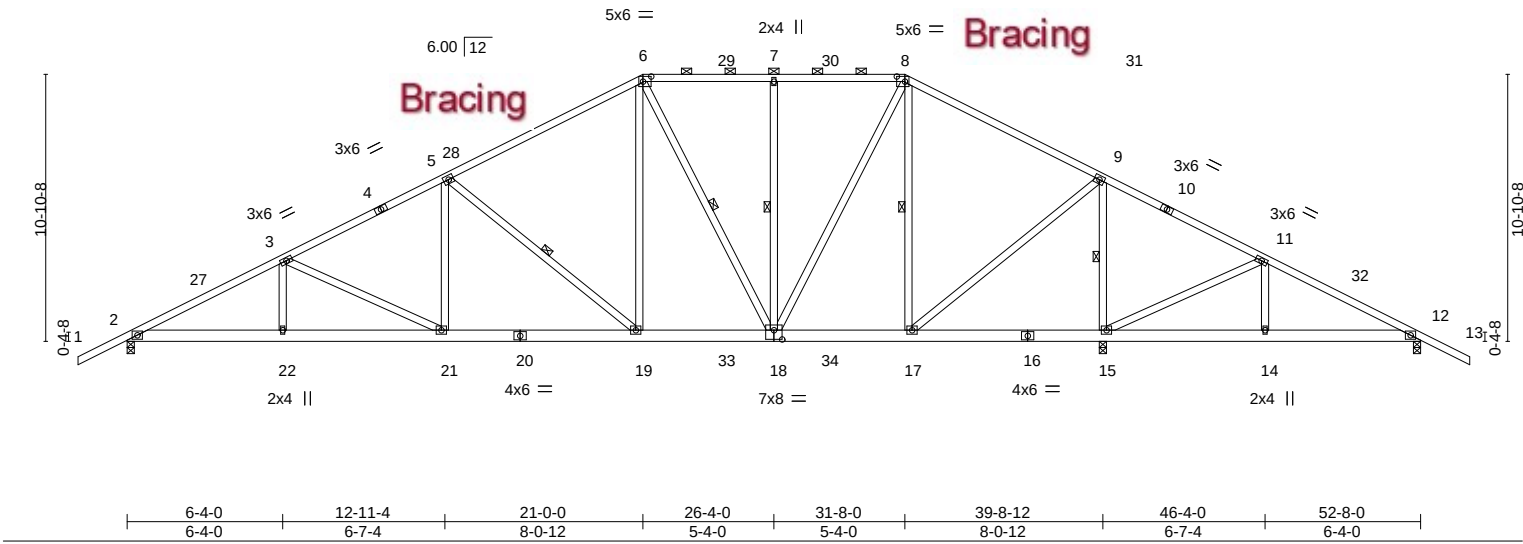
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MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877890
4384572	T13	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:24 2024 Page 1
ID:7Wkr8toudn35dxwKwBAfQyHta-kDI11QVJyIMdma9YABHfOizDU7kPzRpHZp2gacy7Mnf
2-0-0 6-4-0 12-11-4 21-0-0 26-4-0 31-8-0 39-8-12 46-4-0 52-8-0 54-8-0
2-0-0 6-4-0 6-7-4 8-0-12 5-4-0 5-4-0 8-0-12 6-7-4 6-4-0 2-0-0
Scale = 1:93.8



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.17 19-21 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.29 19-21 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06 15 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 371 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x6 SP No.2		2-0-0 oc purlins (5-4-6 max.): 6-8.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
		WEBS	1 Row at midpt 5-19, 6-18, 7-18, 8-17, 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=192(LC 12)
Max Uplift 2=445(LC 12), 15=548(LC 13), 12=147(LC 13)
Max Grav 2=1607(LC 2), 15=2680(LC 2), 12=367(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2934/741, 3-5=-2371/630, 5-6=-1629/482, 6-7=-1137/392, 7-8=-1137/392,
8-9=-855/280, 9-11=-142/801, 11-12=-161/336
BOT CHORD 2-22=-746/2580, 21-22=-746/2580, 19-21=-532/2071, 18-19=-239/1366, 17-18=-63/726,
15-17=-651/256, 14-15=-281/153, 12-14=-281/153
WEBS 3-22=0/267, 3-21=-566/236, 5-21=-55/549, 5-19=-894/375, 6-19=-195/862,
6-18=-547/208, 7-18=-306/178, 8-18=-296/1002, 8-17=-807/241, 9-17=-313/1723,
9-15=-2117/491, 11-15=-571/238, 11-14=0/268

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6,
Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 4x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=445, 15=548, 12=147.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW	T35877891
4384572	T14	Piggyback Base	3	1	Job Reference (optional)	

