



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

RE: 4558297 - GIEBEIG - LOT 19 CW

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

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified
Lot/Block: 19 Subdivision: Crosswinds
Address: TBD SW Chesterfield Circle, 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 29 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	T36788332	CJ1	3/26/25	15	T36788346	T09	3/26/25
2	T36788333	CJ3	3/26/25	16	T36788347	T10	3/26/25
3	T36788334	CJ5	3/26/25	17	T36788348	T11	3/26/25
4	T36788335	EJ5	3/26/25	18	T36788349	T12	3/26/25
5	T36788336	EJ7	3/26/25	19	T36788350	T13	3/26/25
6	T36788337	HJ7	3/26/25	20	T36788351	T14	3/26/25
7	T36788338	HJ9	3/26/25	21	T36788352	T15	3/26/25
8	T36788339	T03	3/26/25	22	T36788353	T16	3/26/25
9	T36788340	T03G	3/26/25	23	T36788354	T17	3/26/25
10	T36788341	T04	3/26/25	24	T36788355	T18	3/26/25
11	T36788342	T05	3/26/25	25	T36788356	T18G	3/26/25
12	T36788343	T06	3/26/25	26	T36788357	T19	3/26/25
13	T36788344	T07	3/26/25	27	T36788358	T19A	3/26/25
14	T36788345	T08	3/26/25	28	T36788359	T20	3/26/25

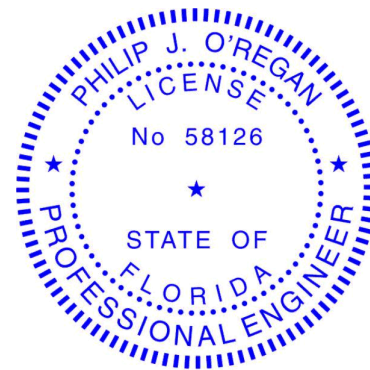
This item has been digitally signed and sealed by O'Regan, Philip, PE on the date adjacent to the seal.

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: O'Regan, Philip
My license renewal date for the state of Florida is February 28, 2027.

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



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

March 26, 2025

O'Regan, Philip

1 of 2



RE: 4558297 - GIEBEIG - LOT 19 CW

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified
Lot/Block: 19 Subdivision: Crosswinds
Address: TBD SW Chesterfield Circle, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T36788360	T21	3/26/25

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788332
4558297	CJ1	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:50 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-XjhnfWP8V?9Rrz87X_oR1DY4Km64mTtZdSfjG6zXNH7

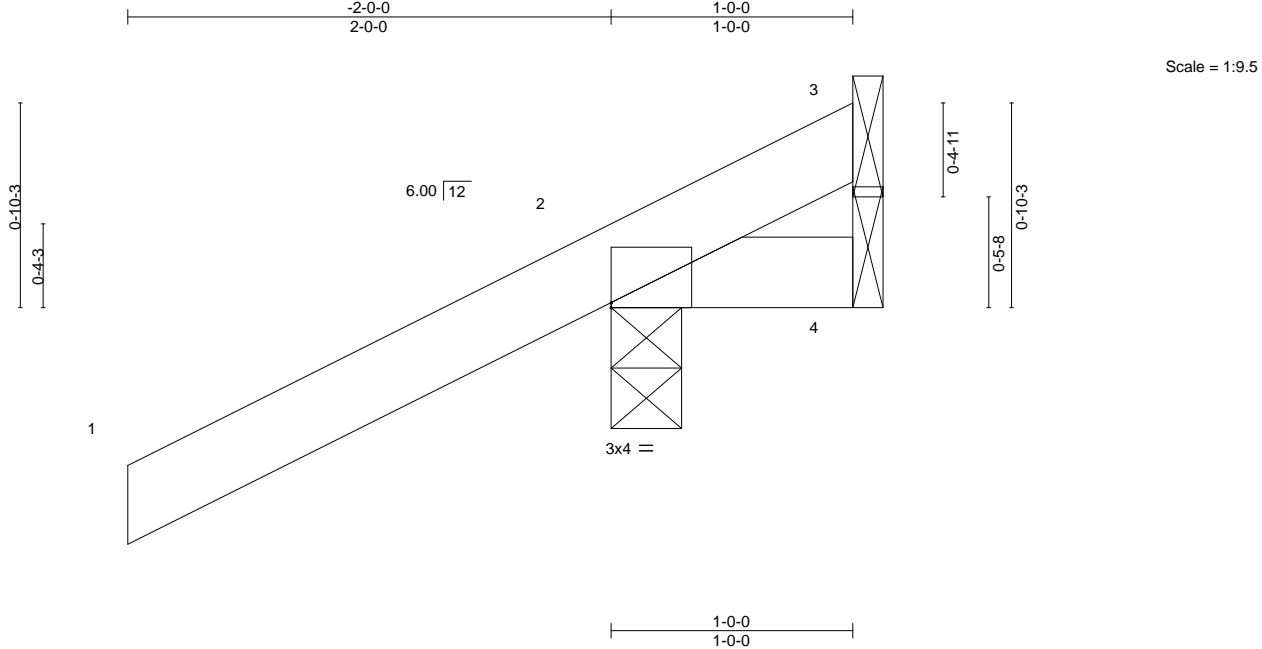


Plate Offsets (X,Y)--		[2:Edge,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30
TCDL 7.0	Lumber DOL	1.25	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP
			DEFL.
			in (loc)
			I/defl
			L/d
			VERT(LL)
			VERT(CT)
			HORZ(CT)
			PLATES
			GRIP
			MT20
			244/190
			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=-26(LC 1), 2=-121(LC 12), 4=-47(LC 1)
Max Grav 3=19(LC 16), 2=254(LC 1), 4=34(LC 16)

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

NOTES- (7)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=121.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

March 26,2025

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788333
4558297	CJ3	JACK-OPEN	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:51 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b?vF9ssQmGJHIS7iJ4hJgaQ5E49QHvW7is6OG0YzXNH6

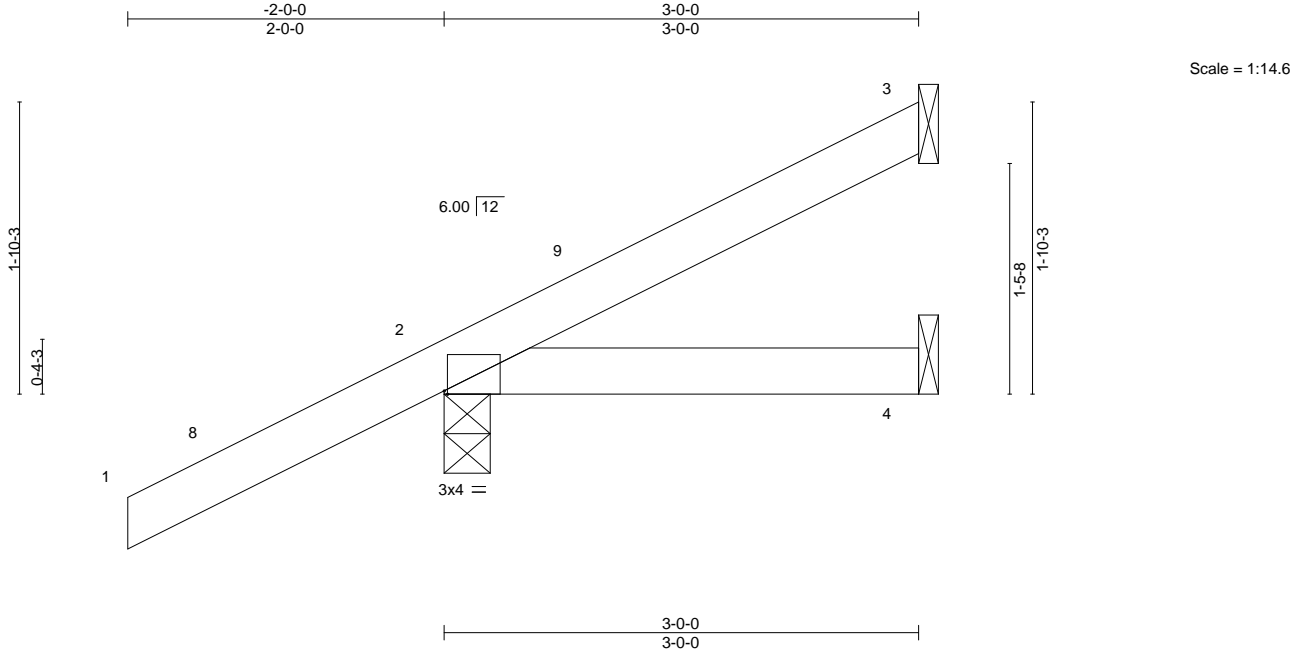


Plate Offsets (X,Y)-- [2:0-0,4,Edge]		2:0-0		3:0-0		3:0-0		3:0-0		3:0-0	
LOADING (psf)	SPACING-	2:0-0	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 13 lb	FT = 20%	

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 3=-35(LC 12), 2=-92(LC 12), 4=-16(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

- NOTES-** (7)
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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 100 lb uplift at joint(s) 3, 2, 4.
 - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

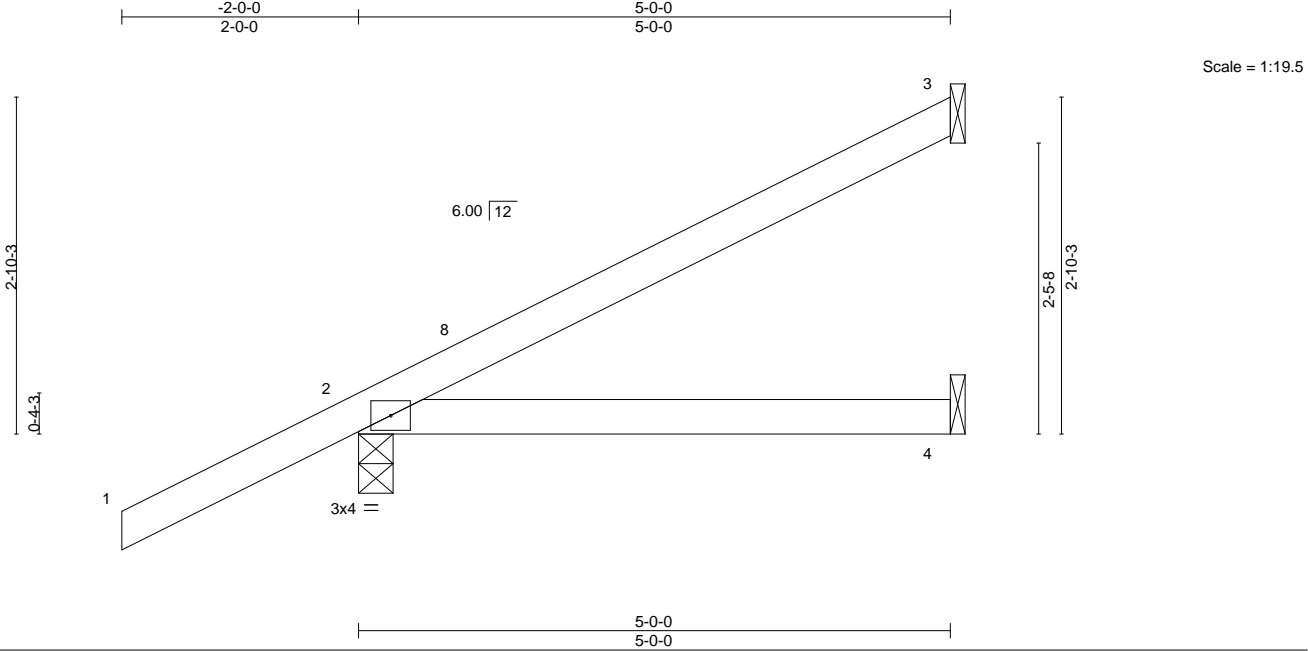
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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 26,2025

