



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

RE: 4398086 - GIEBEIG - LOT 54 CW

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

**Site Information:**

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: 1595  
Lot/Block: 54 Subdivision: Crosswinds  
Address: TBD, TBD  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

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

This package includes 25 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.

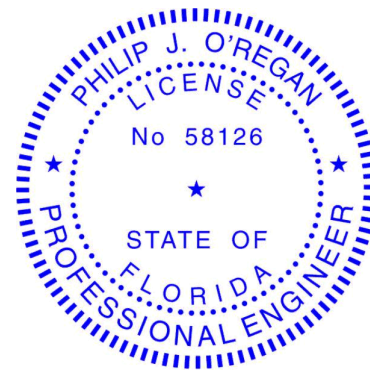
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35925208	CJ01	12/30/24	15	T35925222	T06	12/30/24
2	T35925209	CJ03	12/30/24	16	T35925223	T07	12/30/24
3	T35925210	CJ05	12/30/24	17	T35925224	T08	12/30/24
4	T35925211	CJ07	12/30/24	18	T35925225	T09	12/30/24
5	T35925212	EJ01	12/30/24	19	T35925226	T10	12/30/24
6	T35925213	EJ02	12/30/24	20	T35925227	T11	12/30/24
7	T35925214	HJ10	12/30/24	21	T35925228	T12	12/30/24
8	T35925215	HJ11	12/30/24	22	T35925229	T13	12/30/24
9	T35925216	T01	12/30/24	23	T35925230	T14	12/30/24
10	T35925217	T01G	12/30/24	24	T35925231	T15	12/30/24
11	T35925218	T02	12/30/24	25	T35925232	T16	12/30/24
12	T35925219	T03	12/30/24				
13	T35925220	T04	12/30/24				
14	T35925221	T05	12/30/24				

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.  
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The truss drawing(s) referenced above have been prepared by  
MiTek USA, Inc. under my direct supervision based on the parameters  
provided by Builders FirstSource-Lake City, FL.

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

**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.



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Date:

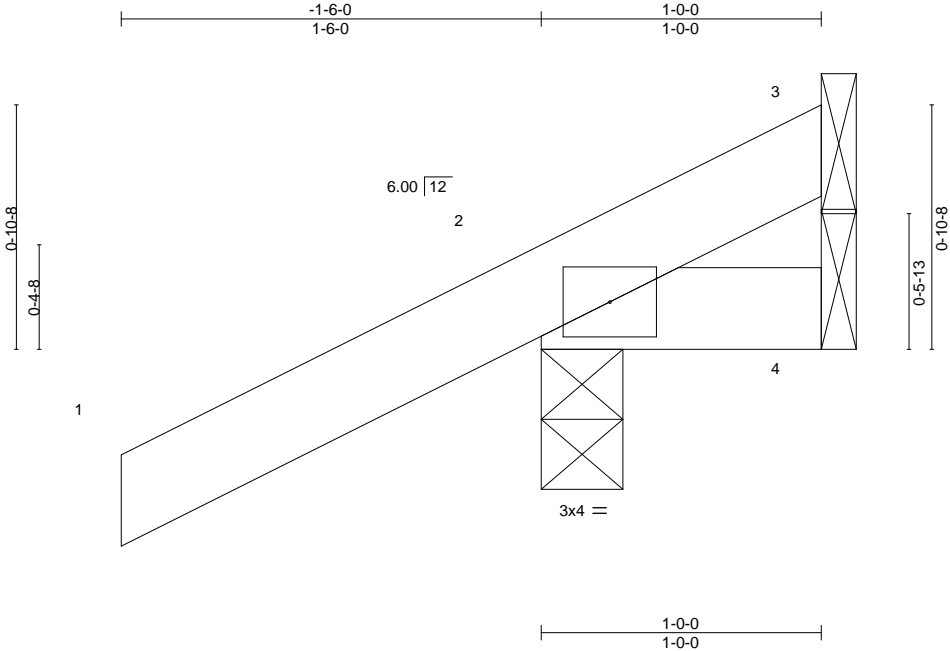
December 30, 2024

ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925208
4398086	CJ01	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:47 2024 Page 1  
ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-\_w5hoo4jIJz3sSKuFRYuOQo8JtWvHN1mxkE61y3sNk



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 6 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=44(LC 12)  
Max Uplift 3=-6(LC 1), 2=-79(LC 12), 4=-19(LC 1)  
Max Grav 3=8(LC 16), 2=179(LC 1), 4=20(LC 16)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 79 lb uplift at joint 2 and 19 lb uplift at joint 4.

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.

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Date:

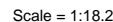
December 30,2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
 Max Horz 2=120(LC 12)  
 Max Uplift 3=-77(LC 12), 2=-79(LC 12), 4=-1(LC 12)  
 Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GC $\rho$ =0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; 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 77 lb uplift at joint 3, 79 lb uplift at joint 2 and 1 lb uplift at joint 4.

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Date:

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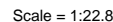


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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.2	BOT CHORD	
<b>REACTIONS.</b>	(size) 1=0-3-8, 2=Mechanical, 3=Mechanical		
	Max Horz 1=128(LC 12)		
	Max Uplift 1=-75(LC 9), 2=-102(LC 12), 3=-49(LC 9)		
	Max Grav 1=257(LC 1), 2=168(LC 1), 3=127(LC 3)		

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone; 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 75 lb uplift at joint 1, 102 lb uplift at joint 2 and 49 lb uplift at joint 3.

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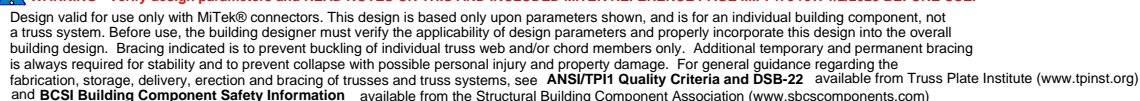


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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925213
4398086	EJ02	Jack-Partial	9	1	Job Reference (optional)	

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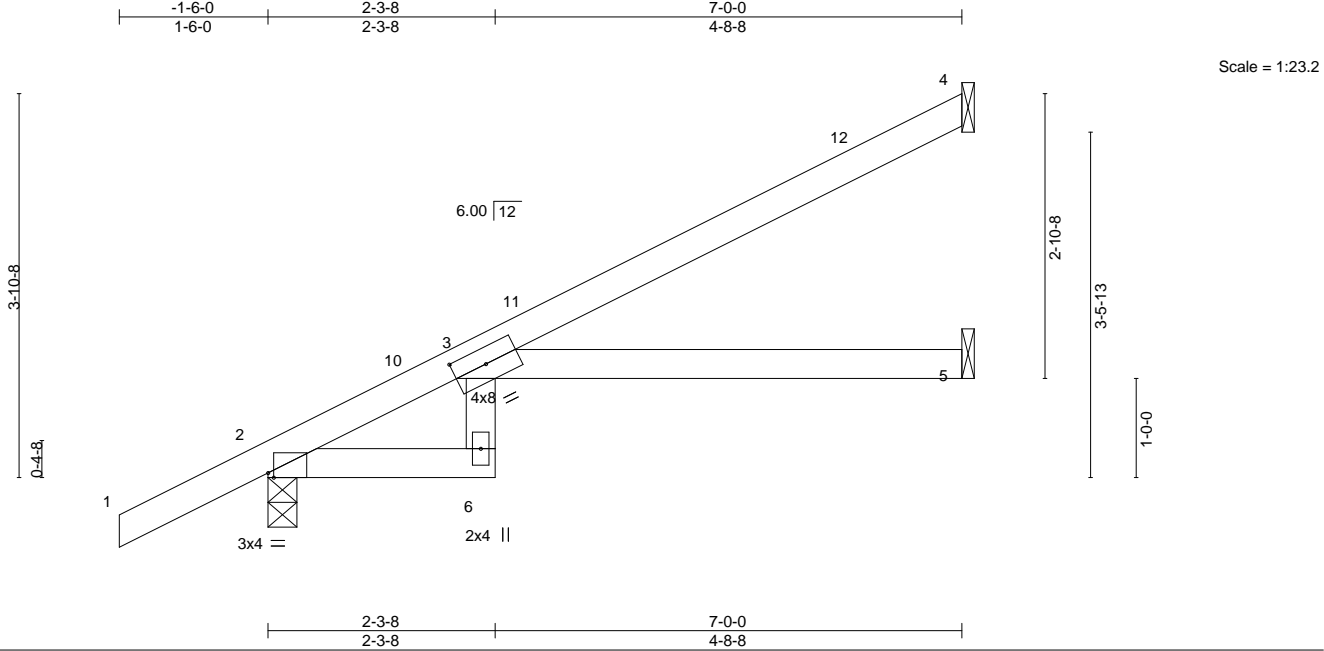


Plate Offsets (X,Y)--		[2:0-0-11,Edge], [3:0-4-0,0-1-15]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	0.17	3-5	>495	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.26	3-5	>315	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.13	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR						Weight: 26 lb	FT = 20%

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

REACTIONS.	(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz	2=153(LC 12)
Max Uplift	4=-84(LC 12), 2=-93(LC 12), 5=-16(LC 12)
Max Grav	4=151(LC 1), 2=347(LC 1), 5=118(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 93 lb uplift at joint 2 and 16 lb uplift at joint 5.