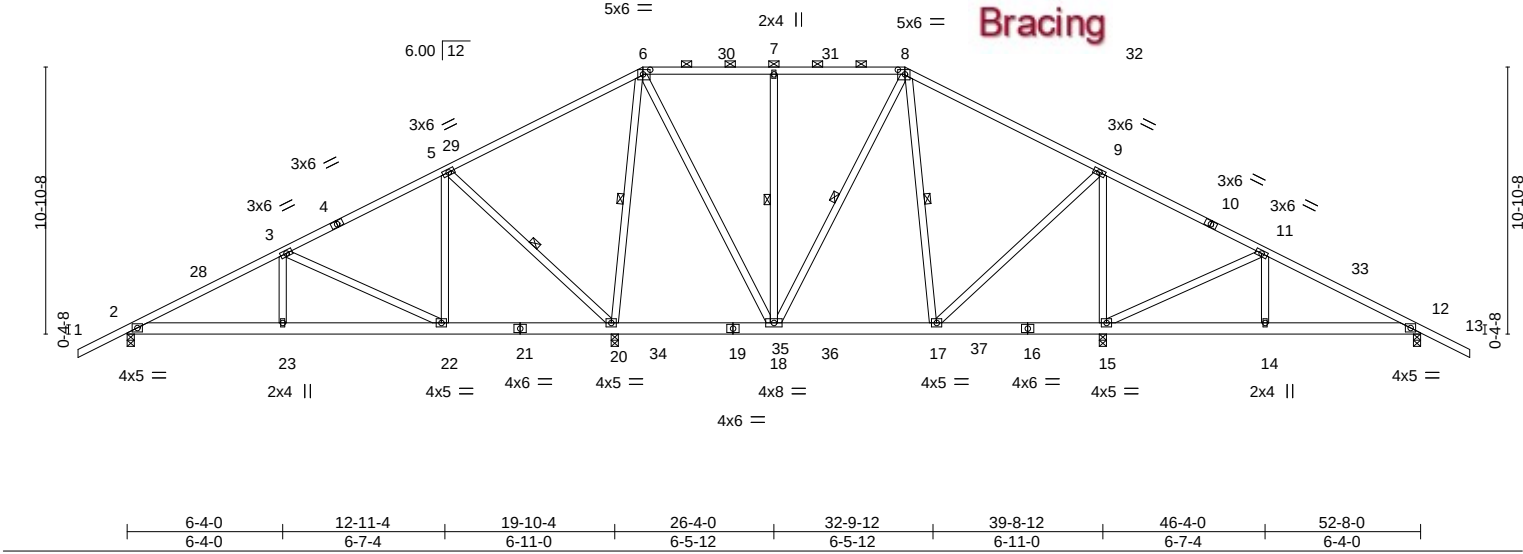
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:25 2024 Page 1

ID:7WKr8toudn35dxwKwBAfQytHta-CPsPEmWxj3UUOjkkjvouxvWQzX8SivhQoToE63y7Mne



Scale = 1:93.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.04 23-25 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06 23-25 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.01 12 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 369 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-5 oc purlins, except
BOT CHORD	2x6 SP No.2		2-0-0 oc purlins (6-0-0 max.): 6-8.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
			6-0-0 oc bracing: 18-20,15-17.
		WEBS	1 Row at midpt 5-20, 6-20, 7-18, 8-18, 8-17

REACTIONS.	
All bearings 0-3-8.	
(lb) - Max Horz	2=-192(LC 13)
Max Uplift	All uplift 100 lb or less at joint(s) except 2=-203(LC 9), 20=-577(LC 9), 15=-406(LC 13), 12=-168(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) except 2=701(LC 27), 20=1964(LC 2), 15=1477(LC 28), 12=480(LC 26)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-925/366, 3-5=-335/151, 5-6=-122/528, 8-9=-304/203, 9-11=-115/367, 11-12=-415/166
BOT CHORD	2-23=-286/819, 22-23=-286/819, 20-22=-58/347, 18-20=-252/330, 15-17=-263/257, 14-15=-60/317, 12-14=-60/317
WEBS	3-23=-125/285, 3-22=-592/301, 5-22=-240/510, 5-20=-829/451, 6-20=-1094/309, 6-18=-157/696, 7-18=-306/178, 9-17=-51/558, 9-15=-945/346, 11-15=-584/328, 11-14=-148/279

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6, Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 203 lb uplift at joint 2, 577 lb uplift at joint 20, 406 lb uplift at joint 15 and 168 lb uplift at joint 12.
 - 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

Date:
December 20,2024

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 56 CW	T35877892
4384572	T14G	GABLE Gable Gable COMMON Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:27 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-8o_9fSXCFgKcd1t7rKqM0NbjHLq8AqQJFnHKBxy7Mnc
2-0-0 6-4-0 12-11-4 21-7-14 26-4-0 31-0-2 39-8-12 46-4-0 52-8-0 54-8-0
2-0-0 6-4-0 6-7-4 8-8-10 4-8-2 4-8-2 8-8-10 6-7-4 6-4-0 2-0-0