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788334
4558297	CJ5	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:51 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-?vF9ssQmGJHIS7iJ4hJgaQ5E49OjVw7is6OG0YzXNH6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.02	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=-98(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-** (7)
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; 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 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 100 lb uplift at joint(s) 3, 2.
 - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 26,2025

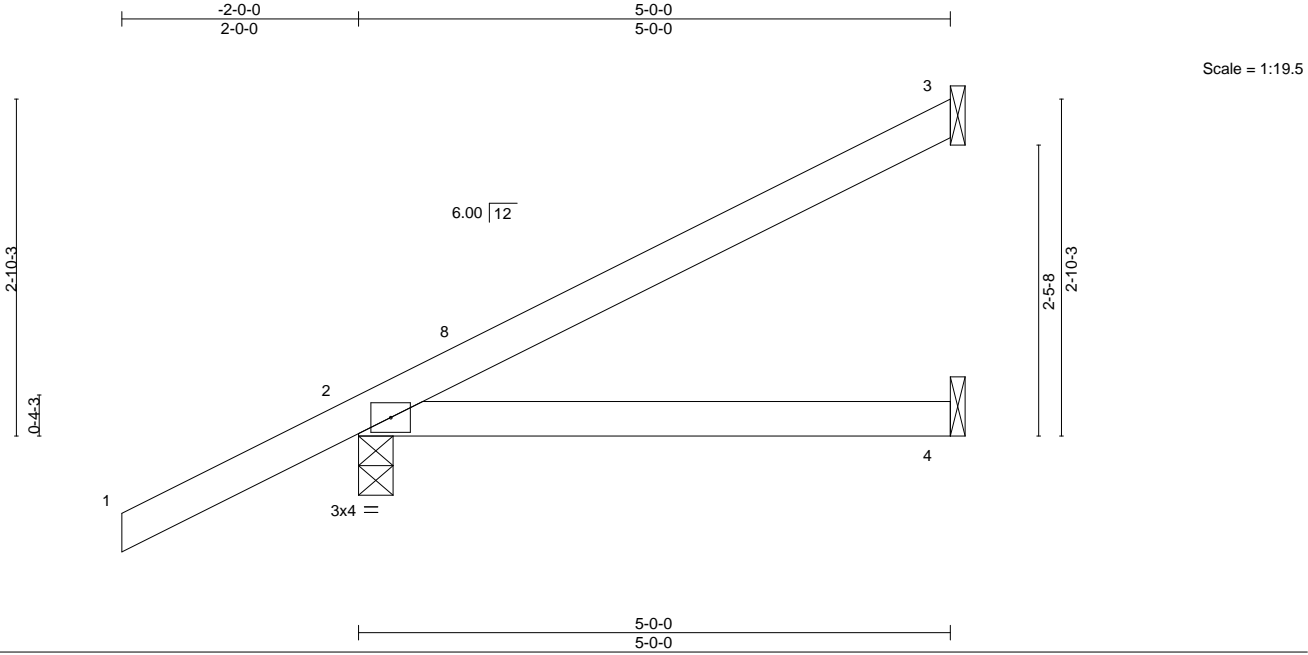
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788335
4558297	EJ5	JACK-OPEN	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:51 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.02	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=-98(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-** (7)
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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 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 100 lb uplift at joint(s) 3, 2.
 - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 26,2025

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788336
4558297	EJ7	JACK	23	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:52 2025 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-T5pY4CRO1cP94HHVePqv7eeK6ZgfENNs4m8pK?zXNH5

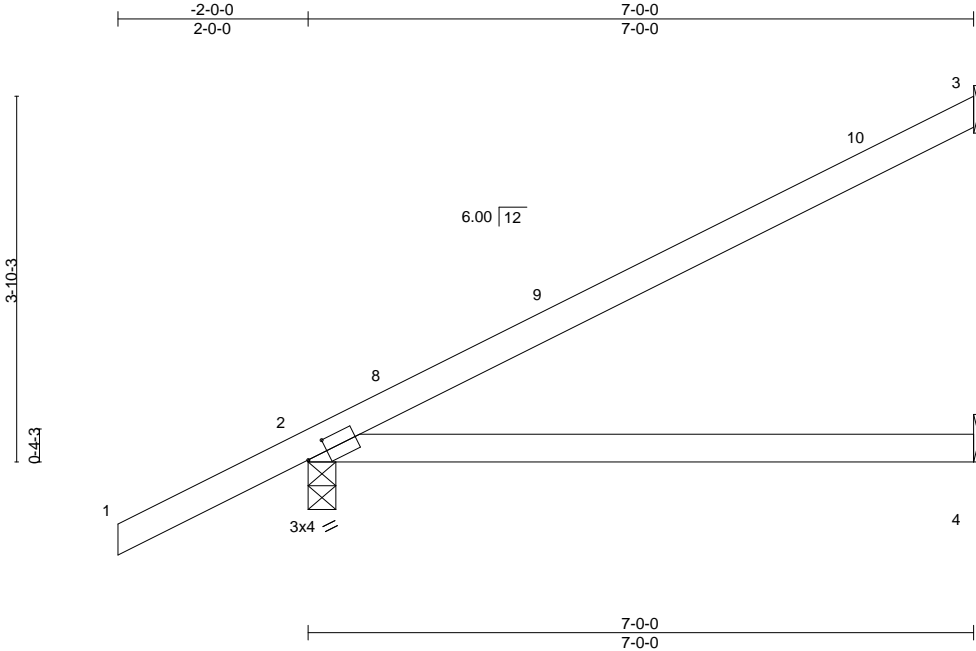


Plate Offsets (X,Y)--		[2:0-2-10,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) 0.10 4-7 >837 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.21 4-7 >395 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 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- (7)
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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
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 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=110.
 - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 26,2025

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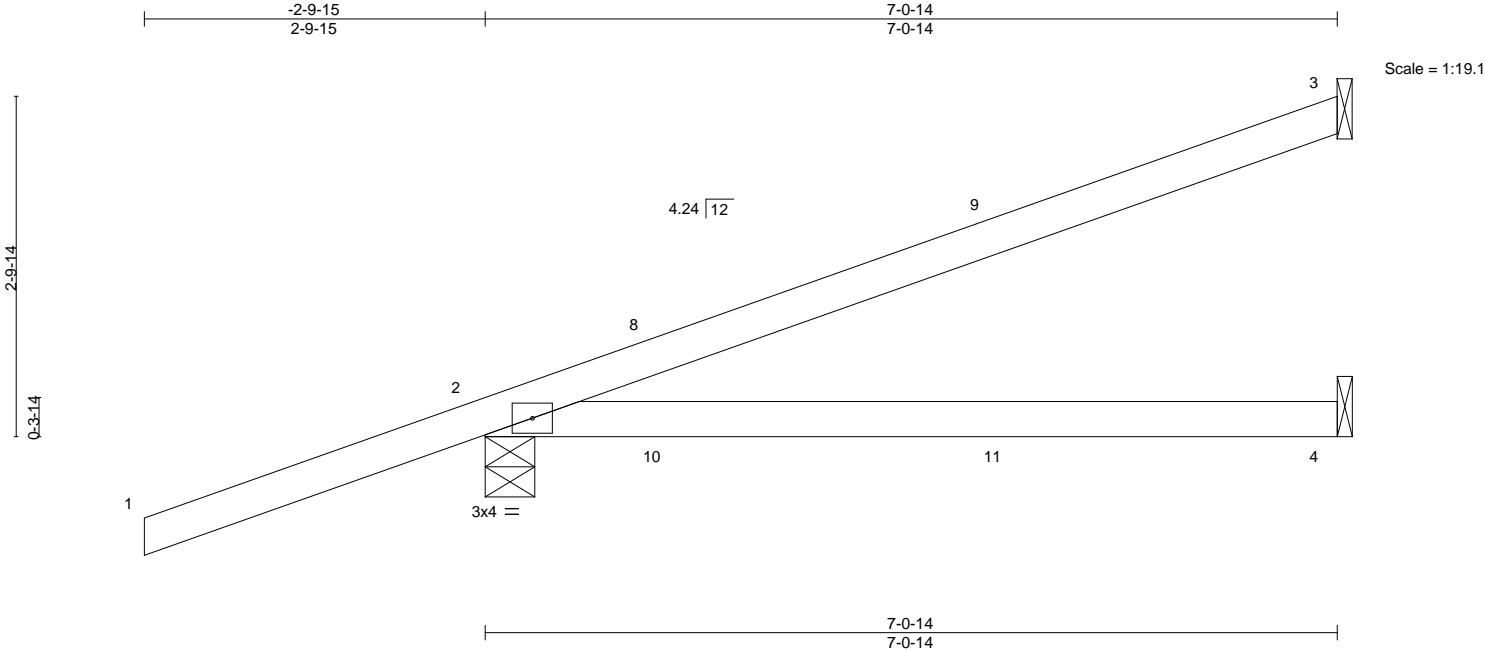
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788337
4558297	HJ7	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:52 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-T5pY4CRO1cP94HHVePqv7eeLoZhoENNs4m8pK?zXNH5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.56	Vert(LL)	-0.10	4-7	>836	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	-0.15	4-7	>565	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00	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=0-4-15, 4=Mechanical
Max Horz 2=147(LC 25)
Max Uplift 3=-90(LC 8), 2=-200(LC 4), 4=-41(LC 5)
Max Grav 3=141(LC 1), 2=347(LC 1), 4=110(LC 3)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=200.
 - 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 1-5-12, 63 lb down and 103 lb up at 1-5-12, and 21 lb down and 40 lb up at 4-3-11, and 21 lb down and 40 lb up at 4-3-11 on top chord, and 52 lb down and 75 lb up at 1-5-12, 52 lb down and 75 lb up at 1-5-12, and 45 lb down and 23 lb up at 4-3-11, and 45 lb down and 23 lb up at 4-3-11 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).
 - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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

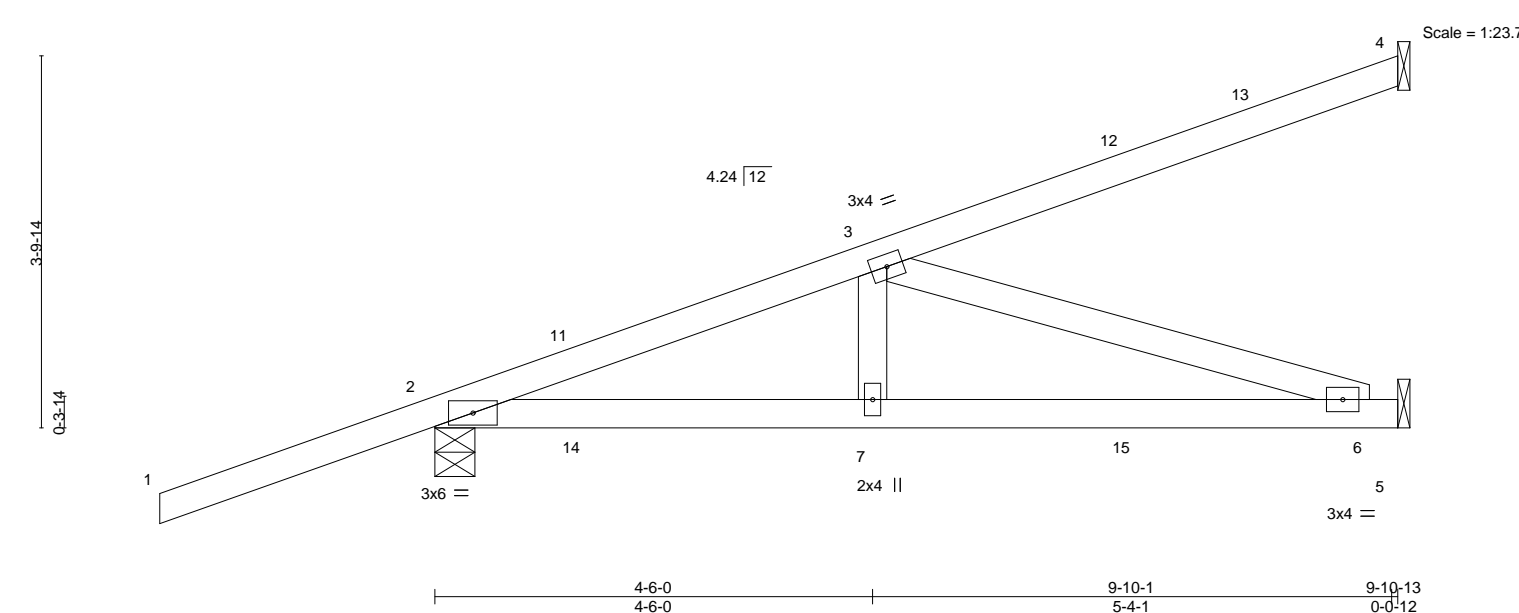
March 26,2025

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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:53 2025 Page 1
ID:9B5QRTzPhUL0yMYqzVn3hhz67b-xiNwHYR0owX0iRsiC6L8frAV2z_CzIq?JQINtRzXNH4
-2-9-15 4-6-0 9-10-13
2-9-15 4-6-0 5-4-13