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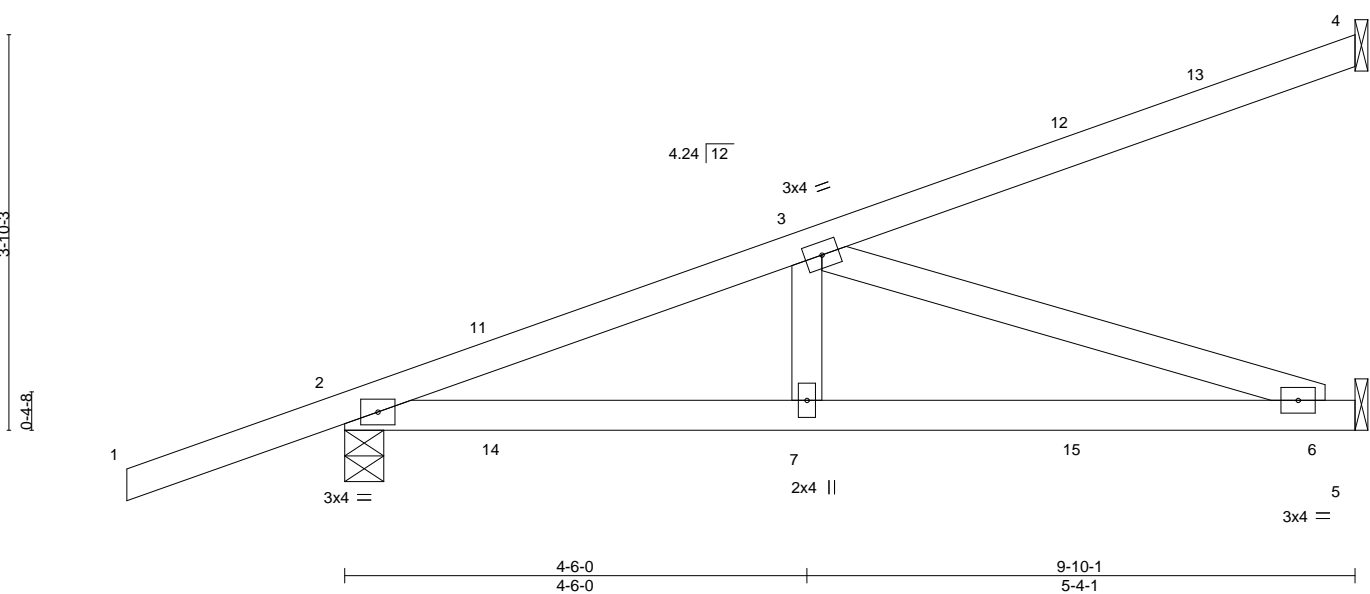


Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925214
4398086	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.58	Vert(LL) 0.07	6-7	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.12	6-7	>992	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.01	5	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 43 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-5-13 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 4=Mechanical, 2=0-4-9, 5=Mechanical  
Max Horz 2=167(LC 4)  
Max Uplift 4=-90(LC 4), 2=-343(LC 4), 5=-171(LC 4)  
Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-799/401  
BOT CHORD 2-7=-463/729, 6-7=-463/729  
WEBS 3-7=-76/281, 3-6=-768/487

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
  - 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 90 lb uplift at joint 4, 343 lb uplift at joint 2 and 171 lb uplift at joint 5.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 74 lb up at 1-6-1, 67 lb down and 74 lb up at 1-6-1, 23 lb down and 46 lb up at 4-4-0, 23 lb down and 46 lb up at 4-4-0, and 45 lb down and 87 lb up at 7-1-15, and 45 lb down and 87 lb up at 7-1-15 on top chord, and 46 lb down and 43 lb up at 1-6-1, 46 lb down and 43 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 27 lb up at 4-4-0, and 67 lb down and 16 lb up at 7-1-15, and 67 lb down and 16 lb up at 7-1-15 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).

**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=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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December 30,2024

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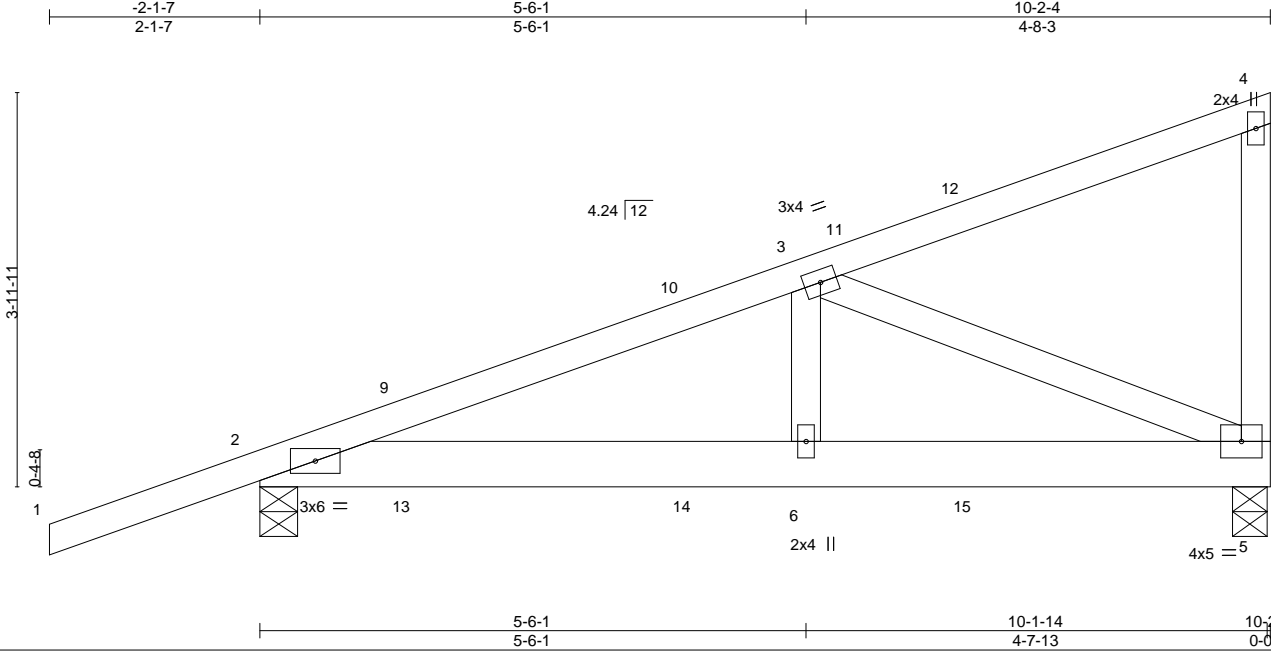


Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925215
4398086	HJ11	Roof Special Girder	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:50 2024 Page 1

ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-OVmqRq6b2E5XwKBuZN\_FW12FEExsO6Z3TSvyujMy3sNh



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.02	6-8	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT) -0.03	6-8	>999	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) 0.01	5	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 57 lb	FT = 20%

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

**REACTIONS.** (size) 2=0-4-9, 5=0-4-3  
Max Horz 2=176(LC 33)  
Max Uplift 2=-350(LC 4), 5=-476(LC 4)  
Max Grav 2=539(LC 1), 5=782(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-727/352, 4-5=-384/242  
BOT CHORD 2-6=-412/656, 5-6=-412/656  
WEBS 3-6=-81/278, 3-5=-693/436

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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 350 lb uplift at joint 2 and 476 lb uplift at joint 5.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 74 lb up at 1-6-1, 67 lb down and 74 lb up at 1-6-1, 40 lb down and 46 lb up at 4-4-0, 40 lb down and 46 lb up at 4-4-0, 93 lb down and 87 lb up at 7-1-15, 93 lb down and 87 lb up at 7-1-15, and 153 lb down and 105 lb up at 10-0-8, and 157 lb down and 108 lb up at 10-0-8 on top chord, and 46 lb down and 43 lb up at 1-6-1, 46 lb down and 43 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 27 lb up at 4-4-0, 67 lb down and 16 lb up at 7-1-15, and 67 lb down and 16 lb up at 7-1-15, and 98 lb down and 63 lb up at 10-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 2-5=-20  
Concentrated Loads (lb)  
Vert: 4=-252(F=-124, B=-128) 5=-74(B) 12=-73(F=-36, B=-36) 14=-6(F=-3, B=-3) 15=-59(F=-29, B=-29)

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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:

December 30,2024

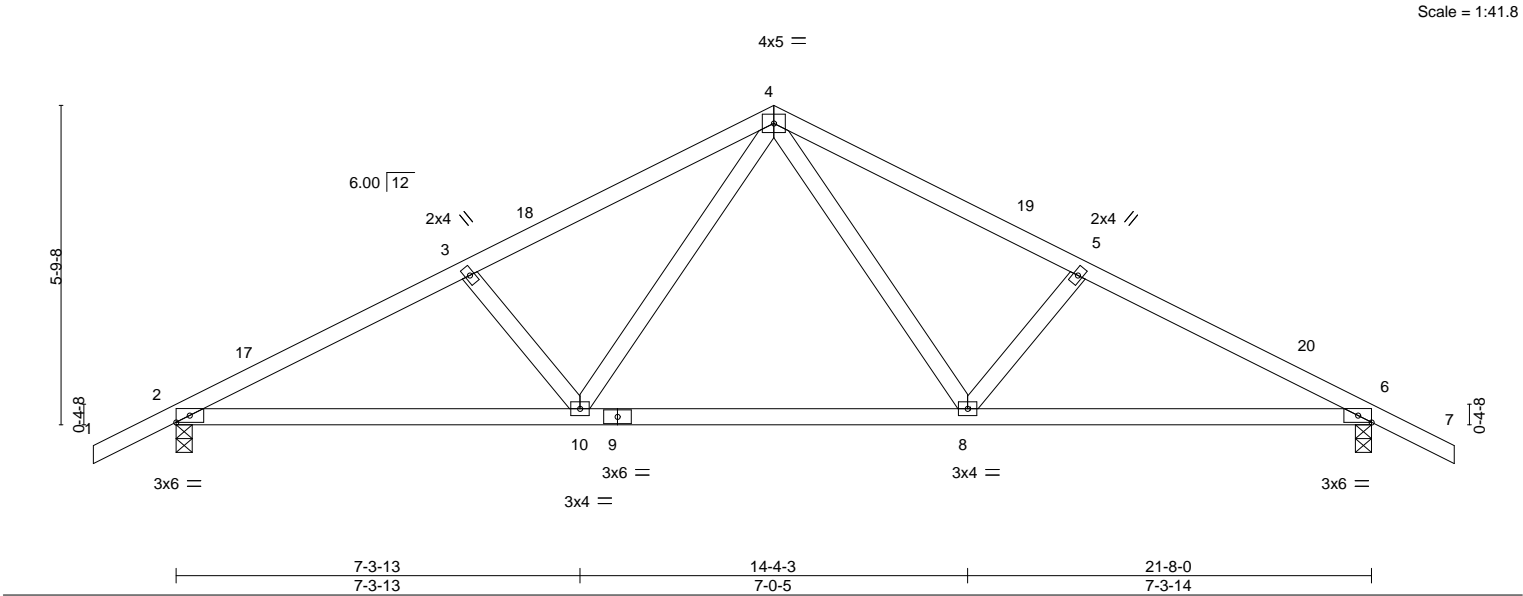
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925216
4398086	T01	Common	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:51 2024 Page 1  
ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-siKCeA7EpYDOXUm575VU2EaOgx0Mr05dhYiSFoy3sNg



