



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

RE: 4681784 - DOUG DAVID

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: RON DAVID PLASTERING Project Name: Doug David Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Lake City State: FL

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

Name: License #:
Address: State:
City:

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

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



This package includes 17 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.

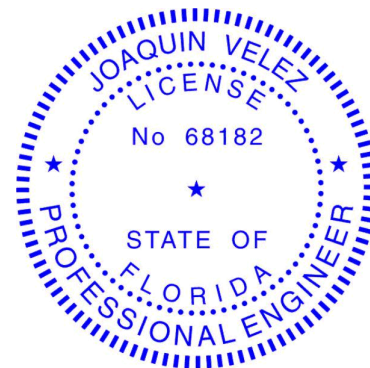
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T37498251	CJ01	6/3/25	15	T37498265	T06	6/3/25
2	T37498252	CJ03	6/3/25	16	T37498266	T07	6/3/25
3	T37498253	CJ05	6/3/25	17	T37498267	V01	6/3/25
4	T37498254	EJ01	6/3/25				
5	T37498255	HJ10	6/3/25				
6	T37498256	T01	6/3/25				
7	T37498257	T01G	6/3/25				
8	T37498258	T02	6/3/25				
9	T37498259	T03	6/3/25				
10	T37498260	T03G	6/3/25				
11	T37498261	T04	6/3/25				
12	T37498262	T04G	6/3/25				
13	T37498263	T05	6/3/25				
14	T37498264	T05G	6/3/25				

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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: Velez, Joaquin
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.



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

June 3, 2025

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498251
4681784	CJ01	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:50 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-olxi?6ZX?3MHAKDZHghv5twwFg1lZxo5OQR84dzAKAt

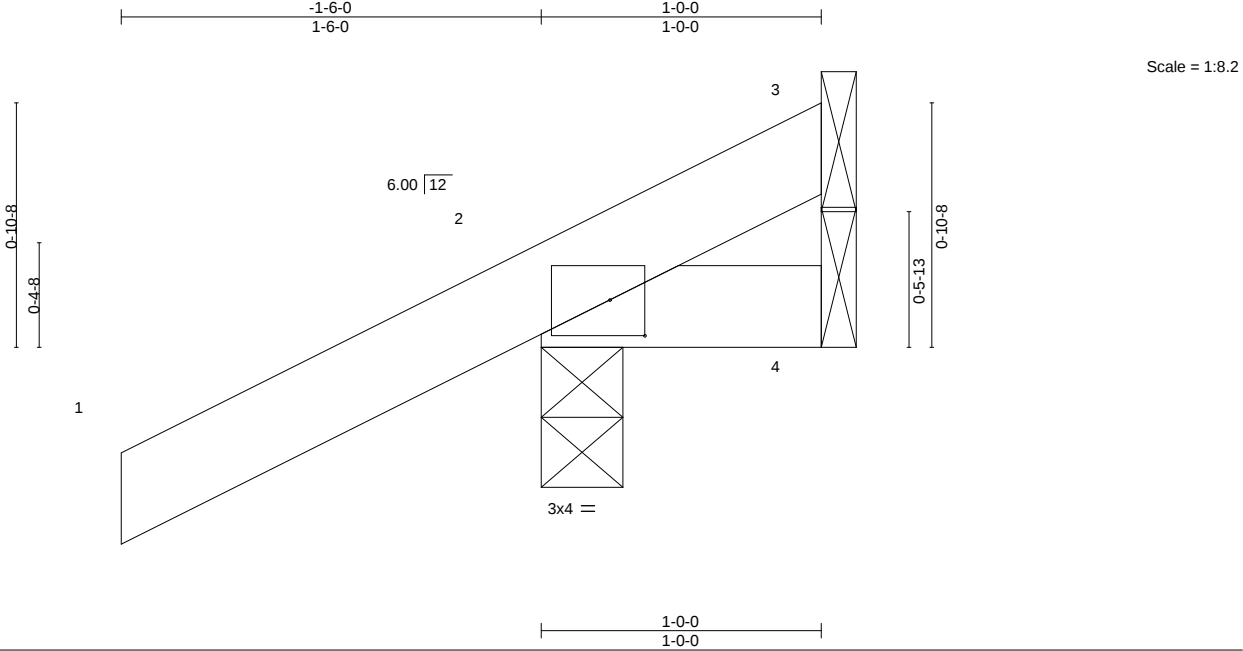


Plate Offsets (X,Y)--		[2:0-1-8,0-1-9]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.24		Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.05		Vert(CT)	0.00 7	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		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=55(LC 12)
Max Uplift 3=-6(LC 1), 2=-107(LC 12), 4=-19(LC 1)
Max Grav 3=12(LC 8), 2=179(LC 1), 4=25(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=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=107.

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Date:

June 3,2025

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

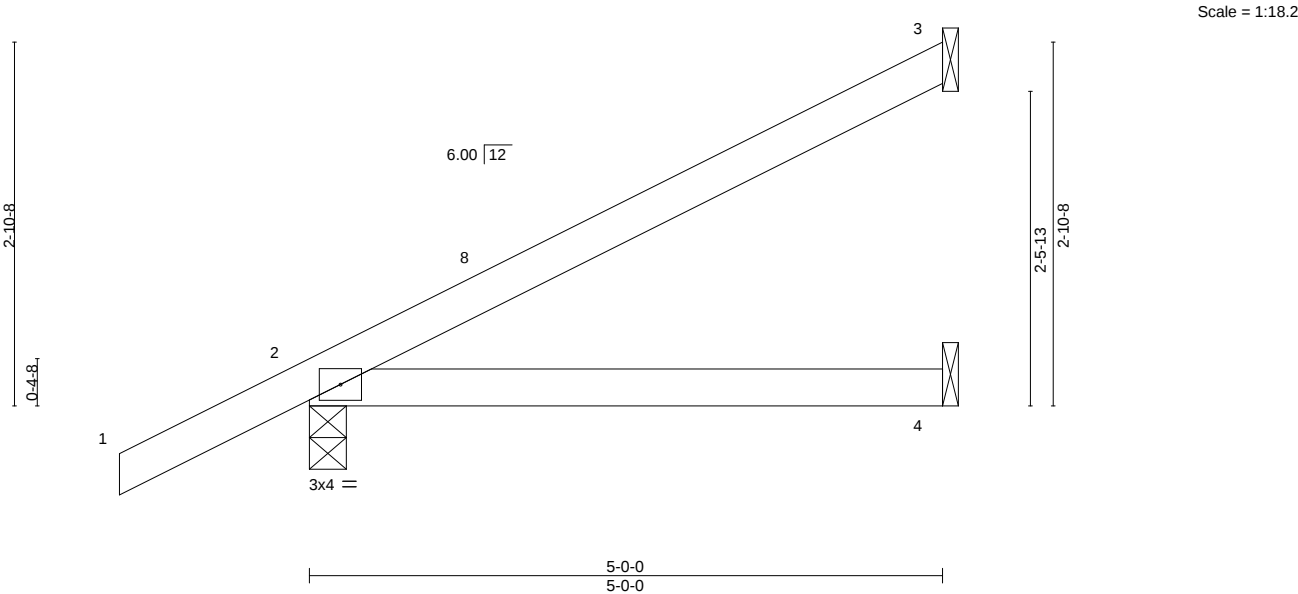
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	DOUG DAVID	T37498253
4681784	CJ05	Jack-Open	2	1	Job Reference (optional)	

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

8.830 s Apr 24 2025
MiTek Industries, Inc.
Mon Jun 2 12:15:51 2025
Page 1
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5-0-0
5-0-0



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.04	4-7	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.30	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: 18 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=152(LC 12)
Max Uplift 3=-102(LC 12), 2=-113(LC 12), 4=-5(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; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=102, 2=113.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498254
4681784	EJ01	Jack-Partial	13	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:52 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-kh2SPnanXgc?P2NyP5jNAI_8mTbm1rlOrkwE9VzAKAr

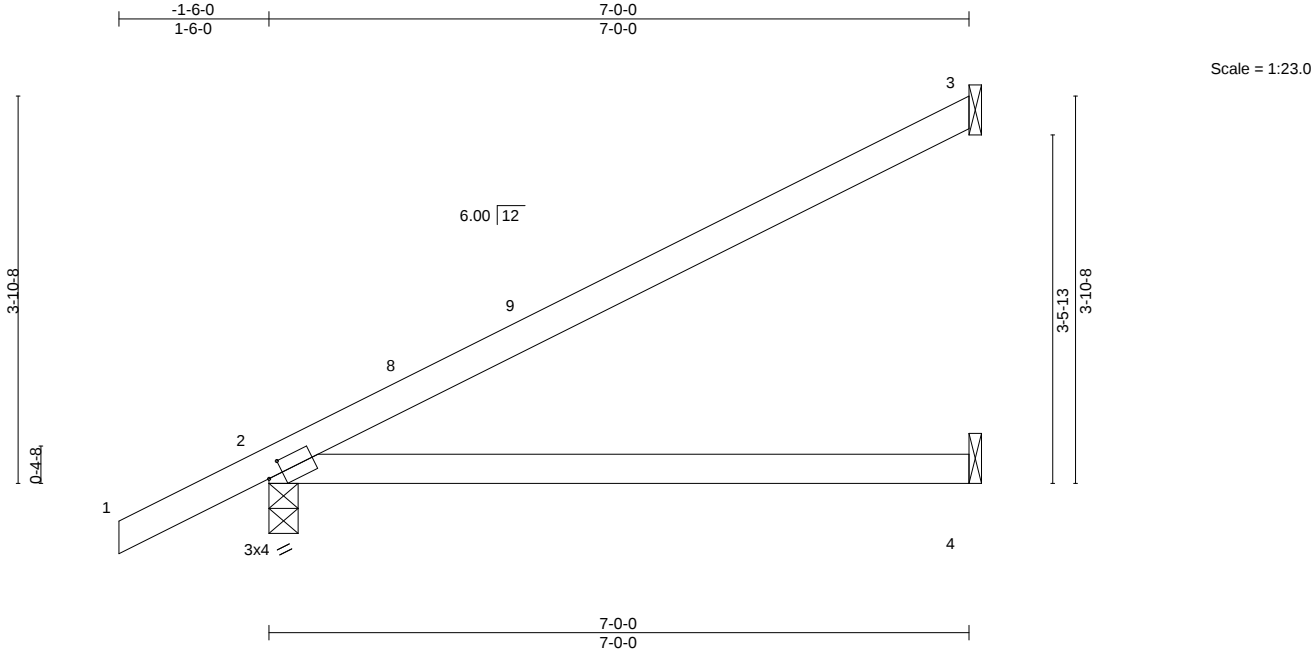


Plate Offsets (X,Y)--		[2:0-1-13,0-1-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.75		Vert(LL) 0.15 4-7 >572 240		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.53		Vert(CT) -0.22 4-7 >385 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.00		Horz(CT) -0.01 3 n/a n/a			
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS				Weight: 25 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=200(LC 12)
Max Uplift 3=-148(LC 12), 2=-132(LC 12), 4=-8(LC 12)
Max Grav 3=164(LC 1), 2=346(LC 1), 4=126(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=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=148, 2=132.