Scale = 1:98.6

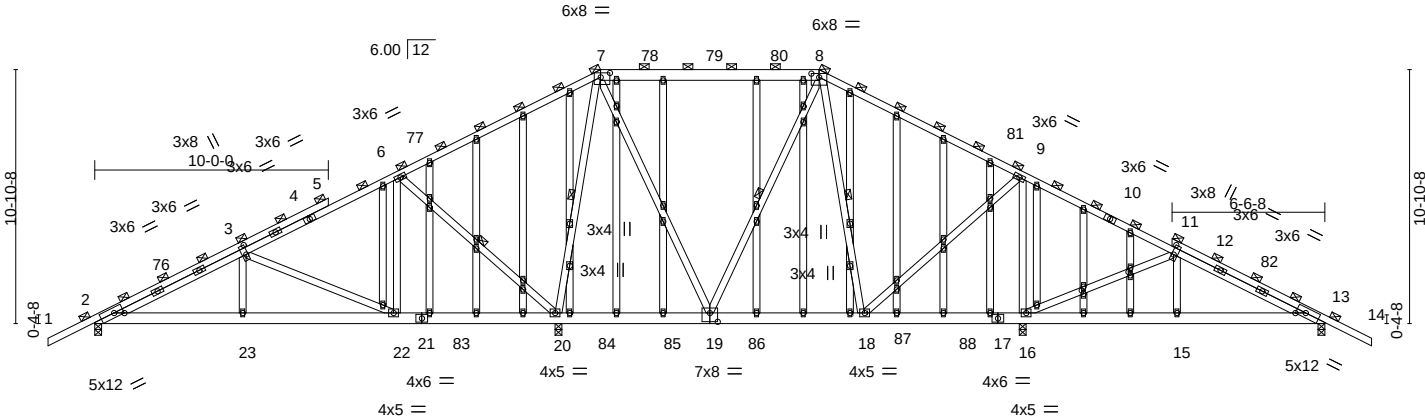


Plate Offsets (X,Y)--	[2:0-4-12,Edge], [3:0-5-0,0-1-0], [7:0-4-12,0-2-4], [8:0-4-0,0-1-15], [12:0-5-0,0-1-0], [13:0-4-12,Edge], [19:0-4-0,0-4-8], [66:0-1-12,0-1-0], [69:0-1-12,0-1-0]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL)	-0.03 23-72	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT)	-0.05 23-72	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT)	0.01 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS					Weight: 563 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-8: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,16-18.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 7-20, 8-19, 8-18
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=192(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-216(LC 12), 13=-177(LC 13), 20=-540(LC 9),
16=-404(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=736(LC 27), 13=501(LC 26), 20=1894(LC 2), 16=1452(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-985/403, 3-6=-419/191, 6-7=-107/489, 8-9=-341/215, 9-12=-103/320,
12-13=-423/187
BOT CHORD 2-23=-309/878, 22-23=-309/878, 20-22=-86/408, 19-20=-132/278, 18-19=0/266,
15-16=-83/350, 13-15=-83/350
WEBS 3-23=-119/276, 3-22=-582/286, 6-22=-231/493, 6-20=-843/458, 7-20=-1049/288,
7-19=-80/536, 8-19=-274/128, 9-18=-40/546, 9-16=-934/350, 12-16=-577/318,
12-15=-139/266

- 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-7-14, Zone2 21-7-14 to 29-1-4, Zone1 29-1-4 to 31-0-2, Zone2 31-0-2 to 38-5-8, Zone1 38-5-8 to 54-8-0 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/TP1 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 177 lb uplift at joint 13, 540 lb uplift at joint 20 and 404 lb uplift at joint 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Chesterfield, MO 63017

Date: December 20,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 12/2023 BEFORE USE.

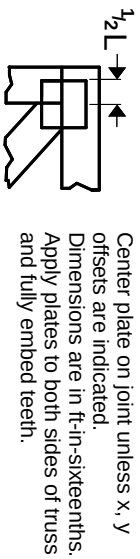
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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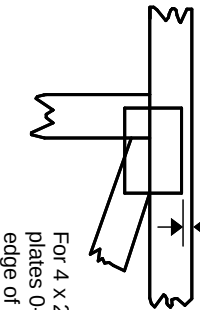
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

—
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

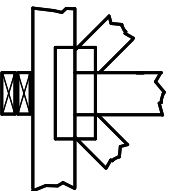
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

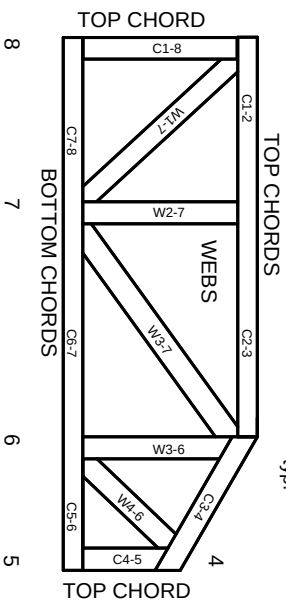
Industry Standards:

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.