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.19 8-10 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.38 8-10 >686 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.05 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 102 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-15 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-5-2 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
Max Horz 2=-103(LC 17)  
Max Uplift 2=-313(LC 12), 6=-313(LC 13)  
Max Grav 2=1093(LC 1), 6=1093(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1891/521, 3-4=-1724/512, 4-5=-1724/512, 5-6=-1891/521  
BOT CHORD 2-10=-480/1643, 8-10=-229/1099, 6-8=-401/1643  
WEBS 4-8=-234/717, 5-8=-277/203, 4-10=-234/717, 3-10=-277/203

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-10-0, Zone2 10-10-0 to 15-0-15, Zone1 15-0-15 to 23-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 2 and 313 lb uplift at joint 6.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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December 30,2024

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925217
4398086	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:51 2024 Page 1

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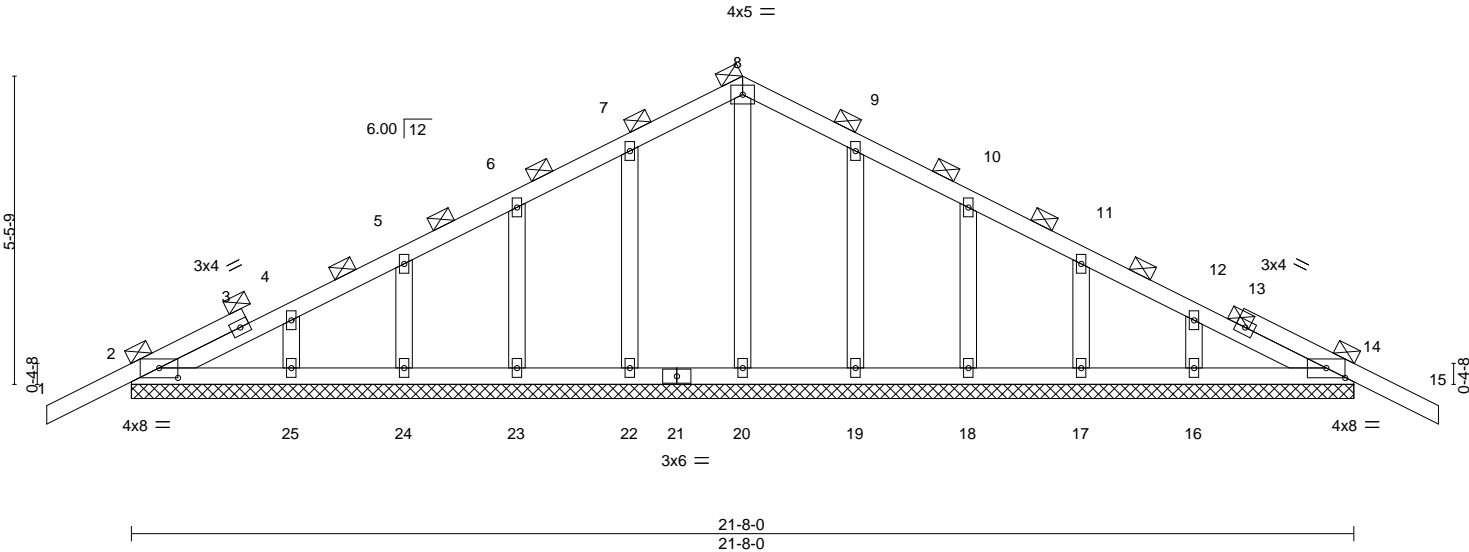


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [14:0-4-0,0-2-1]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.13		Vert(LL)	-0.01 15	n/r	120	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.05		Vert(CT)	-0.01 15	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.06		Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-S						Weight: 114 lb	FT = 20%

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

REACTIONS.	All bearings 21-8-0.
(lb) - Max Horz	2=97(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16
Max Grav	All reactions 250 lb or less at joint(s) 2, 14, 20, 22, 23, 24, 25, 19, 18, 17, 16

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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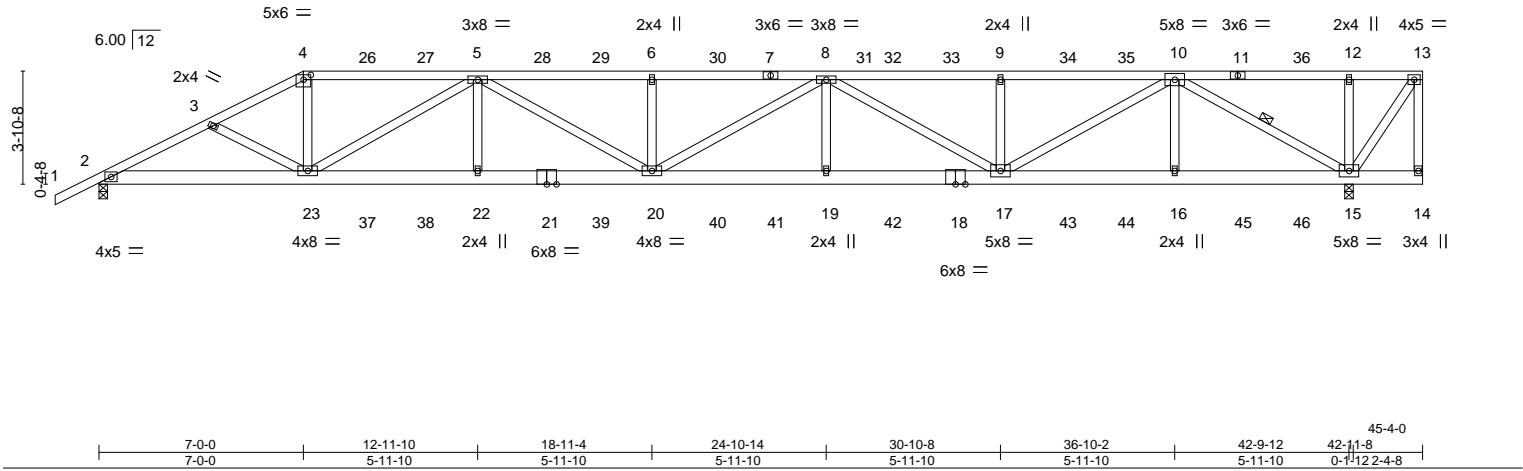
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925218
4398086	T02	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:55 2024 Page 1  
ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-ITaiUXAksnjq053sMxaQD4l\_xYNinjYDcAgfOZy3sNc



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	0.55 19-20 >933	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.94 19-20 >547				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.17 15 n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 566 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-12 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 10-15

**REACTIONS.** (size) 2=0-3-8, 15=0-3-8  
Max Horz 2=161(LC 8)  
Max Uplift 2=1276(LC 8), 15=1545(LC 5)  
Max Grav 2=3250(LC 1), 15=3957(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-6693/2656, 3-4=-6553/2615, 4-5=-5948/2410, 5-6=-10423/4094, 6-8=-10423/4094, 8-9=-8434/3297, 9-10=-8434/3297  
BOT CHORD 2-23=-2455/5940, 22-23=-3571/9024, 20-22=-3571/9024, 19-20=-4033/10291, 17-19=-4033/10291, 16-17=-1955/5006, 15-16=-1955/5006  
WEBS 4-23=-900/2462, 5-23=-3628/1419, 5-22=0/502, 5-20=-621/1658, 6-20=-626/378, 8-19=-2/515, 8-17=-2152/896, 9-17=-634/381, 10-17=-1555/3973, 10-16=0/480, 10-15=-5848/2286, 12-15=-569/331

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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=1276, 15=1545.

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925218
4398086	T02	Half Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:56 2024 Page 2  
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**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 102 lb up at 7-0-0, 110 lb down and 102 lb up at 9-0-12, 110 lb down and 102 lb up at 11-0-12, 110 lb down and 102 lb up at 13-0-12, 110 lb down and 102 lb up at 15-0-12, 110 lb down and 102 lb up at 17-0-12, 110 lb down and 102 lb up at 19-0-12, 110 lb down and 102 lb up at 21-0-12, 110 lb down and 102 lb up at 23-0-12, 110 lb down and 102 lb up at 25-0-12, 110 lb down and 102 lb up at 27-0-12, 110 lb down and 102 lb up at 29-0-12, 110 lb down and 102 lb up at 31-0-12, 110 lb down and 102 lb up at 33-0-12, 110 lb down and 102 lb up at 35-0-12, 110 lb down and 102 lb up at 37-0-12, 110 lb down and 102 lb up at 39-0-12, 110 lb down and 102 lb up at 41-0-12, and 110 lb down and 102 lb up at 43-0-12, and 133 lb down and 101 lb up at 45-2-4 on top chord, and 335 lb down and 226 lb up at 7-0-0, 86 lb down and 21 lb up at 9-0-12, 86 lb down and 21 lb up at 11-0-12, 86 lb down and 21 lb up at 13-0-12, 86 lb down and 21 lb up at 15-0-12, 86 lb down and 21 lb up at 17-0-12, 86 lb down and 21 lb up at 19-0-12, 86 lb down and 21 lb up at 21-0-12, 86 lb down and 21 lb up at 23-0-12, 86 lb down and 21 lb up at 25-0-12, 86 lb down and 21 lb up at 27-0-12, 86 lb down and 21 lb up at 29-0-12, 86 lb down and 21 lb up at 31-0-12, 86 lb down and 21 lb up at 33-0-12, 86 lb down and 21 lb up at 35-0-12, 86 lb down and 21 lb up at 37-0-12, 86 lb down and 21 lb up at 39-0-12, 86 lb down and 21 lb up at 41-0-12, and 86 lb down and 21 lb up at 43-0-12, and 103 lb down and 13 lb up at 45-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-13=-54, 2-14=-20

Concentrated Loads (lb)