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL) -0.06 6-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(CT) -0.12 6-7 >948 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 45 lb	FT = 20%

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=180(LC 4)
Max Uplift 4=-90(LC 4), 2=-231(LC 4), 5=-76(LC 8)
Max Grav 4=150(LC 1), 2=466(LC 1), 5=268(LC 3)

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

TOP CHORD	2-3=-661/257
BOT CHORD	2-7=-298/608, 6-7=-298/608
WEBS	3-7=-3/251, 3-6=-638/312

NOTES- (9)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=231.
- 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 1-5-12, 63 lb down and 103 lb up at 1-5-12, 21 lb down and 40 lb up at 4-3-11, 21 lb down and 40 lb up at 4-3-11, and 44 lb down and 83 lb up at 7-1-10, and 44 lb down and 83 lb up at 7-1-10 on top chord, and 26 lb down and 75 lb up at 1-5-12, 26 lb down and 75 lb up at 1-5-12, 19 lb down and 23 lb up at 4-3-11, 19 lb down and 23 lb up at 4-3-11, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 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).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the digital signature is required for verification.

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: 7=4(F=2, R=2) 11=49(F=24, R=24) 12=-63(F=31, R=31) 14=70(F=35, R=35) 15=-49(F=25, R=25)

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

March 26, 2025

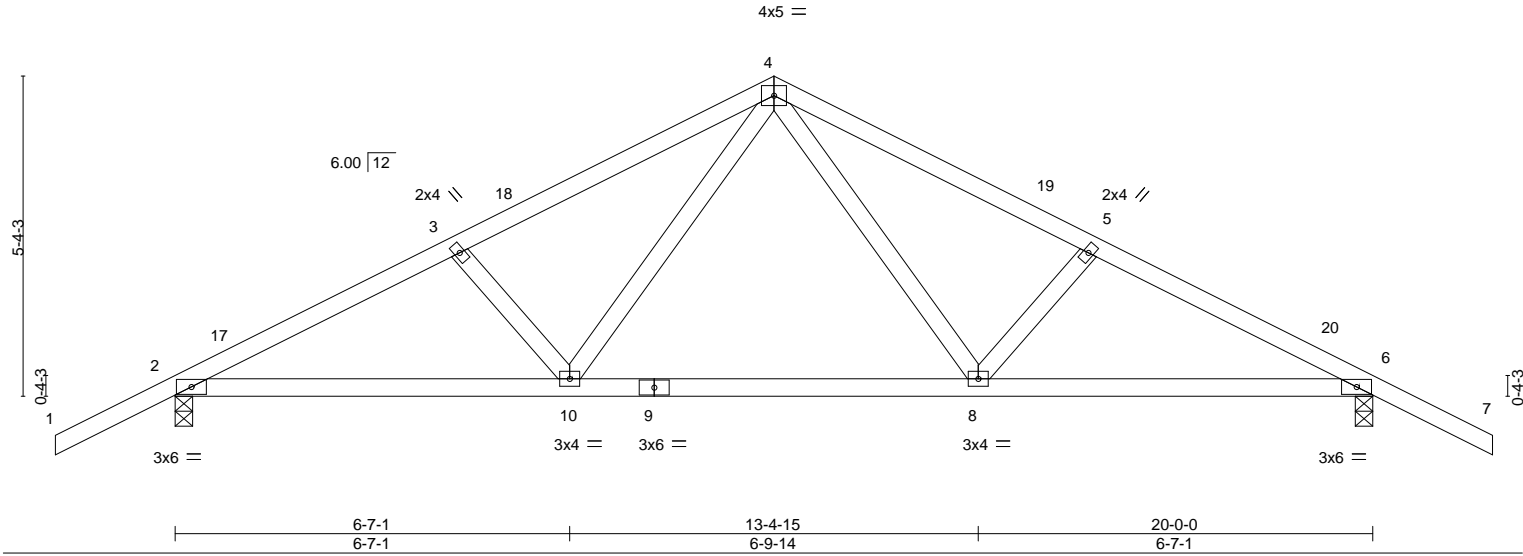
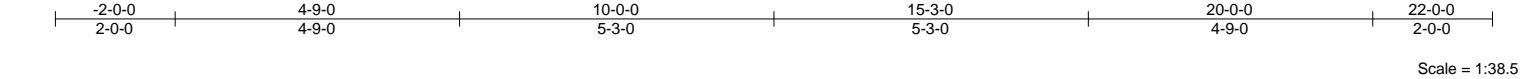
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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Design parameters are provided for the applicability of design parameters and verify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

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788339
4558297	T03	Common	9	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:53 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-xINwHYR0owX0iRsiC6L8frAYQzvzmc?JQtNtRzXNH4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.95	Vert(LL) -0.17 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.26	Vert(CT) -0.34 8-10 >706 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=100(LC 12)
Max Uplift 2=-308(LC 12), 6=-308(LC 13)
Max Grav 2=1053(LC 1), 6=1053(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1772/482, 3-4=-1621/461, 4-5=-1621/466, 5-6=-1772/482
BOT CHORD 2-10=-442/1541, 8-10=-207/1017, 6-8=-359/1541
WEBS 4-8=-213/676, 4-10=-213/676

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=308, 6=308.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 8-10=-80(F=-60), 8-14=-20

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Date:

March 26,2025

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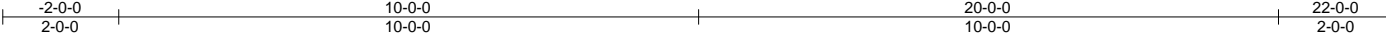
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788340
4558297	T03G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:54 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-PUxIUuSZEfJbRumpsNC3jm8NSOiG68Y4dwPtzXNH3



Scale = 1:39.7

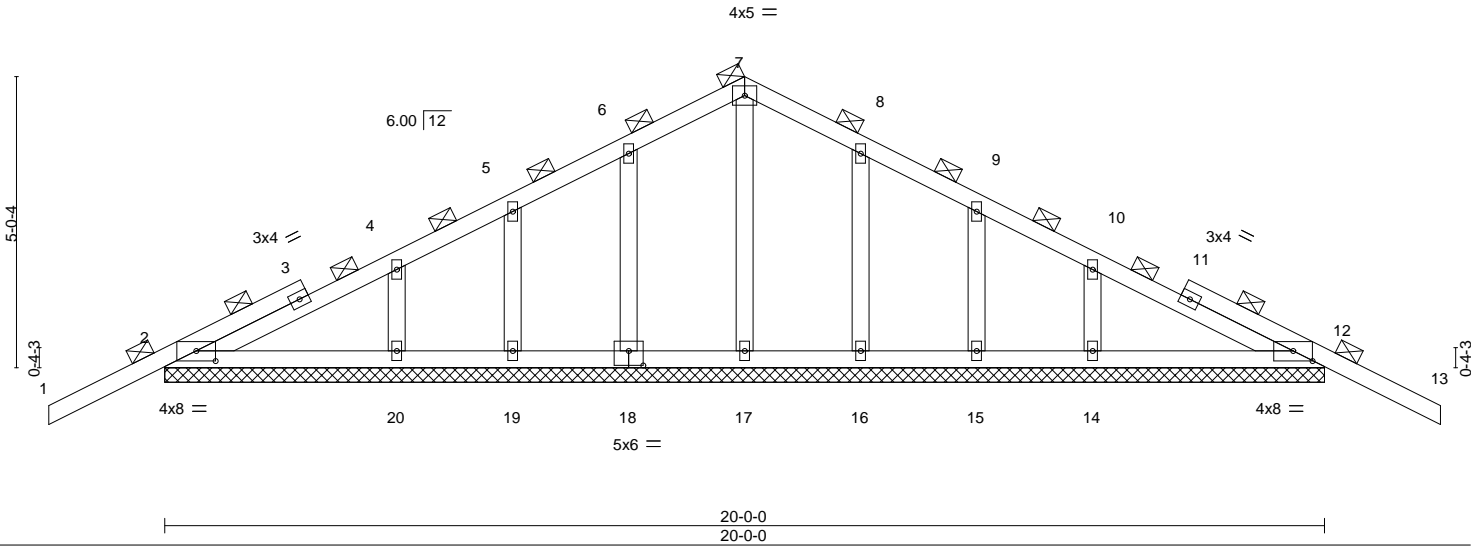


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [18:0-3-0,0-3-0]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							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-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

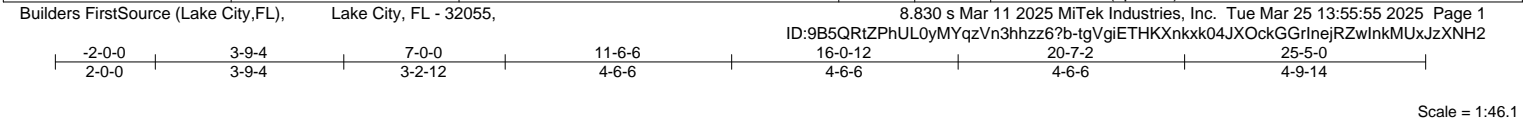
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788341
4558297	T04	Half Hip Girder	1	1	Job Reference (optional)	



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788341
4558297	T04	Half Hip Girder	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:55 2025 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-tgVgiETHKXnkk04JXOckGGrlnejRZWlnkMUxJzXNH2

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 9=-127(F) 10=-69(F) 14=-287(F) 12=-61(F) 11=-61(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 23=-106(F) 24=-61(F) 25=-61(F) 26=-61(F) 27=-61(F) 28=-61(F) 29=-61(F)