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June 3,2025

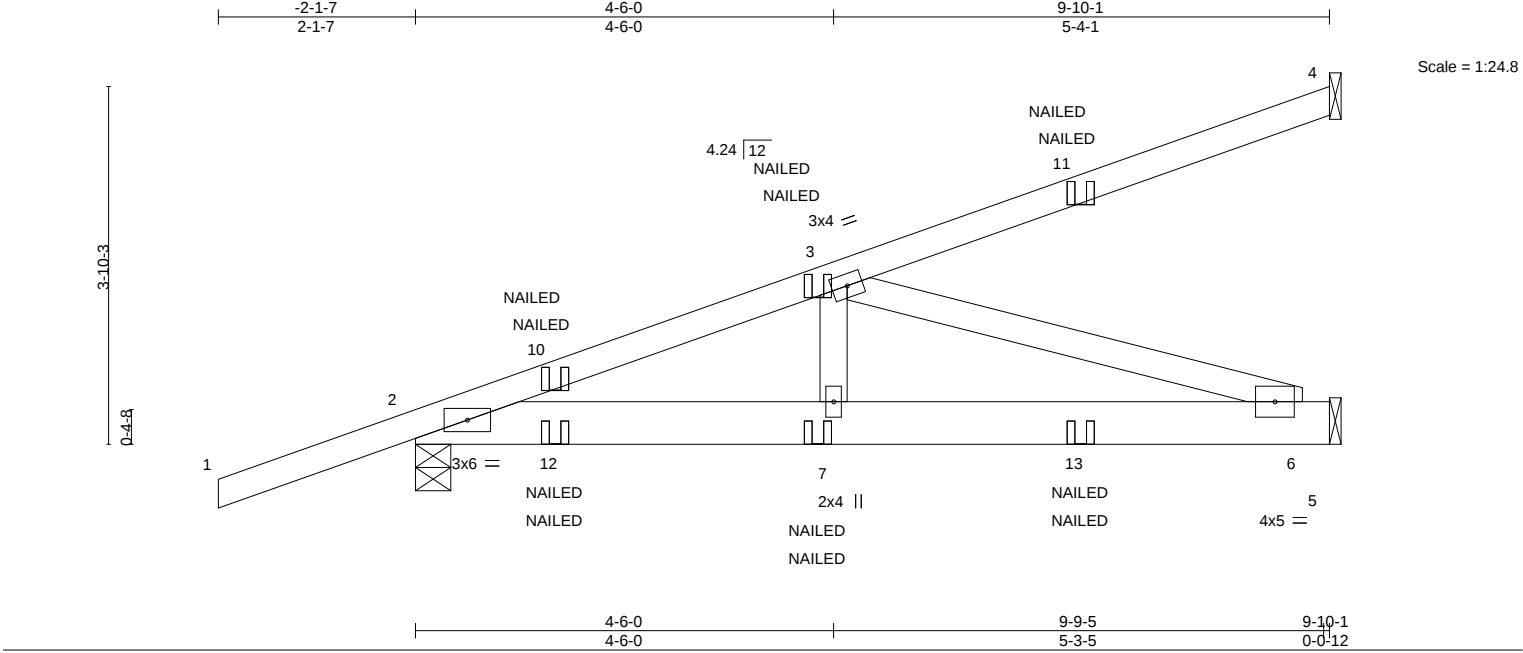
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498255
4681784	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:52 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-kh2SPnanXgc?P2NyP5jNAI_BiTf71lQOrkwE9VzAKAr



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) 0.03	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.32	Vert(CT) -0.05	6-7	>999	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: 51 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=217(LC 4)
Max Uplift 4=-137(LC 4), 2=-235(LC 4), 5=-125(LC 8)
Max Grav 4=147(LC 1), 2=527(LC 1), 5=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/314
BOT CHORD 2-7=-389/745, 6-7=-389/745
WEBS 3-7=0/271, 3-6=-780/408

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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) except (jt=lb) 4=137, 2=235, 5=125.
 - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 2-5=-20

Concentrated Loads (lb)

Vert: 7=-6(F=-3, B=-3) 11=-73(F=-36, B=-36) 13=-59(F=-29, B=-29)

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June 3,2025

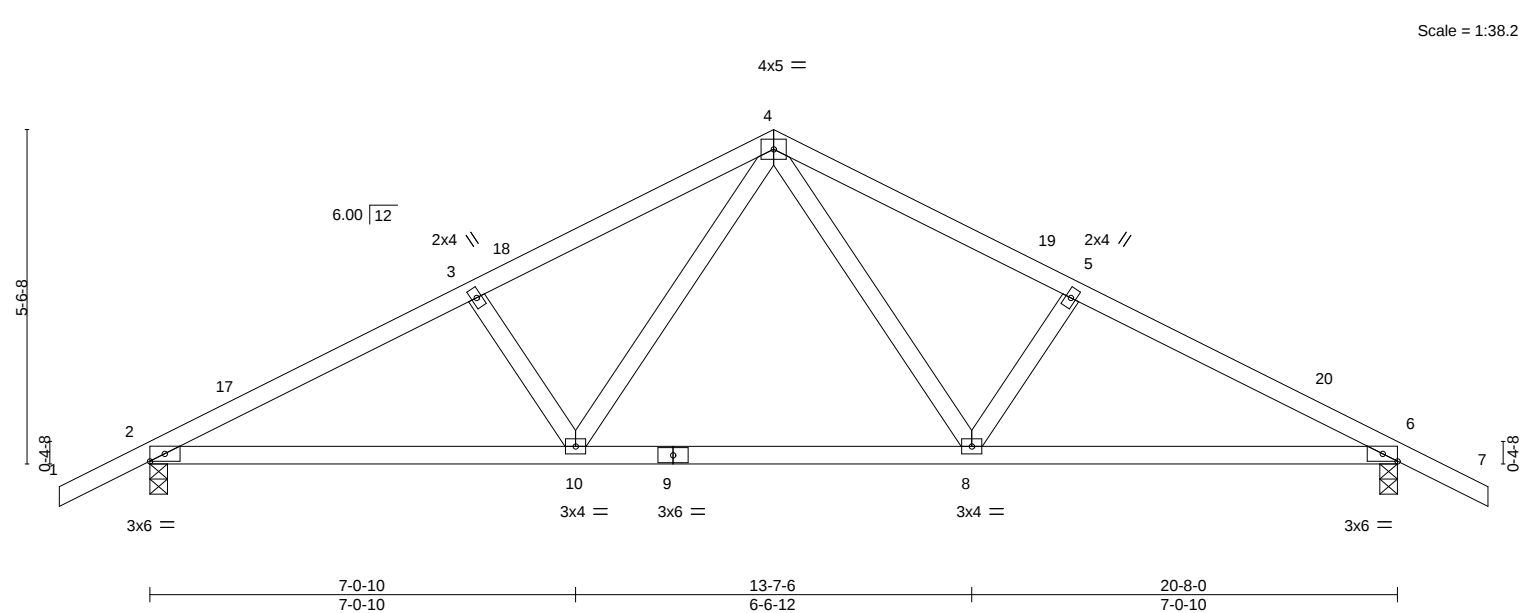
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Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498256
4681784	T01	Common	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:53 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.15 8-10 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.23 8-10 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.04 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 97 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-9 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-8-4 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=125(LC 12)
Max Uplift 2=-399(LC 12), 6=-399(LC 13)
Max Grav 2=977(LC 1), 6=977(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1616/745, 3-4=-1473/741, 4-5=-1473/741, 5-6=-1616/745
BOT CHORD 2-10=-568/1397, 8-10=-295/943, 6-8=-575/1397
WEBS 4-8=-296/607, 5-8=-265/253, 4-10=-296/607, 3-10=-265/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 22-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=399, 6=399.
 - 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=-60(F=-40), 8-14=-20