Vert: 4=-110(B) 7=-110(B) 13=-133(B) 14=-73(B) 21=-64(B) 23=-335(B) 5=-110(B) 22=-64(B) 20=-64(B) 6=-110(B) 19=-64(B) 8=-110(B) 9=-110(B) 17=-64(B) 16=-64(B) 10=-110(B) 12=-110(B) 15=-64(B) 11=-110(B) 18=-64(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-110(B) 32=-110(B) 33=-110(B) 34=-110(B) 35=-110(B) 36=-110(B) 37=-64(B) 38=-64(B) 39=-64(B) 40=-64(B) 41=-64(B) 42=-64(B) 43=-64(B) 44=-64(B) 45=-64(B) 46=-64(B)

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925219
4398086	T03	Half Hip	1	1	Job Reference (optional)	

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

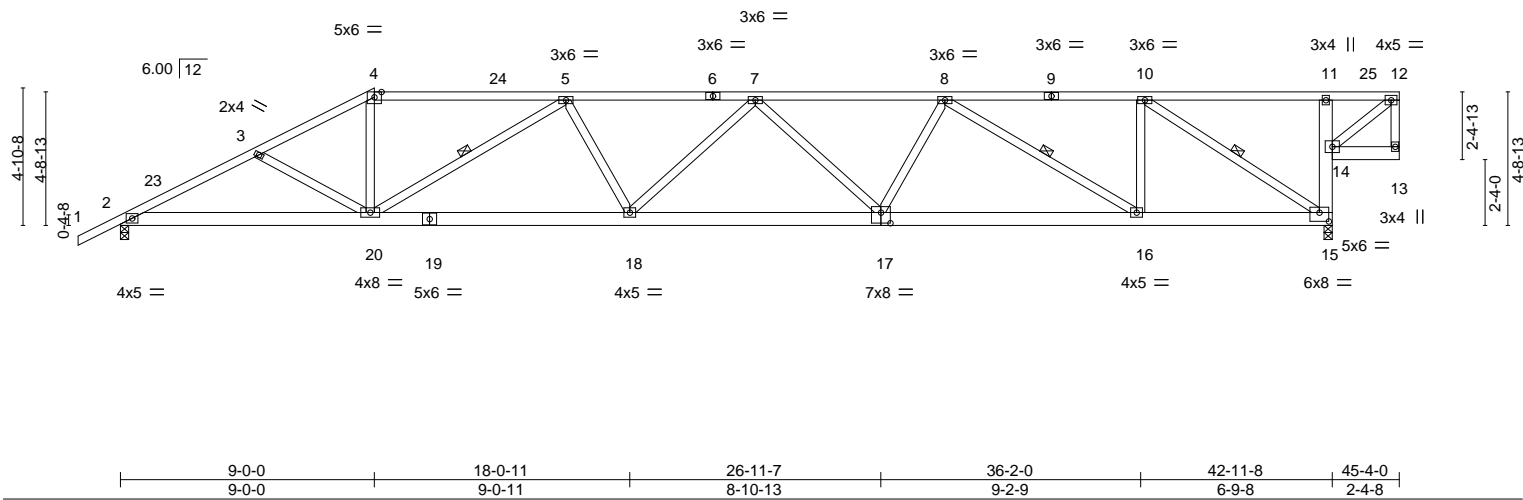
8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:56 2024 Page 1

ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-Df85htBMd4rheFe2ve5flllCkxoPW9rMrqPCw0y3sNb

1-6-0 | 4-10-15 | 9-0-0 | 15-9-8 | 22-6-1 | 29-2-11 | 36-2-0 | 42-11-8 | 45-4-0

1-6-0 | 4-10-15 | 4-1-1 | 6-9-8 | 6-8-9 | 6-8-10 | 6-11-5 | 6-9-8 | 2-4-8

Scale = 1:81.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.31 17-18 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.60 17-18 >859 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.14 15 n/a n/a				
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS							
								Weight: 278 lb		FT = 20%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-20, 8-16, 10-15

**REACTIONS.** (size) 2=0-3-8, 15=0-3-8  
Max Horz 2=195(LC 12)  
Max Uplift 2=405(LC 9), 15=569(LC 9)  
Max Grav 2=1658(LC 1), 15=1767(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3114/845, 3-4=-2916/822, 4-5=-2552/752, 5-7=-3755/1157, 7-8=-3576/1114, 8-10=-2032/645  
BOT CHORD 2-20=-817/2757, 18-20=-1145/3619, 17-18=-1236/3846, 16-17=-1080/3342, 15-16=-645/2032, 14-15=-359/157, 11-14=-276/152  
WEBS 4-20=-232/985, 5-20=-1333/495, 5-18=-42/378, 7-17=-378/171, 8-17=-73/539, 8-16=-1547/514, 10-16=-217/981, 10-15=-2431/764

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 45-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=405, 15=569.

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:

December 30,2024

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

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925220
4398086	T04	Hip	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:57 2024 Page 1

ID:MRUpuoKKMqHFIytM1PC4d7zYSsJ-hrhTvDC\_OOzYGPDTLcuIVqQ3L9KFdyV3U9mTSy3sNa



Scale = 1:81.2

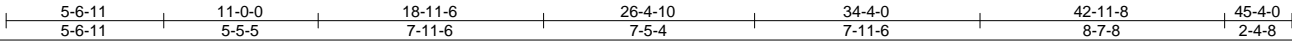
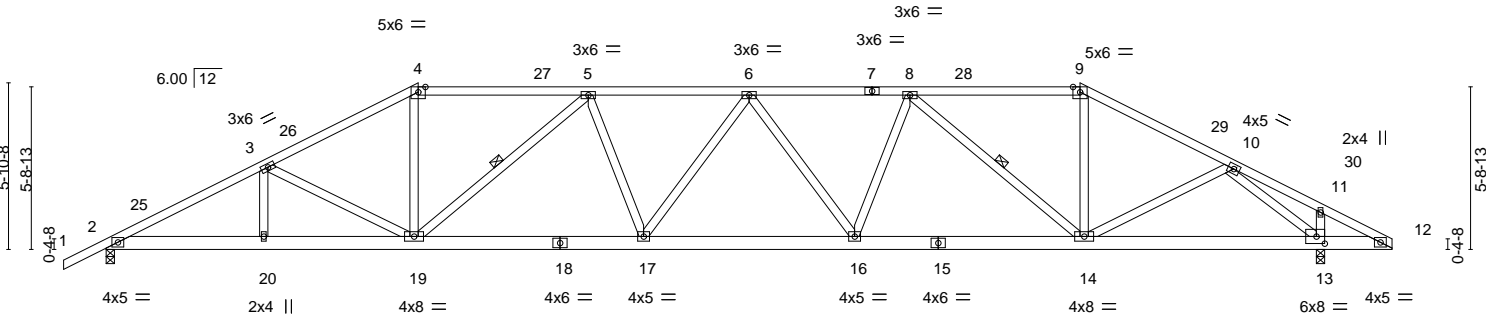


Plate Offsets (X,Y)--		[13:0-3-8,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.23	16-17	>999	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.43	16-17	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	13	n/a	n/a			
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS								Weight: 280 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-3 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-19, 8-14

**REACTIONS.** (size) 2=0-3-8, 13=0-3-8  
Max Horz 2=114(LC 16)  
Max Uplift 2=471(LC 12), 13=475(LC 13)  
Max Grav 2=1661(LC 1), 13=1775(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3153/853, 3-4=-2750/753, 4-5=-2389/710, 5-6=-3101/882, 6-8=-2967/834,  
8-9=-1963/574, 9-10=-2266/599  
BOT CHORD 2-20=-788/2777, 19-20=-788/2777, 17-19=-823/3028, 16-17=-853/3135, 14-16=-748/2822,  
13-14=-375/1578  
WEBS 3-19=-413/217, 4-19=-195/907, 5-19=-939/349, 5-17=-71/297, 6-16=-331/189,  
8-16=-118/452, 8-14=-1192/408, 9-14=-151/691, 10-14=-133/532, 10-13=-2136/601

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 34-4-0, Zone2 34-4-0 to 38-6-15, Zone1 38-6-15 to 45-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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=471, 13=475.

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  
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Date:

December 30,2024

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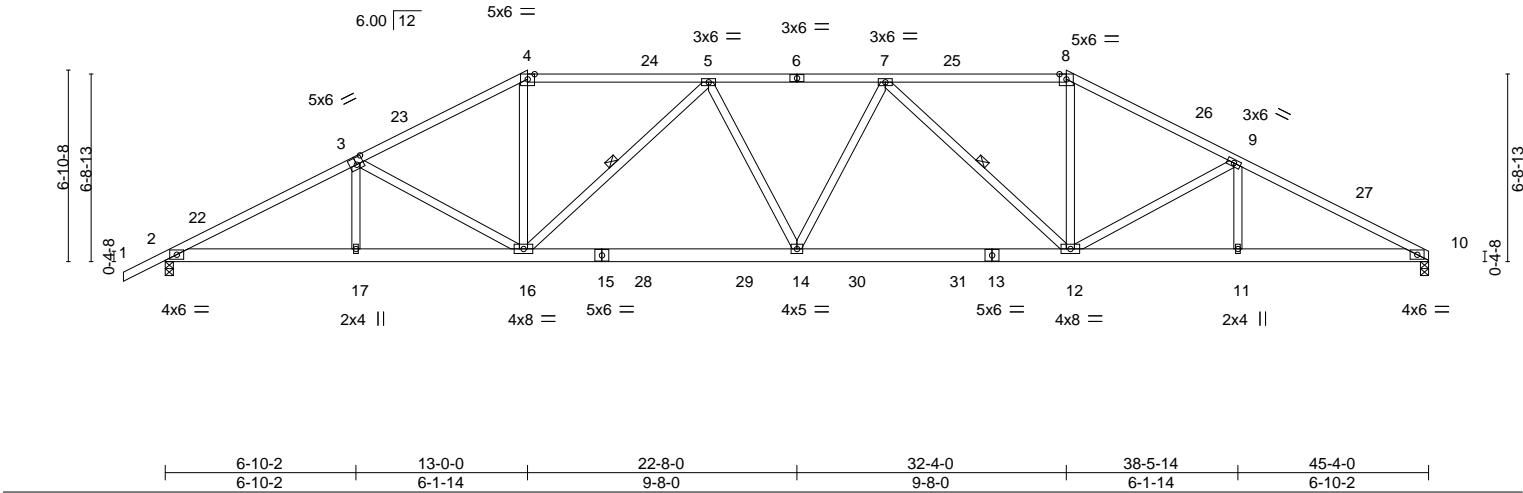
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Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925221
4398086	T05	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:24:57 2024 Page 1			
ID:MRUpuoKKMqHFLytM1PC4d7zYSsJ-hrhTvDC_OOzYGPDTLCulVqOML6oFh8V3U9mTSy3sNa							
1-6-0	6-10-2	13-0-0	19-5-15	25-10-1	32-4-0	38-5-14	45-4-0
1-6-0	6-10-2	6-1-14	6-5-15	6-4-1	6-5-15	6-1-14	6-10-2