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

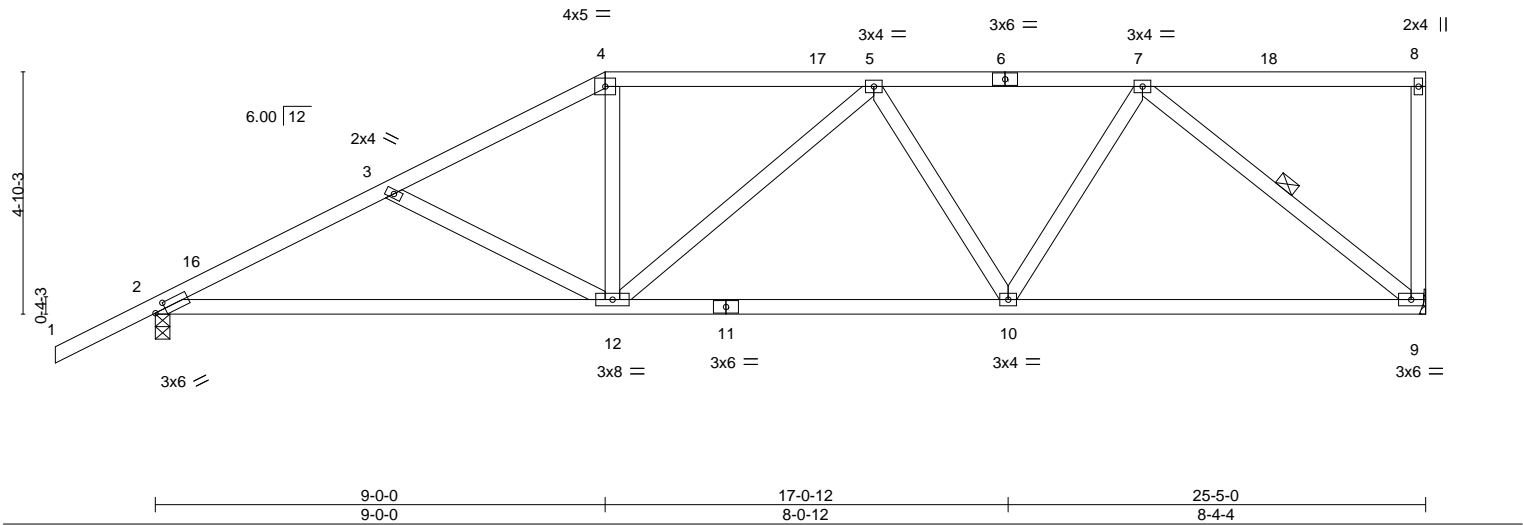
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788342
4558297	T05	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:56 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Lt32vaUv5rvbZubHtEvrHUo37A_yA5wR?O61TmzXNH1
2-0-0 4-9-4 9-0-0 14-4-8 19-9-0 25-5-0
2-0-0 4-9-4 4-2-12 5-4-8 5-4-8 5-8-0

Scale = 1:46.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.14 12-15 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29 12-15 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.05 9 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 136 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-10-14 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 7-9

REACTIONS.	
(size)	9=Mechanical, 2=0-3-8
Max Horz	2=207(LC 12)
Max Uplift	9=291(LC 9), 2=319(LC 12)
Max Grav	9=931(LC 1), 2=1047(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1668/492, 3-4=-1406/399, 4-5=-1217/392, 5-7=-1143/330
BOT CHORD	2-12=-556/1467, 10-12=-397/1286, 9-10=-293/901
WEBS	3-12=-294/186, 4-12=-45/408, 5-10=-281/187, 7-10=-127/490, 7-9=-1140/376

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=291, 2=319.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

March 26,2025

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

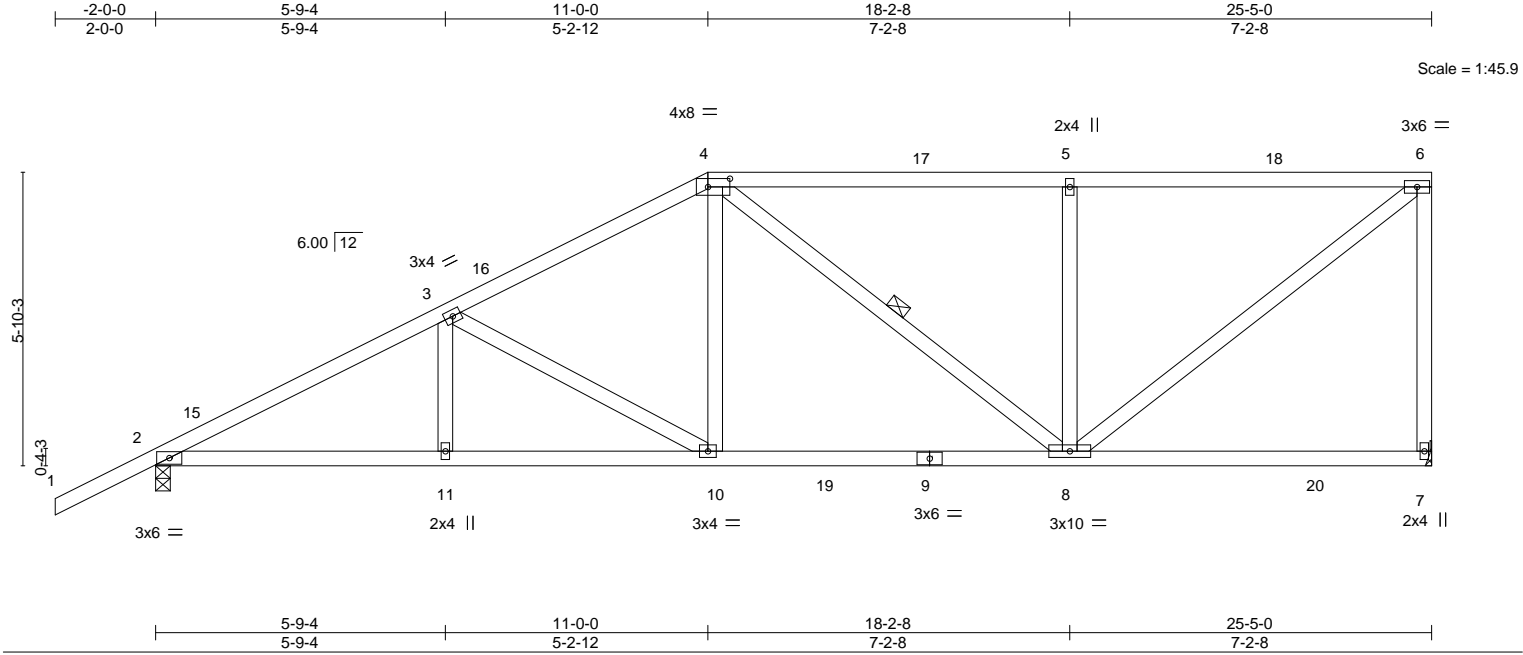
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788343
4558297	T06	Half Hip	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:56 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Lt32vaUv5rvbZubHtEvrHUo?RA0_A2ER?O61TmzXNH1



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788344
4558297	T07	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:57 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-p3cR7vUXs91SA2ATryQ4qhLA1aJnvX7bE2ra0CzXNH0 25-5-0

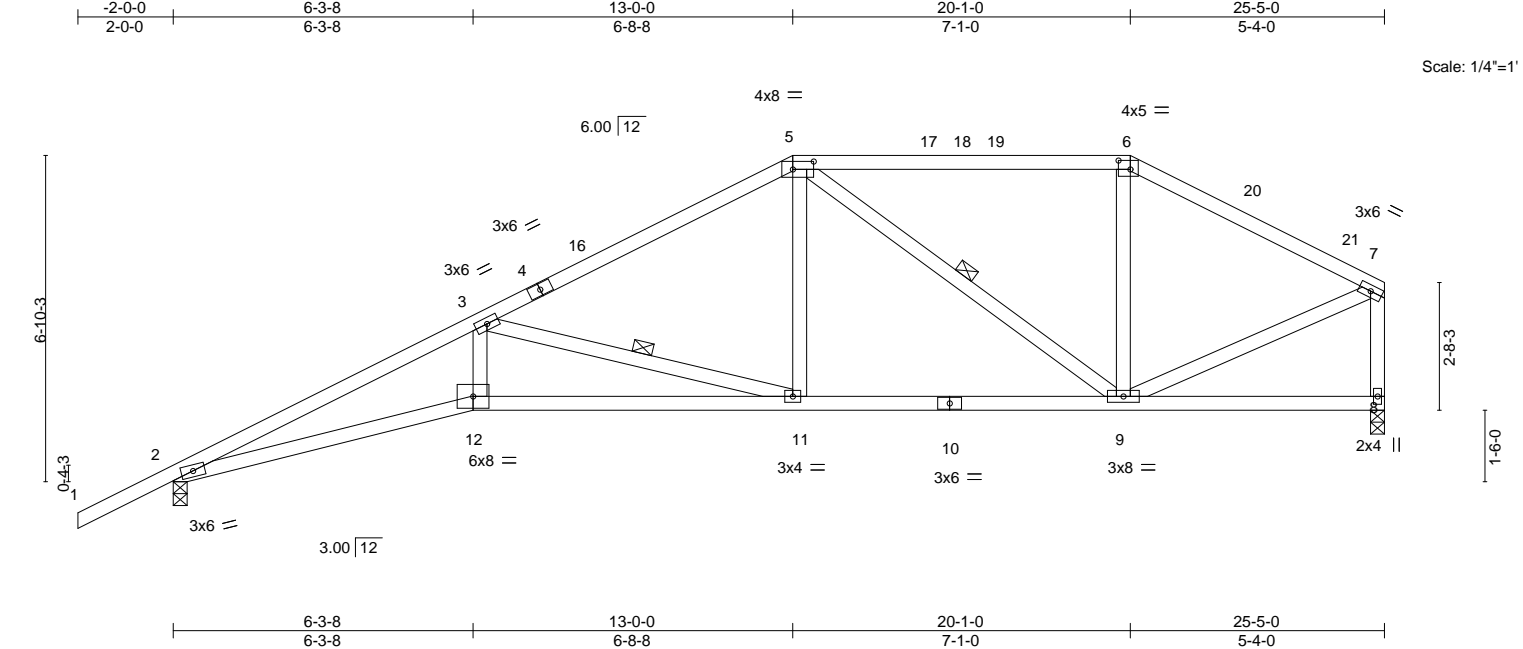


Plate Offsets (X,Y)--		[5:0-5-4,0-2-0], [6:0-3-0,0-2-4]									
LOADING	(psf)	SPACING-		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.18 11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.36 11-12	>842	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.15 8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 133 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-10 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-11-1 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-11, 5-9

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=227(LC 12)
Max Uplift	2=311(LC 12), 8=213(LC 13)
Max Grav	2=1047(LC 1), 8=931(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3017/953, 3-5=-1412/406, 5-6=-804/239, 6-7=-955/243, 7-8=-884/224
BOT CHORD	2-12=-1004/2727, 11-12=-954/2577, 9-11=-359/1207
WEBS	3-12=-205/756, 3-11=-1432/619, 5-11=-115/562, 5-9=-541/218, 7-9=-193/848

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=311, 8=213.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

March 26,2025

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:57 2025 Page 1
ID:9B5QRIZPhUL0yMYqzVn3hhzz6?b-p3cR7vUXs91SA2ATRyQ4qhL9aHwVTTbE2ra0CzXNH0



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-14 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-9-2 oc bracing.
WEBS	2x4 SP No.3		

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

TOP CHORD	1-2=3043/945, 2-3=3018/1050, 3-4=1142/338, 4-5=832/281, 5-6=1015/283, 6-7=863/232
BOT CHORD	1-11=1013/2753, 9-11=600/1651, 8-9=266/971
WEBS	3-11=551/1443, 3-9=817/398, 4-9=168/579, 4-8=397/147, 6-8=196/793

NOTES- (9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-3-15, Zone1 22-3-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=255, 7=212.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 26.2025



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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788346
4558297	T09	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:58 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-IFApKFV9dS9JoClf?fxJMvuHN_mQetvkTib8YezXNH?
-2-0-0 3-6-0 7-0-0 12-4-0 18-6-7 24-9-0 30-1-0
2-0-0 3-6-0 3-6-0 5-4-0 6-2-7 6-2-9 5-4-0