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

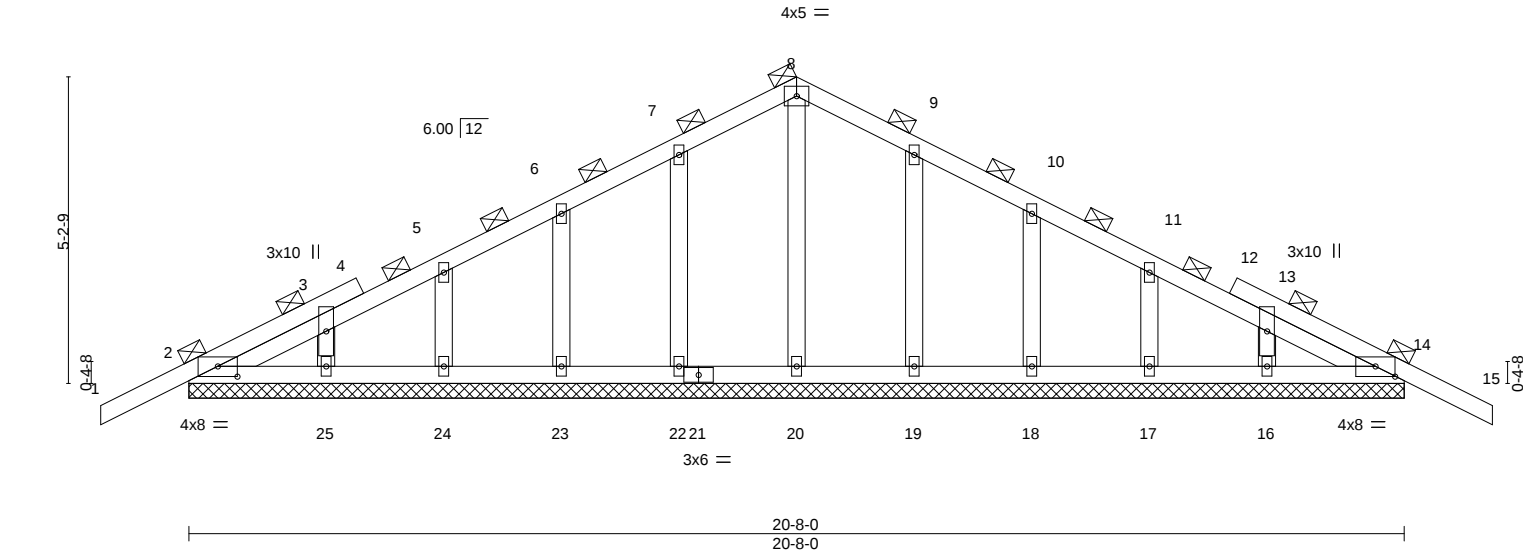
June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498257
4681784	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:54 2025 Page 1

ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-g4ACqTc13HsjeMXKWVlrGjd4dHHOwVlzhJ1PLDOzAKAp22-2-020-8-010-4-01-6-0

Scale = 1:39.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01 15 n/r 120	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01 15 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 14 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 111 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 20-8-0.
(lb) - Max Horz 2=118(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=18ft; Cat. II; Exp C; 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.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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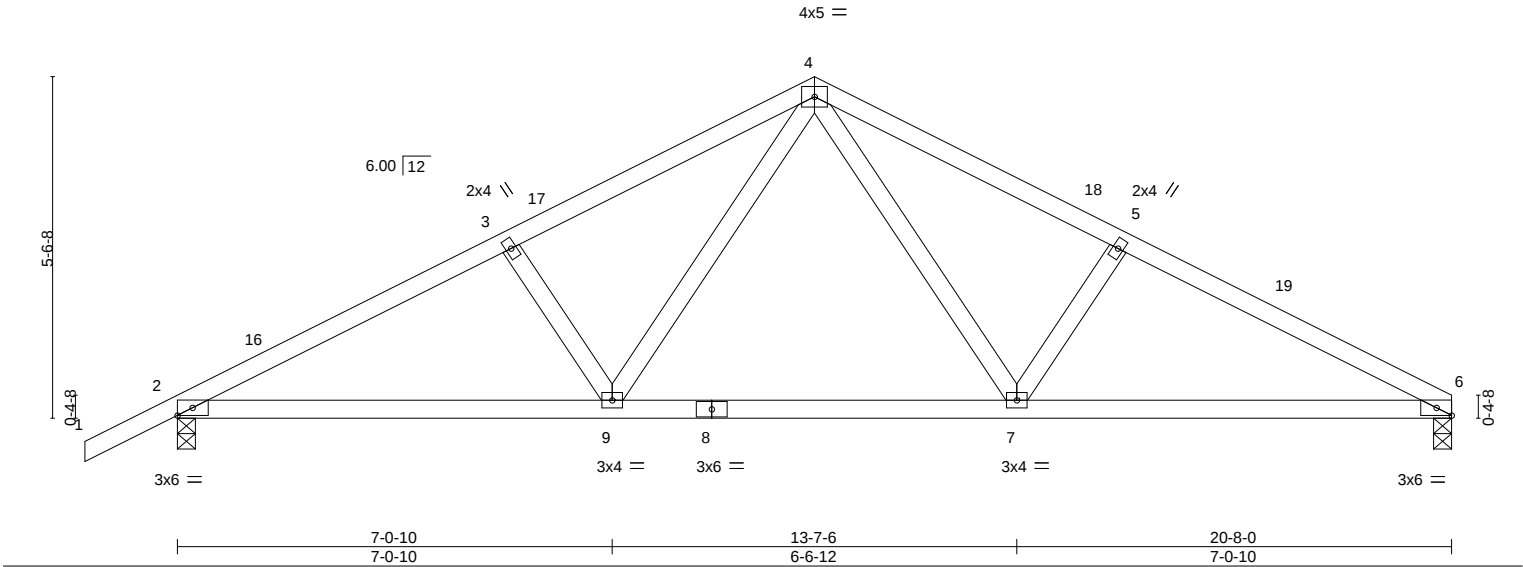
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498258
4681784	T02	Common	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:55 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-9Gkb2pdgqb_aGW6W4DG4owclNhZeE9KqYh9umqzAKAo
-1-6-0 5-4-15 10-4-0 15-3-1 20-8-0
1-6-0 5-4-15 4-11-1 4-11-1 5-4-15