Scale = 1:82.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.34 12-14 >999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.58 12-14 >934	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.16 10 n/a	n/a			
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 274 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-7 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-0-15 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-16, 7-12

REACTIONS.	
(size)	10=0-3-8, 2=0-3-8
Max Horz	2=131(LC 16)
Max Uplift	10=-447(LC 13), 2=-485(LC 12)
Max Grav	10=1844(LC 2), 2=1912(LC 2)


FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3646/868, 3-4=-3127/745, 4-5=-2727/709, 5-7=-3397/736, 7-8=-2730/711, 8-9=-3130/749, 9-10=-3648/879
BOT CHORD	2-17=-804/3216, 16-17=-803/3219, 14-16=-694/3287, 12-14=-667/3288, 11-12=-707/3229, 10-11=-707/3229
WEBS	3-17=0/252, 3-16=-549/266, 4-16=-167/1110, 5-16=-859/300, 5-14=-74/327, 7-14=-72/326, 7-12=-857/299, 8-12=-167/1113, 9-12=-557/276, 9-11=0/255


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 32-4-0, Zone2 32-4-0 to 36-6-15, Zone1 36-6-15 to 45-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=447, 2=485.

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:

December 30,2024

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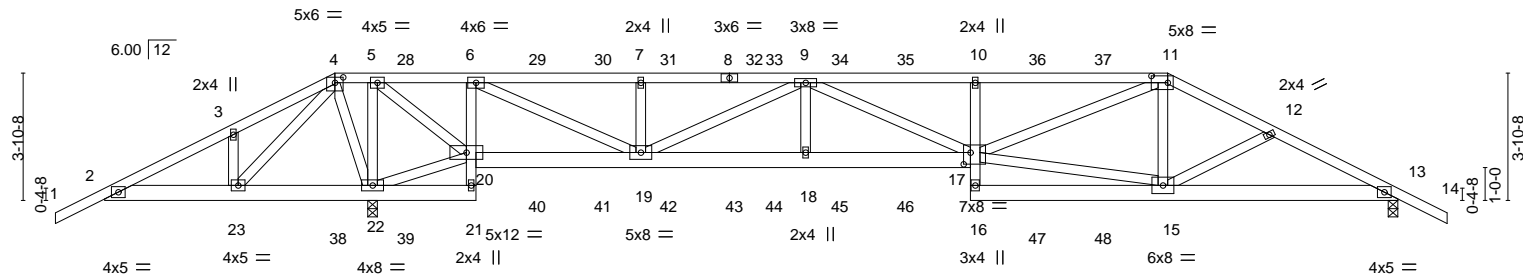
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW
4398086	T08	Hip Girder	1	2	T35925224

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:01 2024 Page 1
ID:MRUpuoKKMqHfIytM1PC4d7zYSSJ-adx_kbFVSdUzk0X0iBhqSL?_6yQsBR95_67zcDy3sNW		
-1-6-0, 3-10-15, 7-0-0, 8-1-12, 11-3-8, 16-3-11, 21-3-13, 26-4-0, 32-4-0, 35-5-1, 39-4-0, 40-10-0		
1-6-0, 3-10-15, 3-1-1, 1-1-12, 3-1-12, 5-0-3, 5-0-3, 5-0-3, 6-0-0, 3-1-1, 3-10-15, 1-6-0		

Scale = 1:70.1



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925224
4398086	T08	Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:01 2024 Page 2  
ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-adx\_kbFVSdUzk0X0iBhqSL?\_6yQsBR95\_67zcDy3sNW

**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 102 lb up at 7-0-0, 110 lb down and 102 lb up at 9-0-12, 97 lb down and 88 lb up at 11-0-12, 97 lb down and 88 lb up at 13-0-12, 97 lb down and 88 lb up at 15-0-12, 97 lb down and 88 lb up at 17-0-12, 97 lb down and 84 lb up at 19-0-12, 97 lb down and 84 lb up at 20-3-4, 97 lb down and 88 lb up at 22-3-4, 97 lb down and 88 lb up at 24-3-4, 97 lb down and 88 lb up at 26-3-4, 110 lb down and 102 lb up at 28-3-4, and 110 lb down and 102 lb up at 30-3-4, and 230 lb down and 197 lb up at 32-4-0 on top chord, and 335 lb down and 226 lb up at 7-0-0, 86 lb down and 21 lb up at 9-0-12, 78 lb down and 36 lb up at 13-0-12, 78 lb down and 36 lb up at 15-0-12, 78 lb down and 36 lb up at 17-0-12, 78 lb down and 36 lb up at 19-0-12, 78 lb down and 36 lb up at 20-3-4, 78 lb down and 36 lb up at 22-3-4, 78 lb down and 36 lb up at 24-3-4, 78 lb down and 36 lb up at 26-5-12, 86 lb down and 21 lb up at 28-3-4, and 86 lb down and 21 lb up at 30-3-4, and 335 lb down and 226 lb up at 32-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-14=-54, 2-21=-20, 17-20=-20, 13-16=-20

Concentrated Loads (lb)

Vert: 4=-110(F) 8=-97(F) 11=-182(F) 6=-97(F) 10=-97(F) 17=-77(F) 15=-335(F) 28=-110(F) 29=-97(F) 30=-97(F) 31=-97(F) 33=-97(F) 34=-97(F) 35=-97(F) 36=-110(F) 37=-110(F) 38=-335(F) 39=-64(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=-77(F) 45=-77(F) 46=-77(F) 47=-64(F) 48=-64(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 54 CW	T35925225
4398086	T09	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:02 2024 Page 1							
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1-6-0	4-10-0	9-0-0	11-3-8	18-9-12	26-4-0	30-4-0	34-6-8	39-4-0	40-10-0		
1-6-0	4-10-0	4-1-15	2-3-8	7-6-4	7-6-4	4-0-0	4-2-8	4-9-8	1-6-0		

Scale = 1:72.5

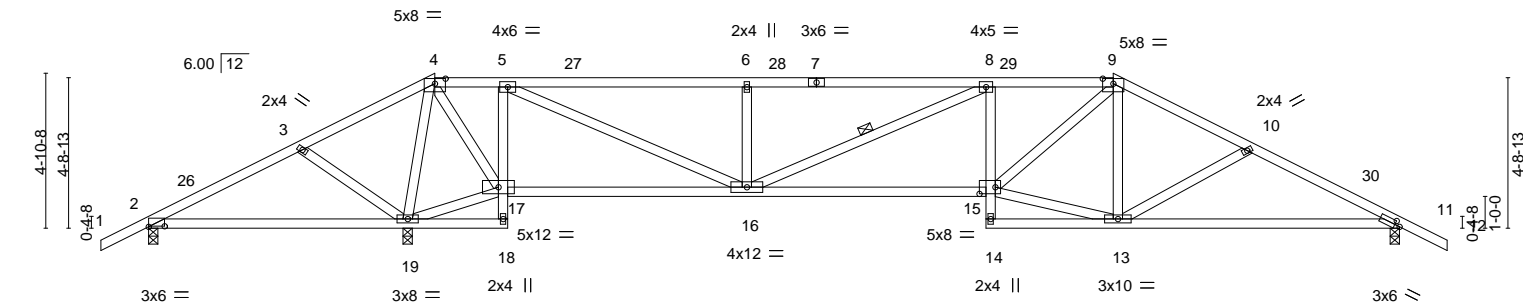


Plate Offsets (X,Y)--	[2:0-6-0,0-0-3], [4:0-4-0,0-1-15], [9:0-4-0,0-1-15], [11:0-1-15,0-1-8], [15:0-6-0,0-2-8]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL)	-0.15 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(CT)	-0.33 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT)	0.06 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS					Weight: 215 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD 2x4 SP No.2 *Except	BOT CHORD Rigid ceiling directly applied or 5-4-10 oc bracing.
WEBS 5-18,8-14: 2x4 SP No.3	WEBS 1 Row at midpt 8-16
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8, 19=0-3-8  
Max Horz 2=86(LC 12)  
Max Uplift 2=-469(LC 26), 11=-343(LC 13), 19=-662(LC 9)  
Max Grav 2=78(LC 13), 11=1073(LC 26), 19=2263(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-322/1271, 3-4=-349/1445, 4-5=-63/419, 5-6=-1482/495, 6-8=-1482/495,  
8-9=-1958/628, 9-10=-1549/493, 10-11=-1790/580  
BOT CHORD 2-19=-1106/356, 5-17=-1151/427, 16-17=-386/254, 15-16=-499/1999, 11-13=-437/1575  
WEBS 3-19=-348/201, 4-19=-1601/422, 17-19=-967/364, 4-17=-308/1051, 5-16=-584/2021,  
6-16=-428/241, 8-16=-576/256, 13-15=-246/1327, 9-15=-288/831, 10-13=-268/183

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 30-4-0, Zone2 30-4-0 to 34-8-6, Zone1 34-8-6 to 40-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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=469, 11=343, 19=662.