Scale = 1:54.0

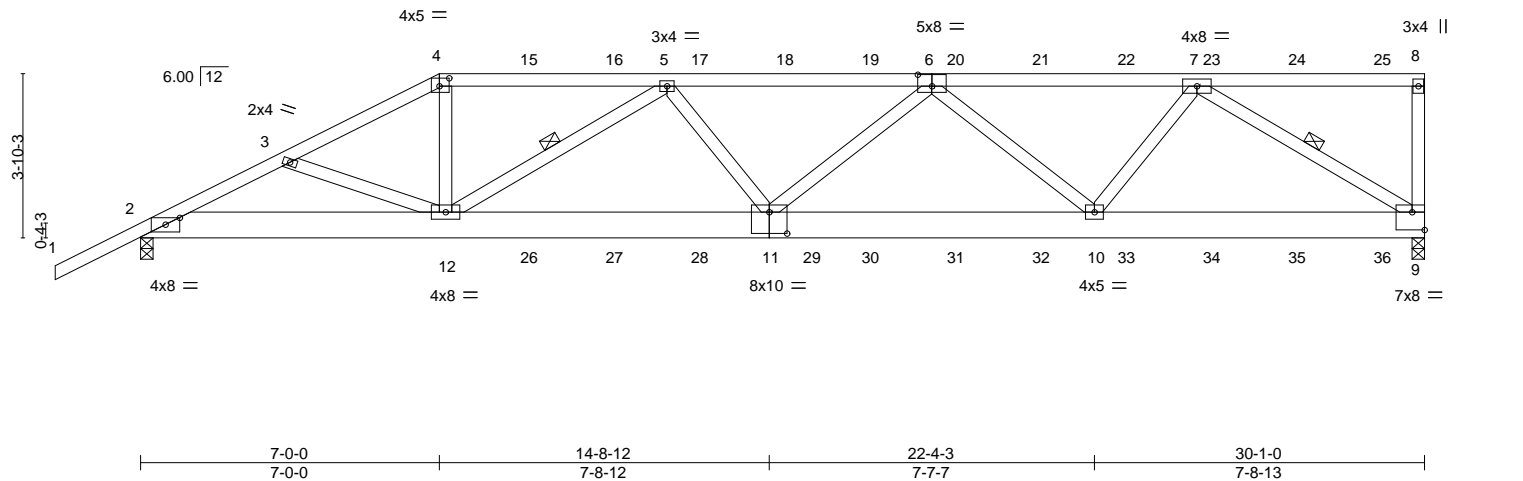


Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [4:0-2-12,0-2-4], [6:0-4-0,0-3-4], [9:Edge,0-5-0], [11:0-5-0,0-6-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.93	in (loc) l/defl L/d	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.29	Vert(LL) -0.21 11 >999 240	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.89	Vert(CT) -0.39 11 >910 180	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Horz(CT) 0.07 9 n/a n/a	
					Weight: 200 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 1-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12, 7-9

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=168(LC 8)
Max Uplift 9=828(LC 5), 2=700(LC 8)
Max Grav 9=2497(LC 1), 2=2194(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4256/1332, 3-4=-4121/1267, 4-5=-3720/1179, 5-6=-5107/1552, 6-7=-3884/1160, 8-9=-377/223
BOT CHORD 2-12=-1276/3763, 11-12=-1609/4983, 10-11=-1579/4872, 9-10=-987/2984
WEBS 4-12=-332/1421, 5-12=-1554/586, 5-11=0/397, 6-11=-12/450, 6-10=-1325/571, 7-10=-311/1560, 7-9=-3513/1159

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; 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) 9=828, 2=700.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 17-0-12, 106 lb down and 96 lb up at 19-0-12, 106 lb down and 100 lb up at 21-0-12, 106 lb down and 100 lb up at 23-0-12, 106 lb down and 100 lb up at 25-0-12, 106 lb down and 100 lb up at 27-0-12, and 109 lb down and 100 lb up at 29-0-12, and 135 lb down and 98 lb up at 29-11-4 on top chord, and 296 lb down and 103 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, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 87 lb down at 29-0-12 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).
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 26,2025

Continued on page 2

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788346
4558297	T09	Half Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 8=-135(B) 12=-287(B) 15=-106(B) 16=-106(B) 17=-106(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-109(B) 26=-61(B) 27=-61(B) 28=-61(B) 29=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 36=-62(B)

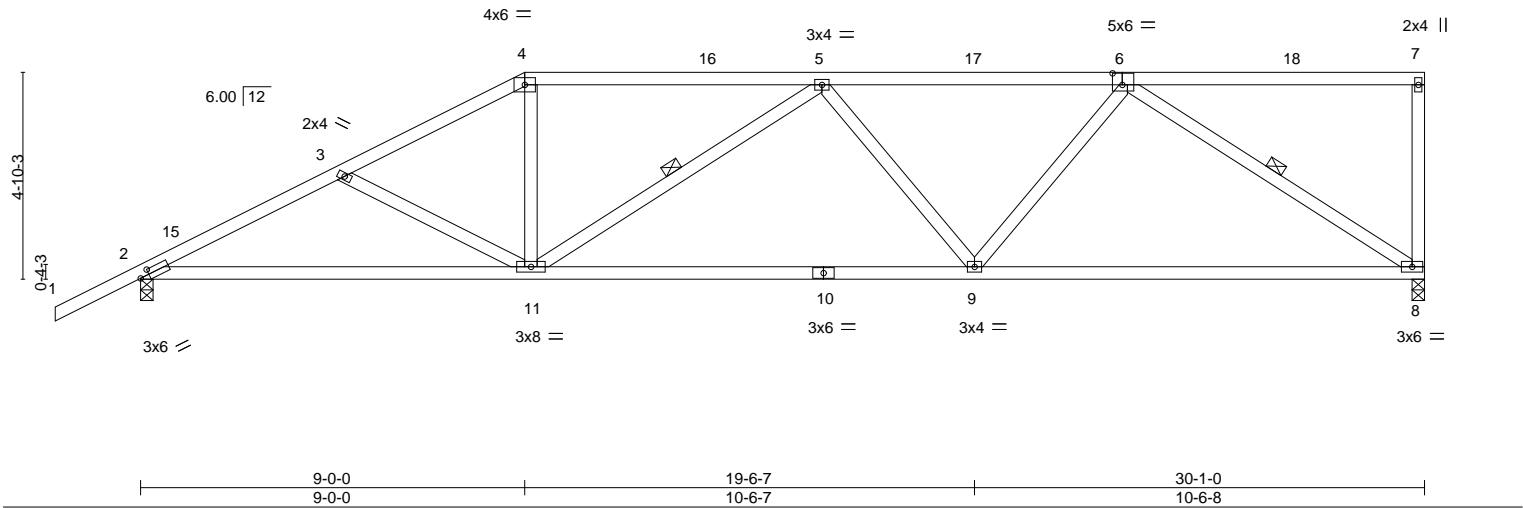
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788347
4558297	T10	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:59 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-mSkBYbWnOmH9QMKrYNSYv6QXcOy?NO3uhMKh45zXNH_
-2-0-0 4-9-5 9-0-0 15-11-9 23-1-7 30-1-0
2-0-0 4-9-5 4-2-11 6-11-9 7-1-14 6-11-9
Scale = 1:54.0



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788349
4558297	T12	SPECIAL	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:00 2025 Page 1
ID:9B5QRiZPhUL0yMYqzVn3hhzz6?b-EelZlxXP84P01Wu264znRKzgboJP6pJ1w04EbXzXNGz

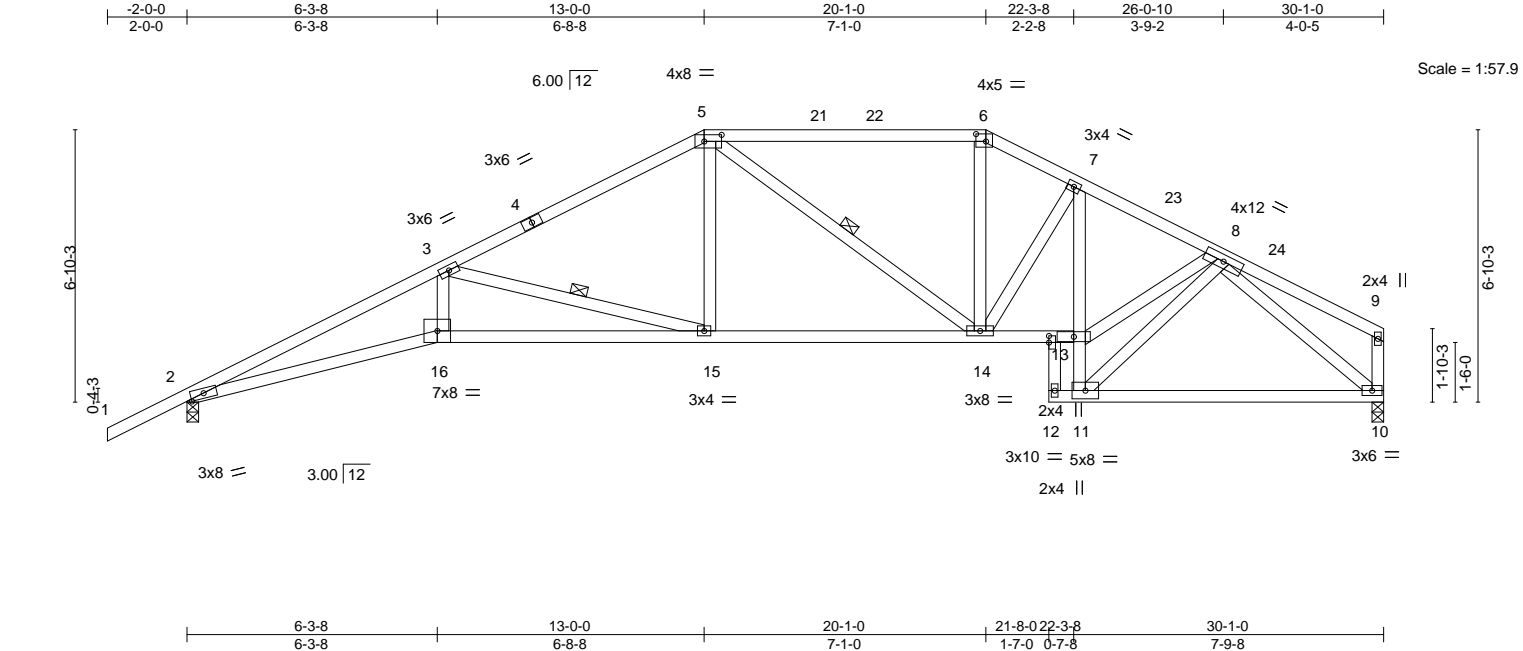


Plate Offsets (X,Y)--		[2:0-4-0,0-1-9], [5:0-5-4,0-2-0], [6:0-3-0,0-2-4], [17:0-2-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76
TCDL 7.0	Lumber DOL	1.25	BC 0.90
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.25 15-16 >999 240
			Vert(CT) -0.50 15-16 >715 180
			Horz(CT) 0.29 10 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 175 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-1-9 oc bracing. Except:
7-11: 2x4 SP No.3	10-0-0 oc bracing: 11-13
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-15, 5-14
9-10: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=176(LC 12)
Max Uplift 2=319(LC 12), 10=236(LC 13)
Max Grav 2=1223(LC 1), 10=1115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3735/938, 3-5=-1918/444, 5-6=-1497/399, 6-7=-1672/422, 7-8=-1806/428
BOT CHORD 2-16=-938/3384, 15-16=-891/3203, 14-15=-310/1661, 13-14=-285/1588, 11-13=-201/995,
10-11=-228/1066
WEBS 3-16=-189/906, 3-15=-1611/604, 5-15=-110/602, 5-14=-313/128, 6-14=-86/484,
8-13=-332/1630, 8-11=-1265/324, 8-10=-1365/298

- NOTES-** (9)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=319, 10=236.
 - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 26,2025