Scale = 1:37.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.15	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.23				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.04				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 94 lb		FT = 20%	

LUMBER-				BRACING-			
TOP CHORD	2x4 SP No.2			TOP CHORD	Structural wood sheathing directly applied or 4-4-14 oc purlins.		
BOT CHORD	2x4 SP No.2			BOT CHORD	Rigid ceiling directly applied or 7-3-4 oc bracing.		
WEBS	2x4 SP No.3						

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=140(LC 16)
Max Uplift 6=346(LC 13), 2=400(LC 12)
Max Grav 6=893(LC 1), 2=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1622/765, 3-4=-1479/761, 4-5=-1491/783, 5-6=-1634/786
BOT CHORD 2-9=-614/1402, 7-9=-336/950, 6-7=-614/1416
WEBS 4-7=-305/623, 5-7=-274/260, 4-9=-292/606, 3-9=-266/253

- 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=18ft; Cat. II; Exp C; 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 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 20-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 6=346, 2=400.
 - 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, 4-6=-54, 9-13=-20, 7-9=-60(F=-40), 7-10=-20

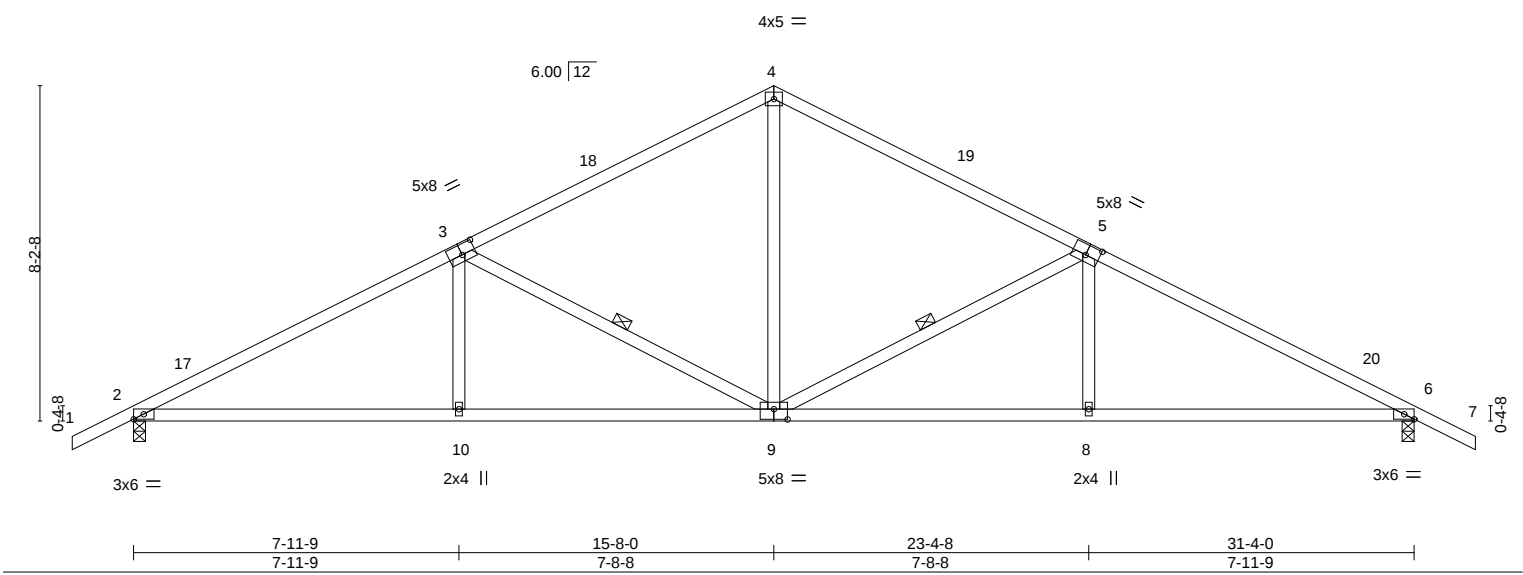
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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498259
4681784	T03	Common	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:55 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-9Gkb2pdgqb_aGW6W4DG4owcgGhZWE87qYh9umqzAKAo
1-6-0 7-11-9 15-8-0 23-4-8 31-4-0 32-10-0
1-6-0 7-11-9 7-8-8 7-8-8 7-11-9 1-6-0
Scale = 1:56.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.14 10-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.24 8-16 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.08 6 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 151 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-8-15 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-9, 3-9

REACTIONS.	
(size)	2=0-3-8, 6=0-3-8
Max Horz	2=-181(LC 13)
Max Uplift	2=-485(LC 12), 6=-485(LC 13)
Max Grav	2=1240(LC 1), 6=1240(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2083/745, 3-4=-1412/605, 4-5=-1412/605, 5-6=-2083/744
BOT CHORD	2-10=-705/1794, 9-10=-705/1793, 8-9=-558/1793, 6-8=-558/1794
WEBS	4-9=-264/801, 5-9=-720/468, 5-8=0/328, 3-9=-720/467, 3-10=0/328

- 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=18ft; Cat. II; Exp C; 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 15-8-0, Zone2 15-8-0 to 19-10-15, Zone1 19-10-15 to 32-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=485, 6=485.