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:

December 30,2024

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

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**MiTek®**

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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925226
4398086	T10	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:02 2024 Page 1  
ID:MRUpuoKKMqHfIytM1PC4d7zYSsJ-2pVMyxG7DwcqMA6CGvC3?ZYCKMqQwutEDmsX8gy3sNV  
1-6-0, 8-1-12, 11-0-0 11-3-8, 18-9-12, 26-4-0, 28-4-0, 32-8-4, 37-4-0  
1-6-0, 8-1-12, 2-10-4 0-3-8, 7-6-4, 7-6-4, 2-0-0, 4-4-4, 4-7-12  
Scale = 1:68.9

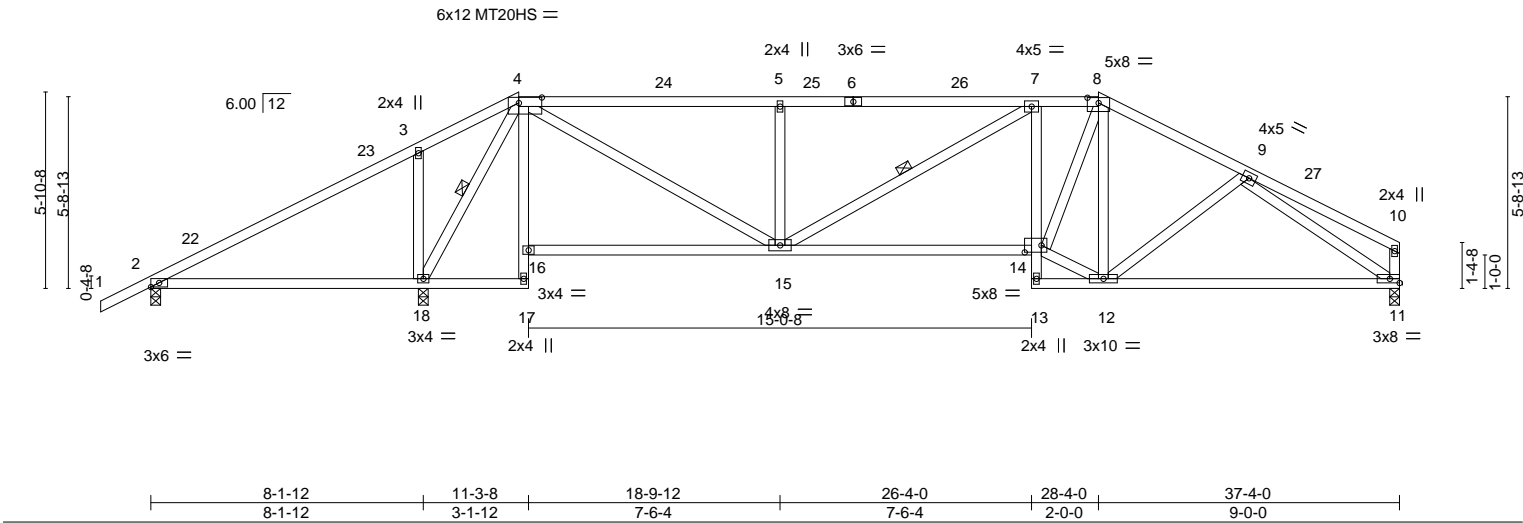


Plate Offsets (X,Y)--		[4:0-8-4,0-2-0], [8:0-4-0,0-1-15], [14:0-6-0,0-2-8]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.78		Vert(LL)		0.15 18-21		>635		240		MT20		244/190	
TCDL 7.0		Lumber DOL		1.25		BC 0.71		Vert(CT)		-0.31 11-12		>999		180		MT20HS		187/143	
BCLL 0.0 **		Rep Stress Incr		YES		WB 0.72		Horz(CT)		0.06 11		n/a		n/a					
BCDL 10.0		Code		FBC2023/TP12014		Matrix-MS										Weight: 213 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
4-17,7-13: 2x4 SP No.3	WEBS 1 Row at midpt 7-15, 4-18
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 11=0-3-8  
Max Horz 2=138(LC 12)  
Max Uplift 2=-222(LC 26), 18=-517(LC 9), 11=-301(LC 13)  
Max Grav 2=15(LC 25), 18=1874(LC 1), 11=971(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-201/846, 3-4=-106/762, 4-5=-1305/460, 5-7=-1303/458, 7-8=-1416/516, 8-9=-1246/424  
BOT CHORD 2-18=-689/169, 14-15=-359/1437, 7-14=-331/208, 11-12=-331/1068  
WEBS 3-18=-415/267, 4-15=-418/1448, 5-15=-472/261, 12-14=-224/1189, 8-14=-308/879, 8-12=-354/151, 9-11=-1201/400, 4-18=-1456/331

- NOTES-
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 28-4-0, Zone2 28-4-0 to 32-9-8, Zone1 32-9-8 to 37-2-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 18=517, 11=301.

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:

December 30,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925227
4398086	T11	Hip	1	1	Job Reference (optional)	

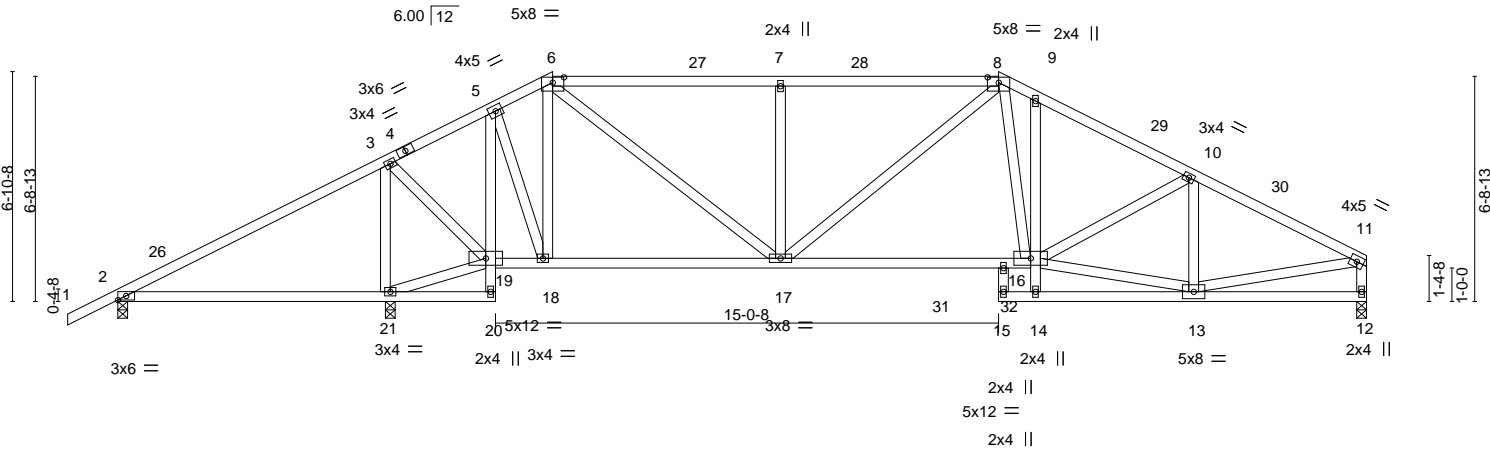
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:03 2024 Page 1

ID:MRUpuoKKMqHfIytM1PC4d7zYSsJ-W?3k9HGI\_Ekh\_KgOqcjIXm4PhmAkfPQOSQc4g6y3sNU



Scale = 1:68.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.15 21-25 >649 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.29 16-17 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05 12 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 236 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-9 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS	5-20,9-14: 2x4 SP No.3		10-0-0 oc bracing: 14-16
	2x4 SP No.3		

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8, 21=0-3-8  
Max Horz 2=155(LC 12)  
Max Uplift 2=-75(LC 26), 12=-289(LC 13), 21=-429(LC 12)  
Max Grav 2=188(LC 25), 12=1124(LC 2), 21=1823(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-100/529, 3-5=-419/171, 5-6=-638/214, 6-7=-1390/378, 7-8=-1390/378,  
GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15,  
8-9=-1600/476, 9-10=-1681/448, 10-11=-1518/395, 11-12=-1038/300  
BOT CHORD 2-21=-430/154, 5-19=-827/153, 18-19=-76/336, 17-18=-131/602, 16-17=-221/1373  
WEBS 3-21=-1385/423, 19-21=-418/152, 3-19=-142/963, 5-18=-176/807, 6-18=-592/205,  
6-17=-260/1031, 7-17=-431/237, 8-16=-113/518, 13-16=-285/1330, 10-13=-408/157,  
11-13=-272/1253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 26-4-0, Zone2 26-4-0 to 30-6-15, Zone1 30-6-15 to 37-2-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=289, 21=429.

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:

December 30,2024

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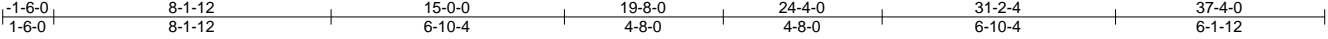
**MiTek®**  
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925228
4398086	T12	Hip	1	1	Job Reference (optional)	

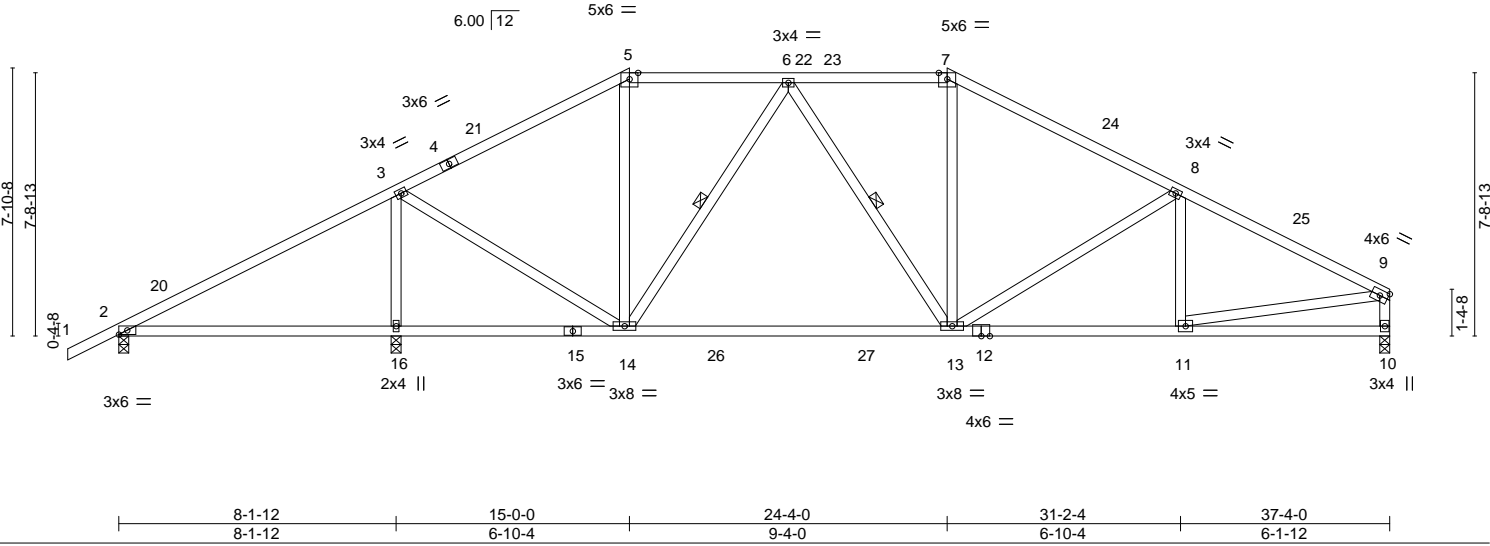
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:04 2024 Page 1

ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ- Cc6NcHNIYsYbTFbNJEX4\_dYMAScOsXg4LeCYy3sNT



Scale = 1:67.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	Vert(LL)	0.17 16-19	>563	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.99	Vert(CT)	-0.57 13-14	>616	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.49	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 210 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-14, 6-13

**REACTIONS.** (size) 2=0-3-8, 16=0-3-8, 10=0-3-8  
Max Horz 2=171(LC 12)  
Max Uplift 2=102(LC 9), 16=399(LC 12), 10=296(LC 13)  
Max Grav 2=319(LC 25), 16=1654(LC 2), 10=1140(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-5=-943/246, 5-6=-771/257, 6-7=-1135/386, 7-8=-1342/379, 8-9=-1584/423, 9-10=-1035/310  
BOT CHORD 13-14=-173/1027, 11-13=-319/1372  
WEBS 3-16=-1376/416, 3-14=-137/1042, 6-14=-522/197, 6-13=-71/250, 7-13=-42/344, 8-13=-302/208, 9-11=-285/1273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 24-4-0, Zone2 24-4-0 to 28-6-15, Zone1 28-6-15 to 37-2-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 16=399, 10=296.

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:

December 30,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925229
4398086	T13	Hip	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:05 2024 Page 1

ID:MRUpuoKKMqHFIytM1PC4d7zYSsJ-SOAUayl0Wr\_PDdqnX1mmcBAleas\_7Jghvk5Bl\_y3sNS

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1-6-0

5-6-15  
5-6-15

11-4-4  
5-9-5

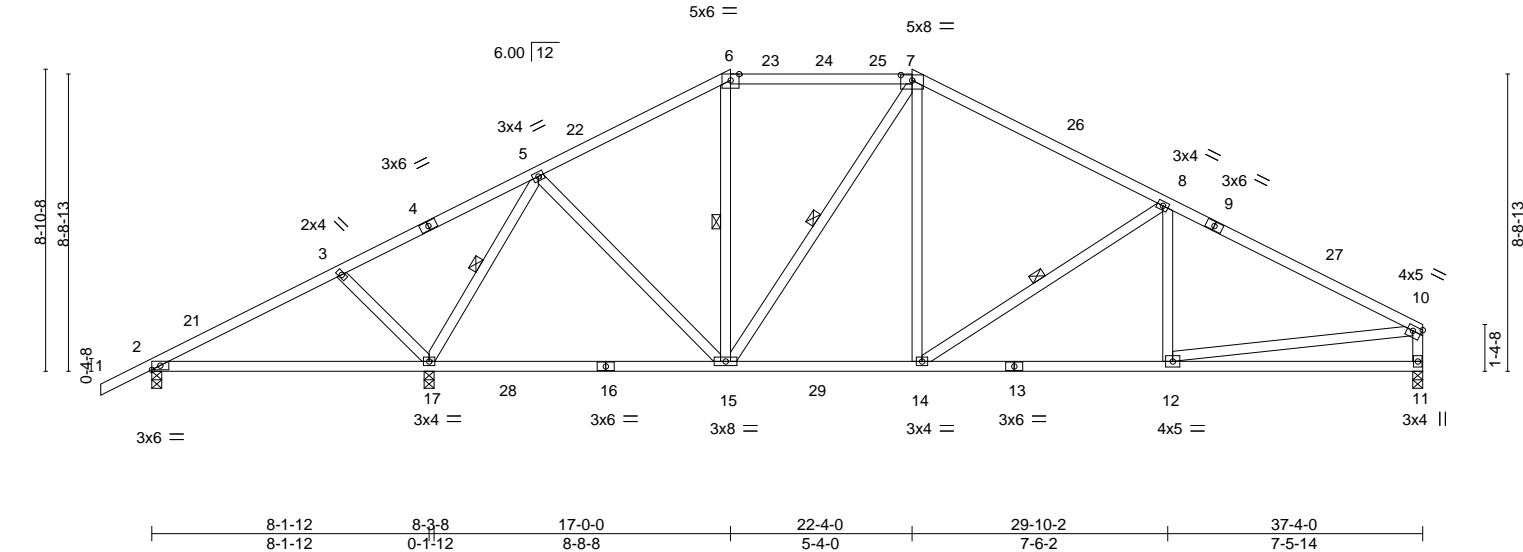
17-0-0  
5-7-12

22-4-0  
5-4-0

29-10-2  
7-6-2

37-4-0  
7-5-14

Scale = 1:67.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.12 17-20 >815 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.28 15-17 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03 11 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 216 lb		FT = 20%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.3	WEBS	6-0-0 oc bracing: 2-17.
			1 Row at midpt 5-17, 6-15, 7-15, 8-14

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8, 17=0-3-8  
Max Horz 2=189(LC 12)  
Max Uplift 2=90(LC 8), 11=287(LC 13), 17=439(LC 12)  
Max Grav 2=266(LC 25), 11=1119(LC 2), 17=1773(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-5=-116/427, 5-6=-914/277, 6-7=-766/267, 7-8=-1152/342, 8-10=-1576/407, 10-11=-1002/305  
BOT CHORD 15-17=-94/381, 14-15=-91/953, 12-14=-289/1353  
WEBS 3-17=-315/213, 5-17=-1397/380, 5-15=-65/597, 7-15=-390/163, 7-14=-107/499, 8-14=-485/258, 10-12=-229/1203

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 22-4-0, Zone2 22-4-0 to 26-6-15, Zone1 26-6-15 to 37-2-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=287, 17=439.

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:

December 30,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925230
4398086	T14	Roof Special	1	1	Job Reference (optional)	

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

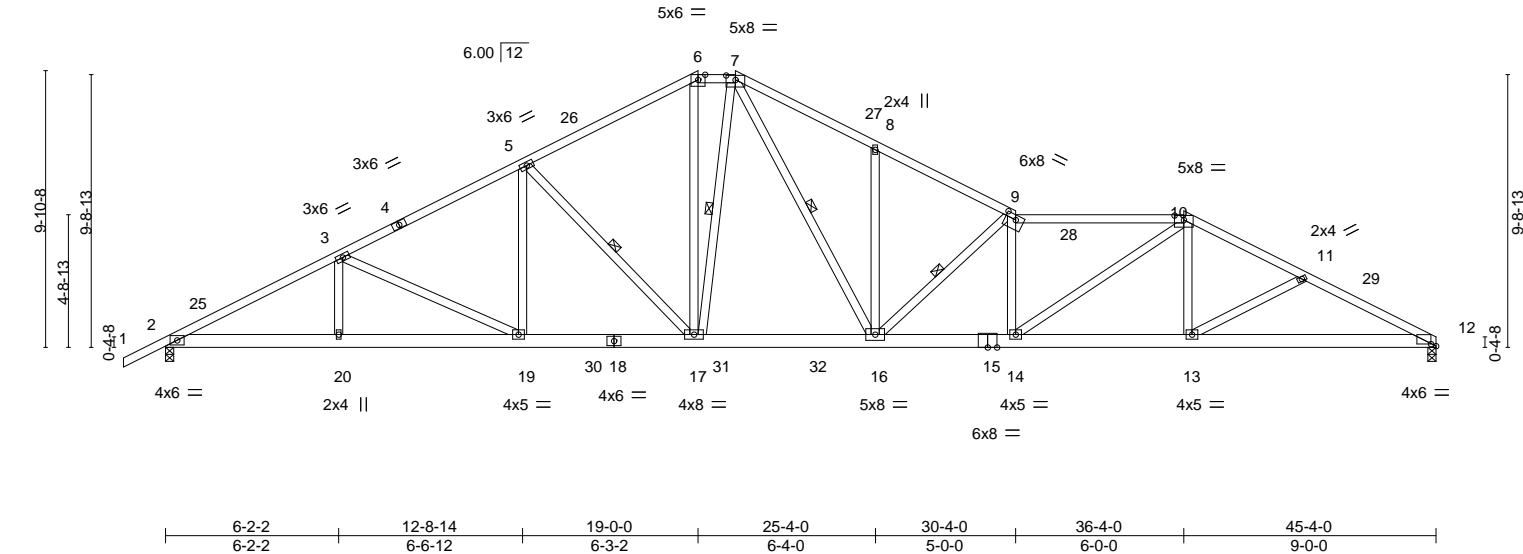
8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:05 2024 Page 1

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1-6-0 6-2-2 12-8-14 19-0-0 20-4-0 25-3-14 30-4-0 36-4-0 40-6-8 45-4-0

1-6-0 6-2-2 6-6-12 6-3-2 1-4-0 4-11-14 5-0-3 6-0-0 4-2-8 4-9-8

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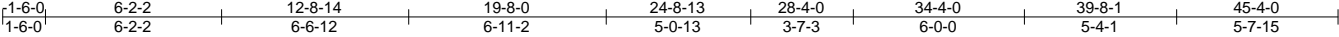


Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925231
4398086	T15	Roof Special	1	1	Job Reference (optional)	