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

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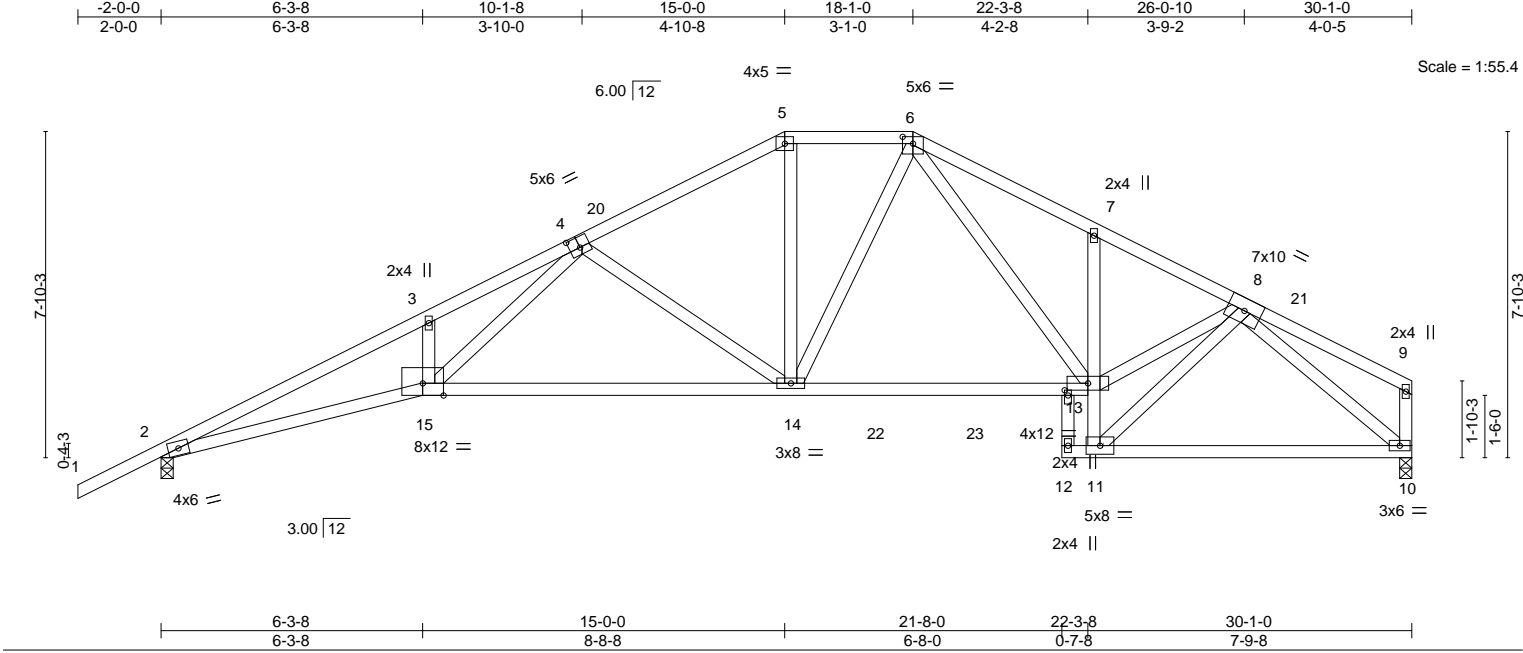
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788350
4558297	T13	SPECIAL	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:00 2025 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-EelZlxXP84P01Wu264znRKzi?oH86pf1w04EbXzXNGz



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.34 14-15 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.66 14-15 >541 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.29 10 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 178 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-4-5 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
WEBS	2x4 SP No.3 *Except*		2-2-0 oc bracing: 11-13
	9-10: 2x4 SP No.2		

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=193(LC 12)
Max Uplift 2=333(LC 12), 10=253(LC 13)
Max Grav 2=1294(LC 2), 10=1221(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4014/968, 3-4=-3971/1074, 4-5=-1785/398, 5-6=-1560/391, 6-7=-2087/508, 7-8=-2033/425
BOT CHORD 2-15=-977/3658, 14-15=-566/2242, 13-14=-221/1445, 11-13=-189/1135, 10-11=-225/1146
WEBS 4-15=-542/1794, 4-14=-846/373, 5-14=-93/610, 6-14=-90/347, 6-13=-248/650, 8-13=-341/1862, 8-11=-1371/309, 8-10=-1445/296

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-6-1, Zone1 22-6-1 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333, 10=253.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 26,2025

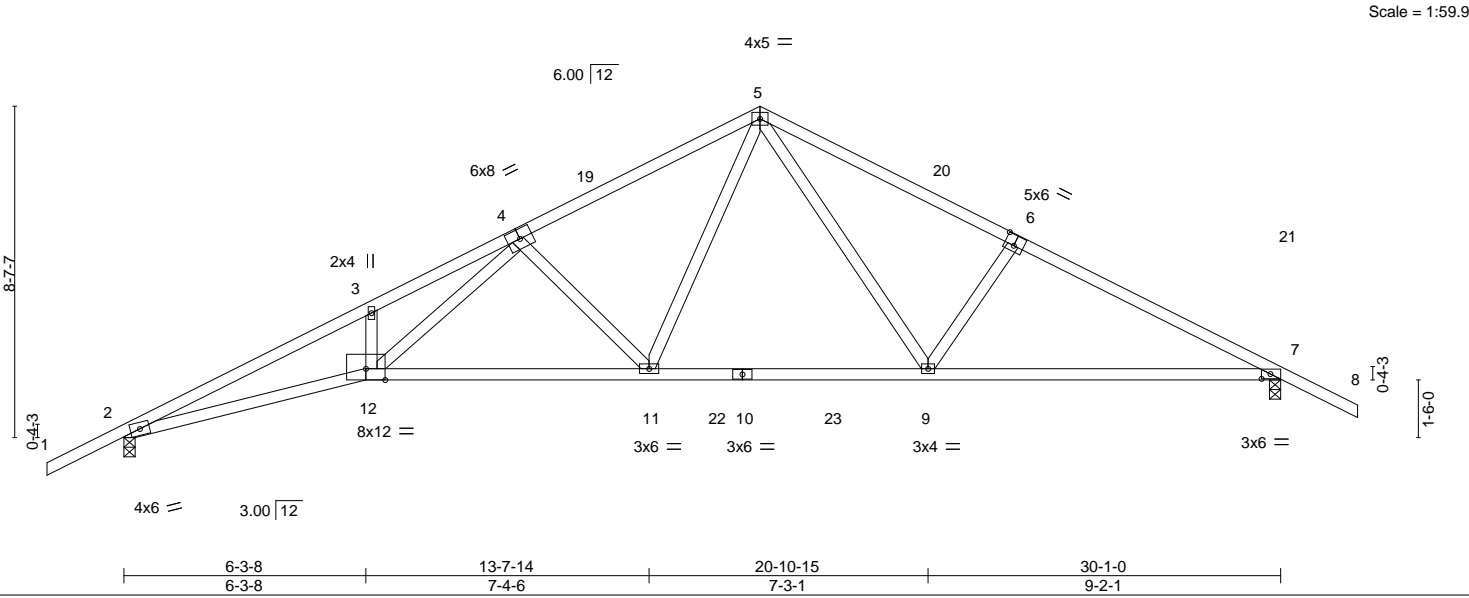
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788352
4558297	T15	SPECIAL	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:02 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-A0QKAdYgghfkHp2QEV0FXI220b_0akIKOKZLgPzXNGx



LOADING (psf)	SPACING-		CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.64	Vert(LL) -0.31	11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.95	Vert(CT) -0.59	11-12	>616	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.68	Horz(CT) 0.22	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 147 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=188(LC 12)
	Max Uplift 2=-344(LC 12), 7=-320(LC 13)
	Max Grav 2=1296(LC 2), 7=1302(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4006/1007, 3-4=-3960/1107, 4-5=-1968/496, 5-6=-1984/457, 6-7=-2137/463
BOT CHORD	2-12=-1007/3651, 11-12=-583/2232, 9-11=-227/1334, 7-9=-320/1880
WEBS	4-12=-549/1778, 4-11=-778/377, 5-11=-251/941, 5-9=-206/702, 6-9=-376/260

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 32-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344, 7=320.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 26,2025

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788353
4558297	T16	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:02 2025 Page 1
6-3-8	10-6-0	ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-A0QKAdYgghfkHp2QEV0FXI21?bzHakuKOKZLgPzXNGx
6-3-8	4-2-8	23-1-7
	6-0-8	6-6-15
		30-1-0
		6-11-9
		32-1-0
		2-0-0

Scale = 1:58.6

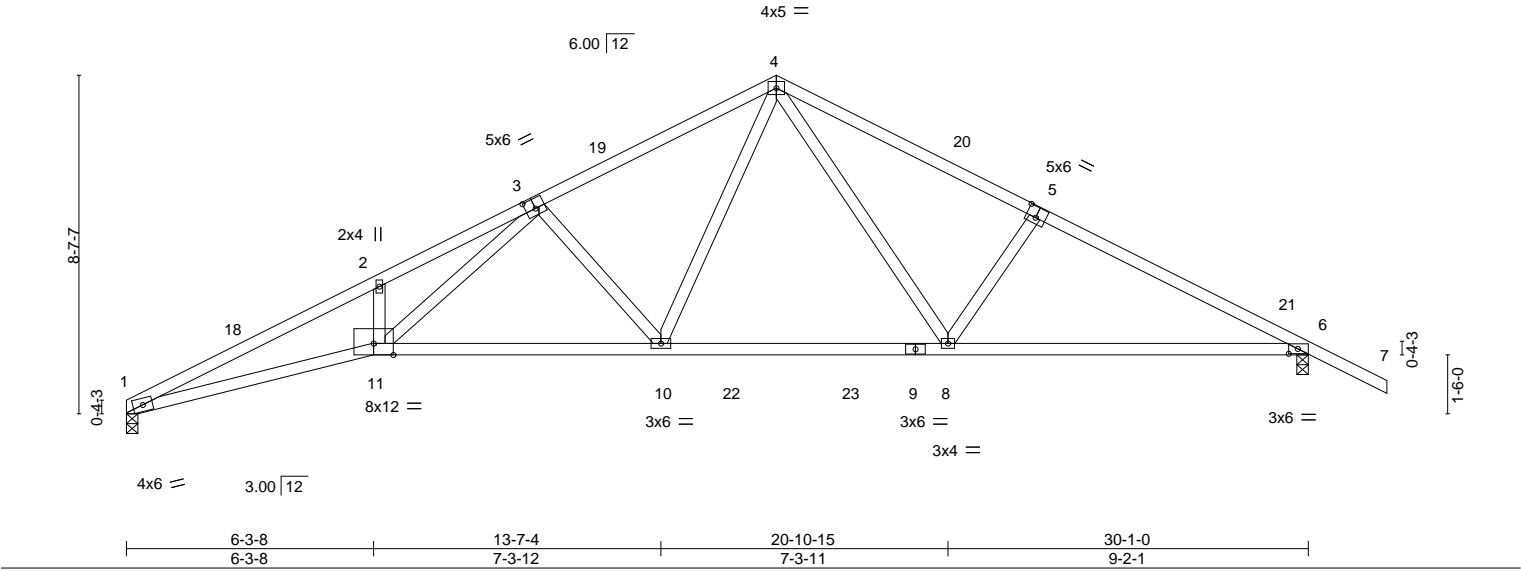
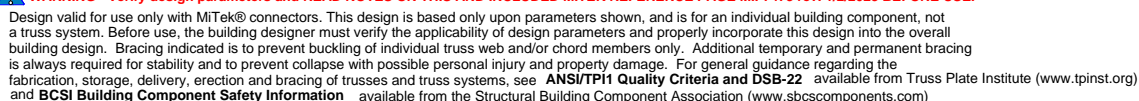


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-4], [6:0-2-12,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.31	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.58	10-11	>618	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.22	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 144 lb FT = 20%		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:03 2025 Page 1
 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-eD_inZiR?nbuzddnCXu3yDh?MTJ99Tc_lvCszXNGw
 6-3-8 10-6-0 16-6-8 21-0-0 25-5-0
 6-3-8 4-2-8 6-0-8 4-5-8 4-5-0