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

June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498260
4681784	T03G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:57 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-5fsLTvewMCEHVpGvCeJYtLi7cUPti2M7??e?qjzAKAm 32-10-0, 1-6-0

Scale = 1:57.8

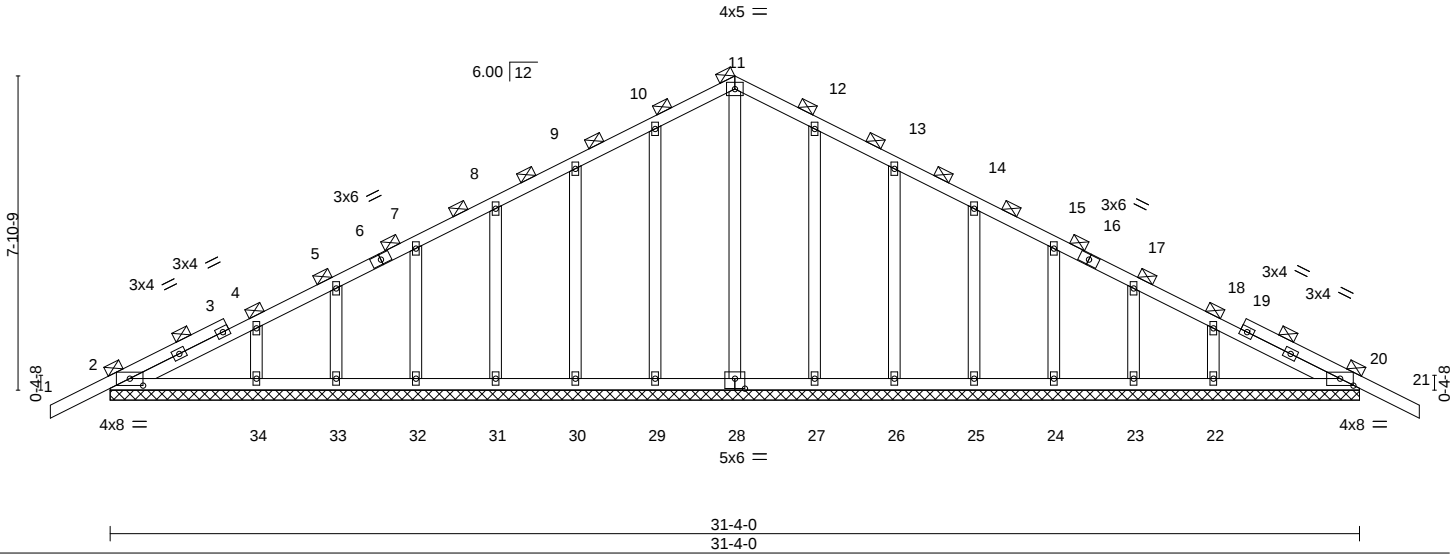


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [20:0-4-0,0-2-1], [28:0-3-0,0-3-0]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.17	in (loc) l/defl L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC 0.09	Vert(LL) -0.00 21 n/r 120	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.20	Vert(CT) -0.00 21 n/r 120	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S	Horz(CT) 0.01 20 n/a n/a	
						Weight: 191 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 31-4-0.
(lb) - Max Horz 2=174(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 27, 26, 25, 24, 23, 20 except 34=-111(LC 12), 22=-117(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-85/270, 10-11=-106/336, 11-12=-106/336, 12-13=-85/270

- 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=18ft; Cat. II; Exp C; 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, 29, 30, 31, 32, 33, 27, 26, 25, 24, 23, 20 except (it=lb) 34=111, 22=-117.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

June 3,2025

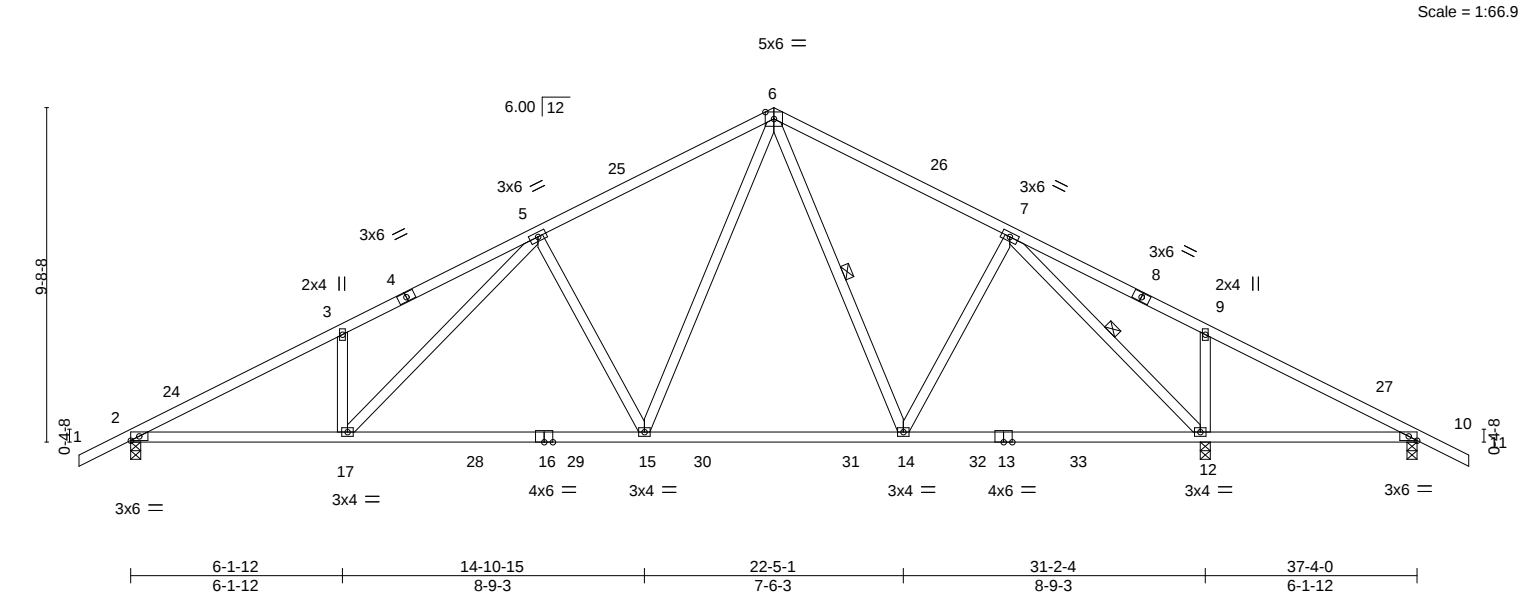
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498261
4681784	T04	Common	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:57 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-5fsLTVewMCEHvpGvCeJYtLi2jUDoiw57??e?qizAKAm