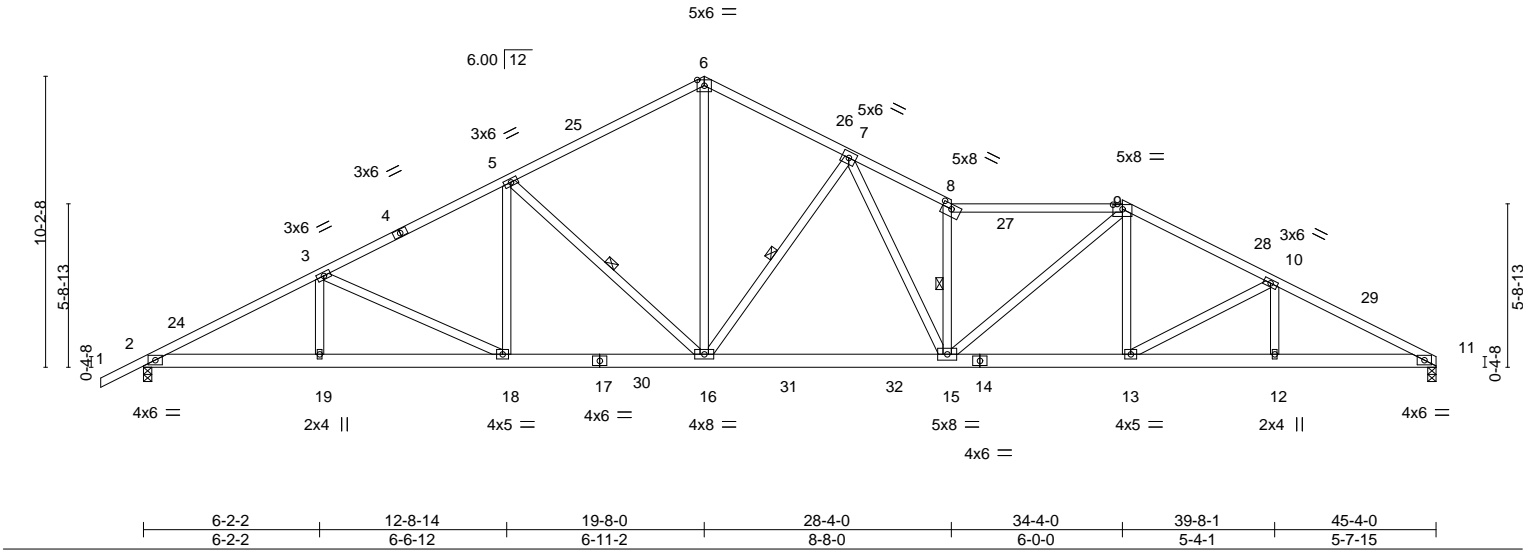
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:06 2024 Page 1

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Scale = 1:80.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.39 15-16 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.66 15-16 >824 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.15 11 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 297 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-2-2 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-16, 7-16, 8-15

**REACTIONS.** (size) 11=0-3-8, 2=0-3-8  
Max Horz 2=189(LC 16)  
Max Uplift 11=-460(LC 13), 2=-448(LC 12)  
Max Grav 11=1832(LC 2), 2=1912(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3695/790, 3-5=-3111/669, 5-6=-2477/622, 6-7=-2452/607, 7-8=-4125/1039,  
8-9=-3690/901, 9-10=-3258/824, 10-11=-3690/923  
BOT CHORD 2-19=-799/3264, 18-19=-799/3264, 16-18=-573/2729, 15-16=-466/2860, 13-15=-568/2871,  
12-13=-760/3273, 11-12=-760/3273  
WEBS 3-19=0/275, 3-18=-593/249, 5-18=-63/500, 5-16=-792/344, 6-16=-426/1898,  
7-16=-1245/463, 7-15=-488/1806, 8-15=-2077/606, 9-15=-219/1091, 9-13=-78/427,  
10-13=-458/216

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 19-8-0, Zone2 19-8-0 to 23-10-15, Zone1 23-10-15 to 34-4-0, Zone2 34-4-0 to 38-6-15, Zone1 38-6-15 to 45-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=460, 2=448.

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:

December 30,2024

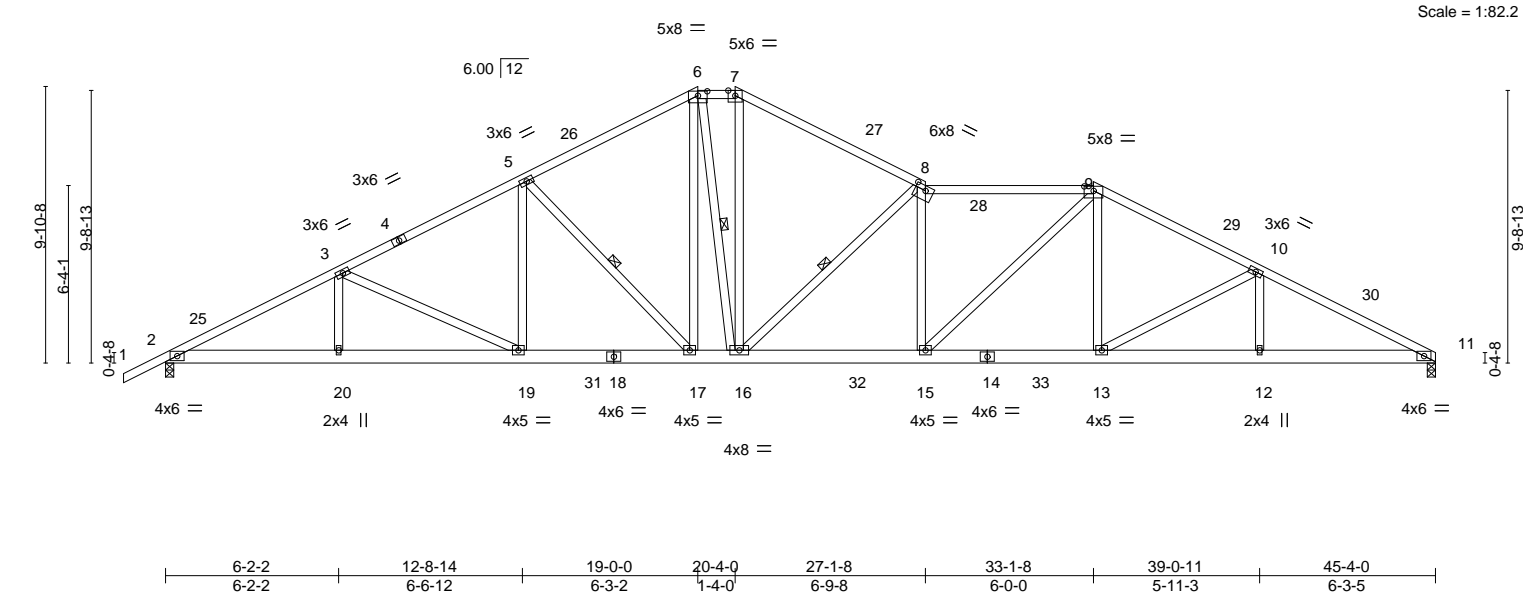
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 54 CW	T35925232
4398086	T16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Mon Dec 30 06:25:07 2024 Page 1  
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1-6-0 6-2-2 12-8-14 19-0-0 20-4-0 27-1-8 33-1-8 39-0-11 45-4-0  
1-6-0 6-2-2 6-6-12 6-3-2 1-4-0 6-9-8 6-0-0 5-11-3 6-3-5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.30 15-16 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.52 15-16 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.15 11 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS				Weight: 315 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-3-2 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-17, 6-16, 8-16

**REACTIONS.** (size) 11=0-3-8, 2=0-3-8  
Max Horz 2=182(LC 16)  
Max Uplift 11=-456(LC 13), 2=-443(LC 12)  
Max Grav 11=1844(LC 2), 2=1908(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3685/780, 3-5=-3105/657, 5-6=-2518/613, 6-7=-2244/600, 7-8=-2591/612, 8-9=-3418/840, 9-10=-3184/789, 10-11=-3688/908  
BOT CHORD 2-20=-783/3256, 19-20=-783/3256, 17-19=-554/2723, 16-17=-329/2191, 15-16=-604/3409, 13-15=-516/2794, 12-13=-740/3269, 11-12=-740/3269  
WEBS 3-20=0/270, 3-19=-591/254, 5-19=-69/522, 5-17=-760/320, 6-17=-189/628, 6-16=-197/472, 7-16=-195/907, 8-16=-1552/494, 8-15=-438/184, 9-15=-194/873, 9-13=-85/509, 10-13=-536/253, 10-12=0/255

**NOTES-**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 19-0-0, Zone3 19-0-0 to 20-4-0, Zone2 20-4-0 to 24-6-15, Zone1 24-6-15 to 33-1-8, Zone2 33-1-8 to 37-4-7, Zone1 37-4-7 to 45-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.  
4) Provide adequate drainage to prevent water ponding.  
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=456, 2=443.

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.

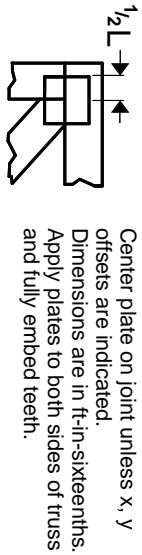
Philip J. O'Regan PE No.58126  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 30,2024

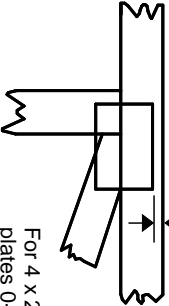


# Symbols

## PLATE LOCATION AND ORIENTATION



0-<sup>1</sup>/<sub>16</sub>"



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

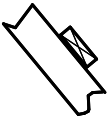
—  
This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

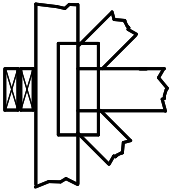
4 X 4  
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

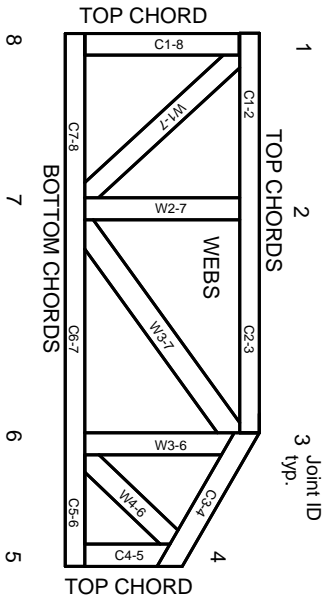
## BEARING



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



**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.