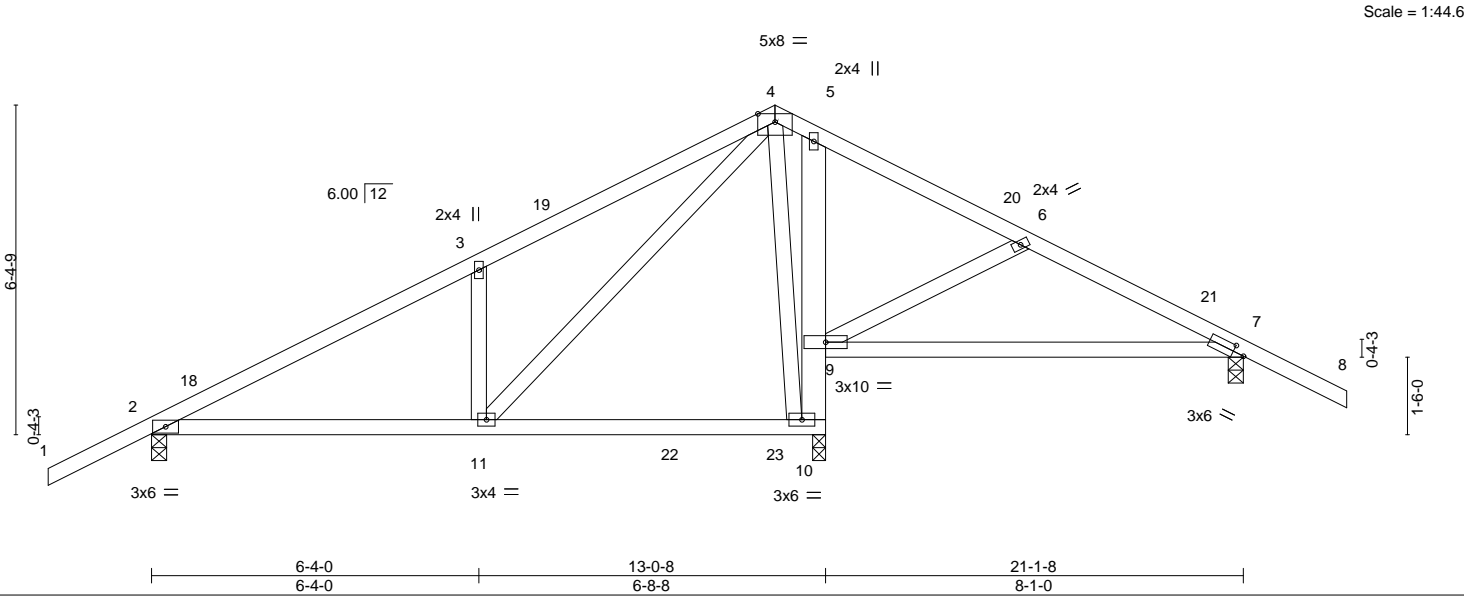


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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788355
4558297	T18	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:03 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-eD_iNzZIR?nbuzddnC XU3ybG4?R3JFuTc_ivCszXNGw



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.10 9-17 >983 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.21 9-17 >493 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01 7 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 118 lb		FT = 20%	

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8, 10=0-3-0
Max Horz 2=150(LC 12)
Max Uplift 2=-186(LC 12), 7=-175(LC 13), 10=-185(LC 12)
Max Grav 2=555(LC 27), 7=376(LC 26), 10=972(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-603/163, 3-4=-621/299
BOT CHORD 2-11=-192/514, 9-10=-401/237
WEBS 3-11=-356/256, 4-11=-310/771, 4-10=-500/151, 6-9=-284/185

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 23-1-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=186, 7=175, 10=185.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788356
4558297	T18G	Roof Special Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:04 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-6PX4bJawClvSW7CpLw2jcA8T1Prj2lSdre2SllzXNGv

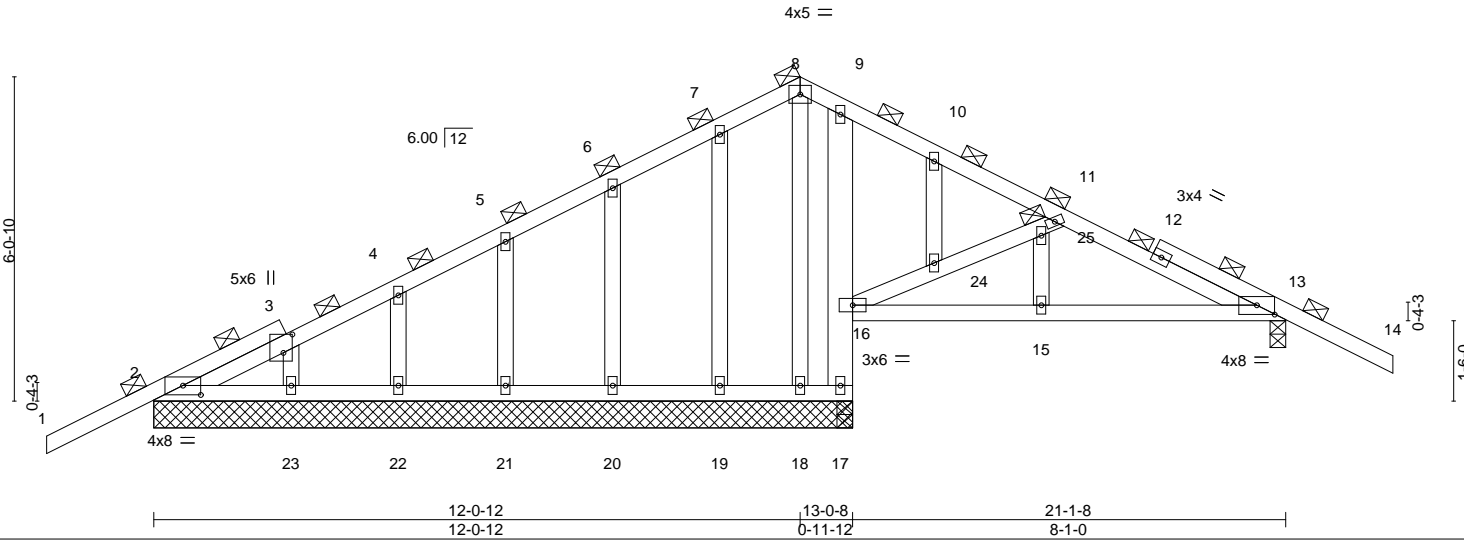


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [3:0-4-2,0-2-0], [13:0-4-0,0-2-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28
TCDL 7.0	Lumber DOL	1.25	BC 0.17
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	0.02 13-15	>999	240
Vert(CT)	-0.03 13-15	>999	180
Horz(CT)	0.01 13	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 132 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 *Except	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
9-17: 2x6 SP No.2	10-0-0 oc bracing: 15-16,13-15.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 8, 25
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-0-8 except (jt=length) 13=0-3-8.
(lb) - Max Horz 2=145(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 23 except 13=178(LC 13), 17=124(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18 except 13=399(LC 1), 17=353(LC 1), 17=353(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-13=-342/308
BOT CHORD 16-17=-381/301, 15-16=-199/272, 13-15=-199/272
WEBS 16-24=-355/311, 24-25=-348/305, 11-25=-318/276

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 23 except (jt=lb) 13=178, 17=124.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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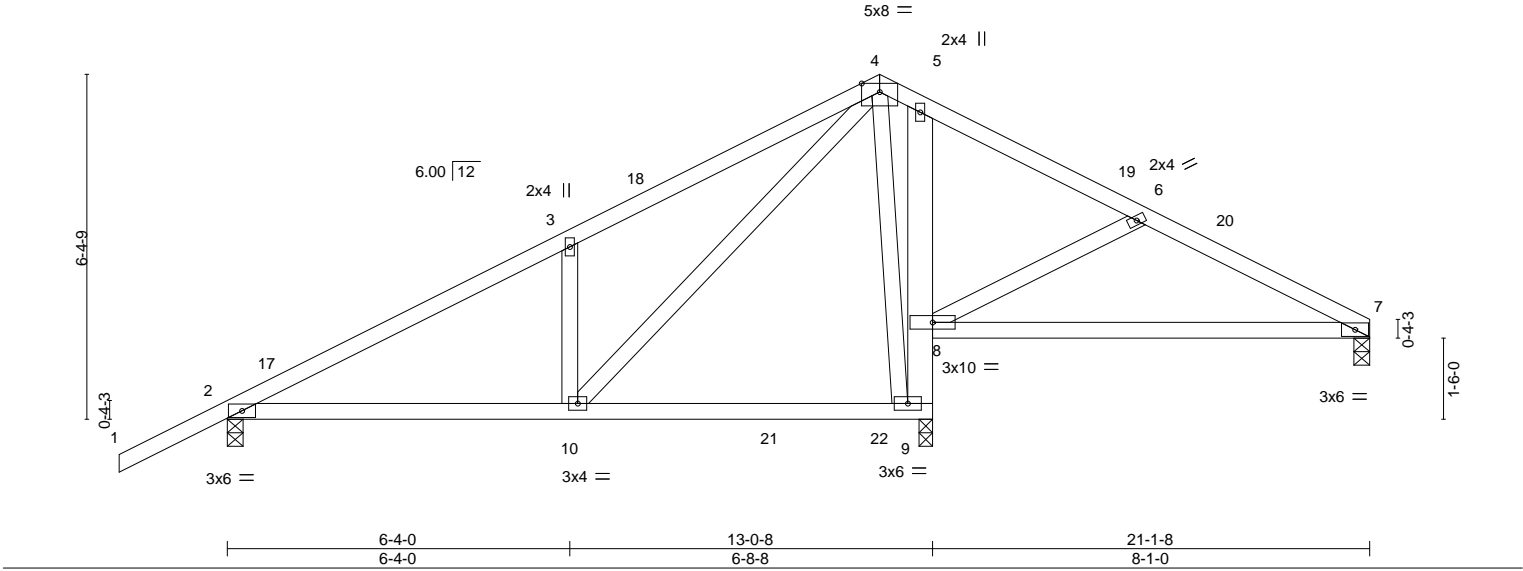
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788357
4558297	T19	Roof Special	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:04 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-6PX4bJawClvSW7CpLw2jcA8QGpma2i8dre2SllzXNGv
-2-0-0 6-4-0 12-0-12 13-0-8 16-9-12 21-1-8
2-0-0 6-4-0 5-8-12 0-11-12 3-9-4 4-3-12

Scale = 1:42.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	Vert(LL) 0.11	8-13	>948	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.21	8-13	>479	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 114 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 5-9: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size)
	7=0-3-8, 2=0-3-8, 9=0-3-0
	Max Horz 2=167(LC 12)
	Max Uplift 7=-108(LC 8), 2=-179(LC 12), 9=-201(LC 12)
	Max Grav 7=266(LC 28), 2=554(LC 27), 9=986(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-602/149, 3-4=-620/285
BOT CHORD	2-10=-195/508, 8-9=-407/238
WEBS	3-10=-356/256, 4-10=-310/771, 4-9=-485/166, 6-8=-316/205

- NOTES-** (7)
- 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=18ft; 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 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 21-1-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108, 2=179, 9=201.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 26,2025

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

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

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788358
4558297	T19A	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:05 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ab5SofbYzc2J8Hn?vdZy8NggqAxn3Im4In?HkzXNGu