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.24 15-17 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.42 15-17 >891 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07 12 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 204 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-14, 7-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
Max Horz 2=212(LC 12)
Max Uplift 2=-489(LC 12), 12=-556(LC 13), 10=-131(LC 8)
Max Grav 2=1316(LC 2), 12=1830(LC 2), 10=200(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2344/765, 3-5=-2338/916, 5-6=-1527/629, 6-7=-1185/525, 7-9=-63/462, 9-10=-154/430
BOT CHORD 2-17=-778/2077, 15-17=-536/1570, 14-15=-196/1006, 12-14=-165/848, 10-12=-318/189
WEBS 7-14=-23/419, 7-12=-1693/499, 9-12=-326/302, 6-15=-369/882, 5-15=-552/442, 5-17=-351/737, 3-17=-293/290

- 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=18ft; Cat. II; Exp C; 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 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 38-10-0 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=489, 12=556, 10=131.

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

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

June 3,2025

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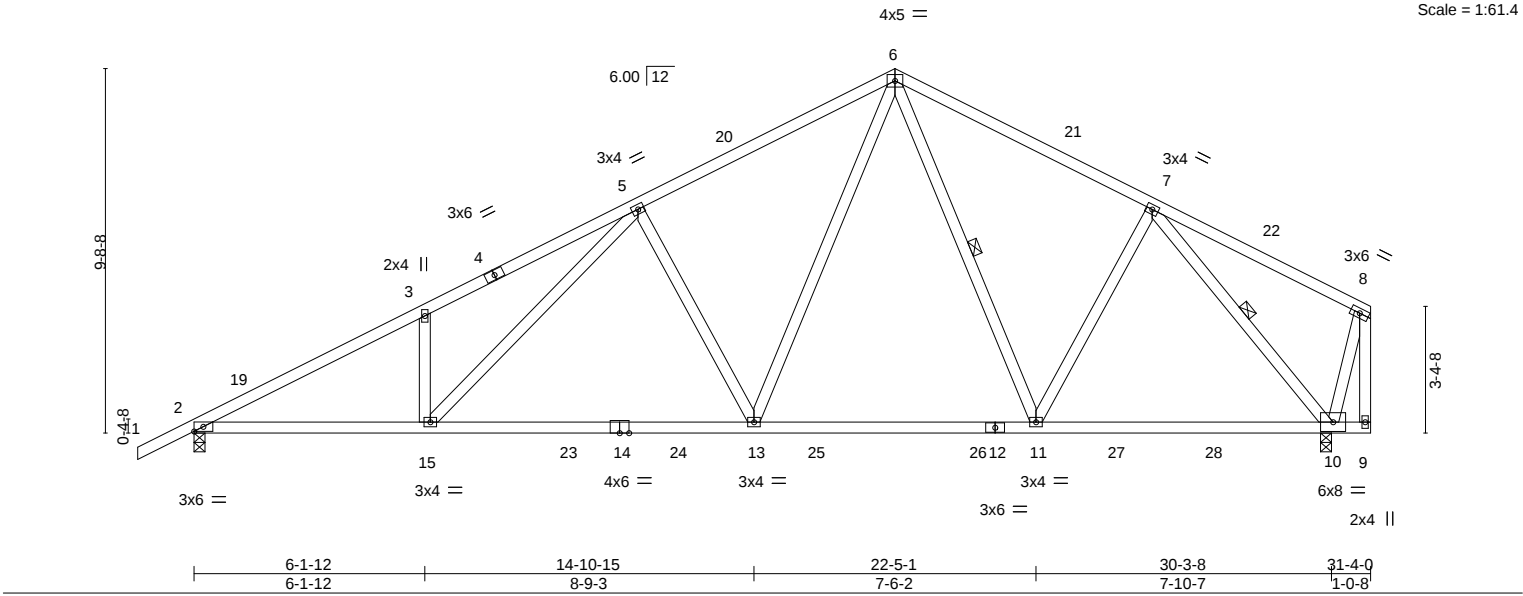
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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®

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Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498263
4681784	T05	Common	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:15:59 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-11z5tBgAuqU?i7PIJ3L0zmnO6ludAqeQSJ76vzbzAKAK



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.90	Vert(LL) -0.23 13-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.41 13-15 >890 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 10 n/a n/a		
	Code FBC2023/TPI2014			Weight: 186 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=313(LC 12)
Max Uplift 2=-489(LC 12), 10=-407(LC 13)
Max Grav 2=1320(LC 2), 10=1357(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2352/765, 3-5=-2346/916, 5-6=-1537/615, 6-7=-1199/527
BOT CHORD 2-15=-878/2054, 13-15=-636/1549, 11-13=-296/983, 10-11=-280/874
WEBS 3-15=-293/290, 5-15=-351/734, 5-13=-552/442, 6-13=-368/889, 7-11=-25/371, 7-10=-1346/497

- 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=18ft; Cat. II; Exp C; 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 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 31-2-4 zone; cantilever 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=489, 10=407.