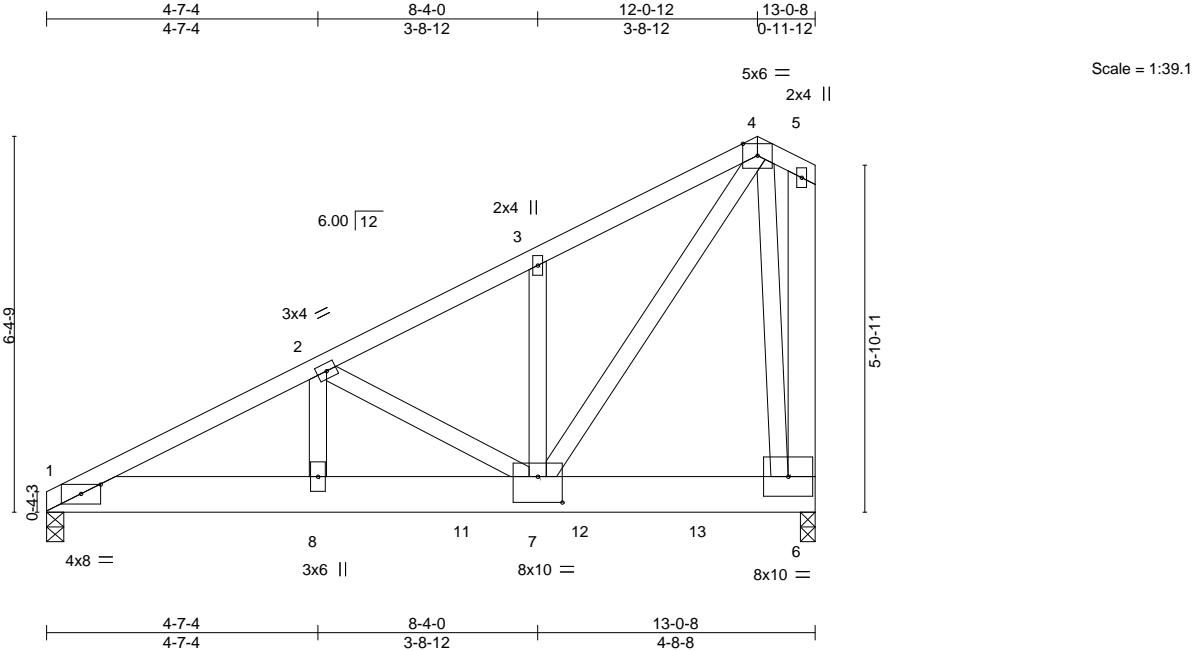


Plate Offsets (X,Y)--		[1:0-4-0,0-1-15], [7:0-5-0,0-5-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 212 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-6: 2x6 SP No.2	

REACTIONS.	(size) 1=0-3-8, 6=0-3-0
	Max Horz 1=222(LC 8)
	Max Uplift 1=531(LC 8), 6=1012(LC 8)
	Max Grav 1=1802(LC 1), 6=3024(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-3792/1126, 2-3=-2886/856, 3-4=-2888/940
BOT CHORD	1-8=-1171/3352, 7-8=-1171/3352, 6-7=-118/336
WEBS	2-8=-195/693, 2-7=-939/360, 4-7=-1392/4134, 4-6=-2166/768

- NOTES-** (10)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=531, 6=1012.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2067 lb down and 677 lb up at 7-0-12, and 911 lb down and 311 lb up at 9-0-12, and 1022 lb down and 303 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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Date:

March 26,2025

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788358
4558297	T19A	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:05 2025 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ab5SofbYzc2J8Hn?vdZy8NggqpAxn3Im4In?HkzXNGu

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 1-6=-20

Concentrated Loads (lb)

Vert: 11=-2067(B) 12=-911(B) 13=-911(B)

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

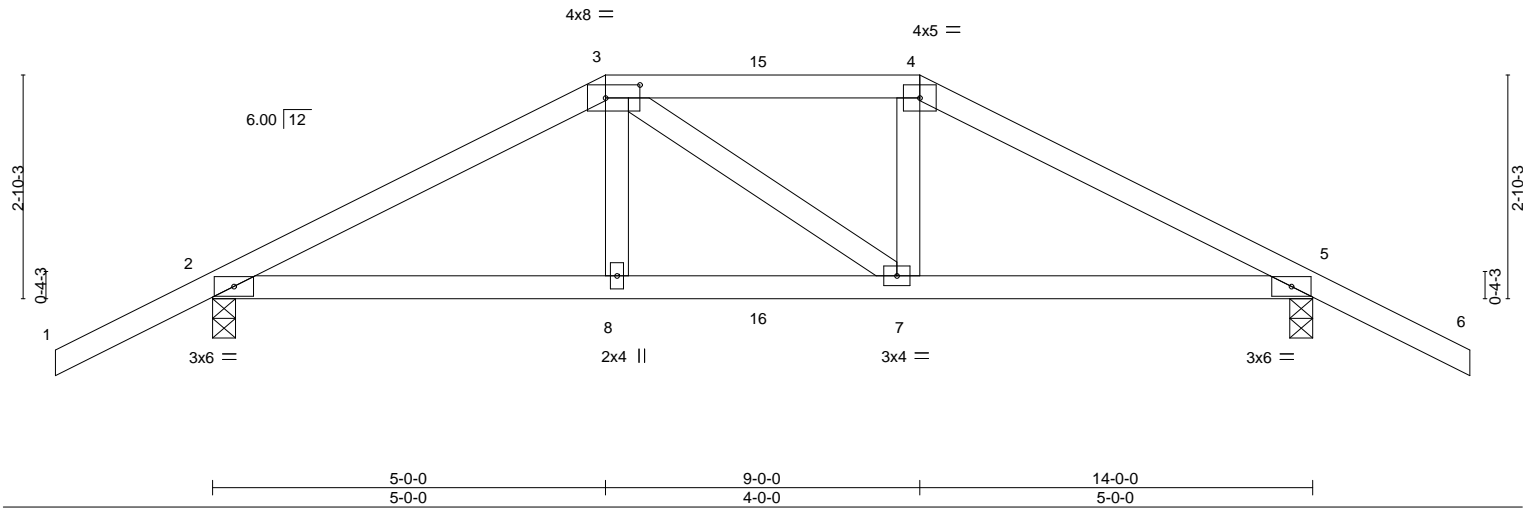
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	GIEBEIG - LOT 19 CW	T36788359
4558297	T20	HIP GIRDER	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkWAAmRMCTL4BhbDoiCU7Wh2vlyXZpBzXNGt
2-0-0 5-0-0 9-0-0 14-0-0 16-0-0
2-0-0 5-0-0 4-0-0 5-0-0 2-0-0

Scale = 1:29.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.04 7-14 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.05 8-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.02 5 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 63 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-9 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-6-5 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 5=0-3-8
Max Horz	2=59(LC 12)
Max Uplift	2=-337(LC 5), 5=-350(LC 4)
Max Grav	2=811(LC 1), 5=829(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1179/563, 3-4=-1049/552, 4-5=-1220/592
BOT CHORD	2-8=-471/1005, 7-8=-475/1015, 5-7=-478/1041
WEBS	3-8=-72/302, 4-7=-49/290

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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=337, 5=350.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 77 lb up at 5-0-0, and 54 lb down and 68 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 153 lb down and 54 lb up at 5-0-0, and 63 lb down at 7-0-0, and 153 lb down and 54 lb up at 8-10-15 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).
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 9-12=-20	

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Date:

March 26,2025

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788359
4558297	T20	HIP GIRDER	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkWAAmRMCTL4BhbDoiCU7Wh2vlyXZpBzXNGt

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-54(F) 4=-119(F) 8=-64(F) 7=-64(F) 15=-54(F) 16=-33(F)

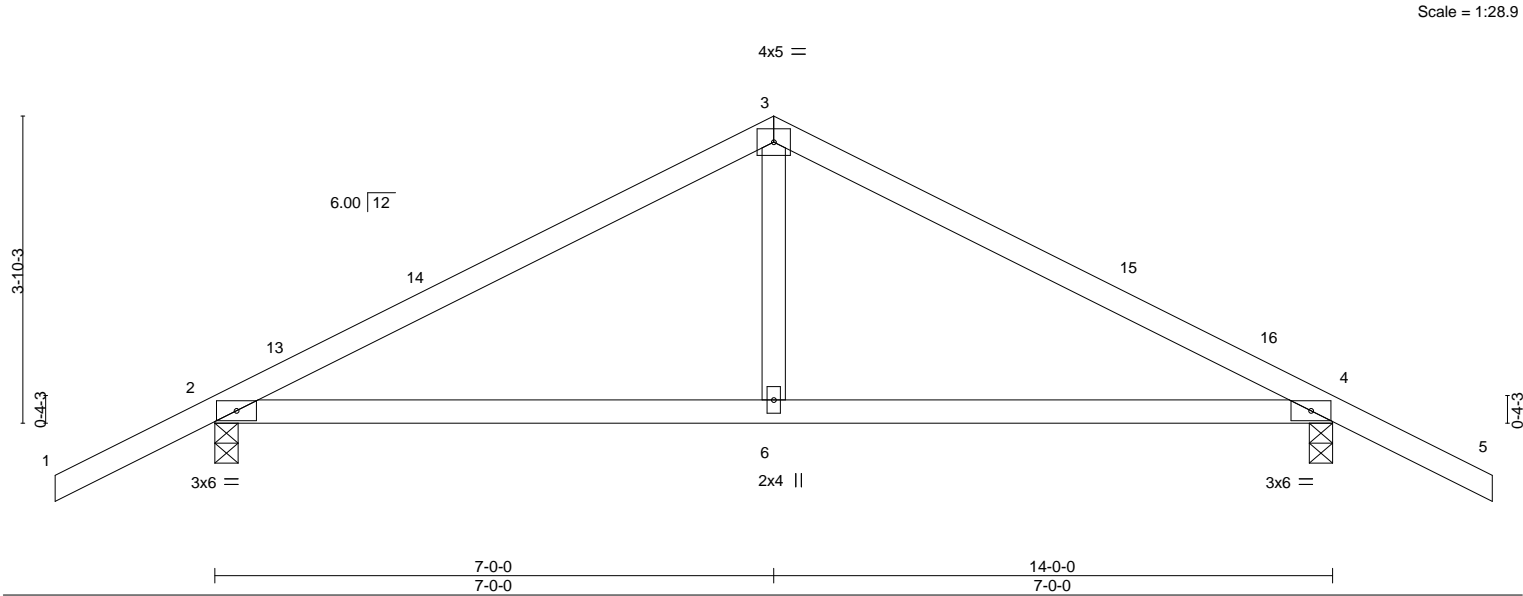
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW	T36788360
4558297	T21	COMMON	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkwaAmRMCTL4BhbDm?CS_WhxvlyXZpBzXNGt



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.51	Vert(LL) 0.09	6-9	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.12	6-9	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	4	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 56 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=75(LC 12)
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=-705/413, 3-4=-705/413
BOT CHORD 2-6=-248/562, 4-6=-248/562
WEBS 3-6=-158/320

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 4=185.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 26,2025

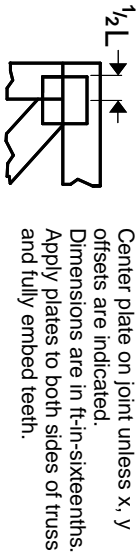
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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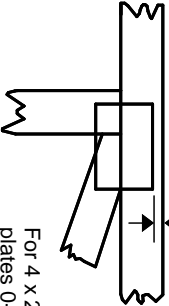
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Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

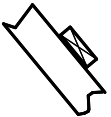
—
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

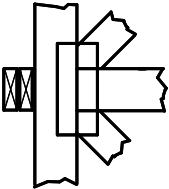
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



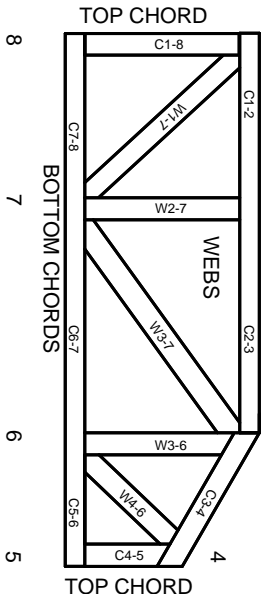
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TP1: 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



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: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 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.