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June 3,2025

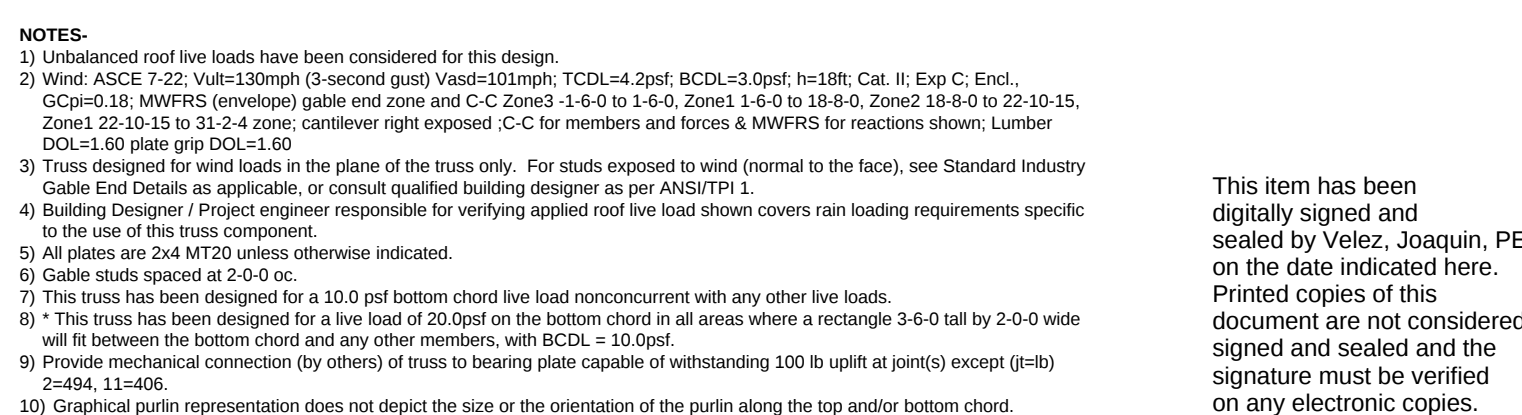
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:16:00 2025 Page 1
 ID:9Rsp_tPSl6LyCRUchohsVazGlxZ-VEXU5Wgof7csMH_UtmsFV_KyIIE_vHwZhsfR2zAKAj
 1-6-0 6-1-12 12-4-14 18-8-0 25-6-3 31-4-0
 1-6-0 6-1-12 6-3-2 6-3-2 6-10-3 5-9-13



June 3, 2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498265
4681784	T06	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:16:01 2025 Page 1					
ID:9Rsp_tPSI6LyCRUchohsVazGlxZ-zQ5slshQQRkj_RZgRUNU2BsduY4eiTjwdcDzUzAKAi									
-1-6-0	3-11-15	7-0-0	10-6-6	15-11-14	21-5-8	26-11-1	31-4-0		
1-6-0	3-11-15	3-0-1	3-6-6	5-5-8	5-5-9	5-5-9	4-4-15		

Scale = 1:55.3

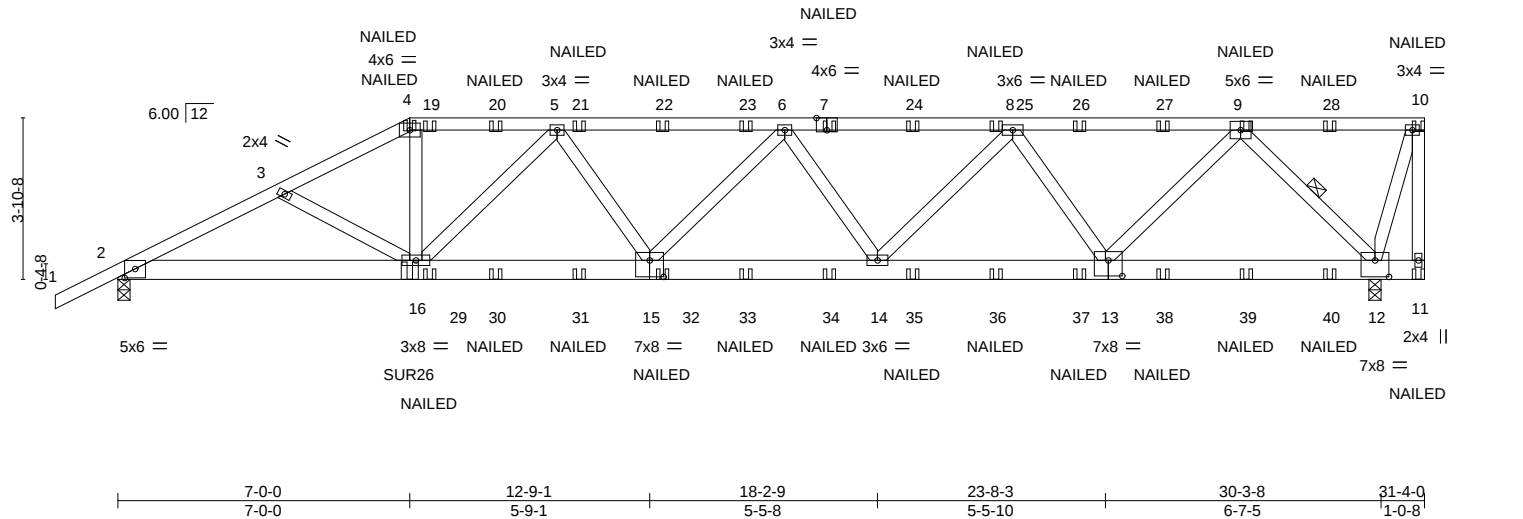


Plate Offsets (X,Y)--	[2:0-3-0,0-2-9], [7:0-3-0,Edge], [12:0-4-0,0-4-12], [13:0-4-0,0-4-8], [15:0-4-0,0-4-12]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.96	Vert(LL) 0.37 14-15 >990 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.84	Vert(CT) -0.48 14-15 >760 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.11 12 n/a n/a		
	Code FBC2023/TPI2014			Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-9-12 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 13-15: 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 4-4-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-12

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
Max Horz 2=203(LC 8)	
Max Uplift 2=1223(LC 8), 12=1616(LC 5)	
Max Grav 2=2287(LC 1), 12=2739(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4566/2505, 3-4=-4394/2479, 4-5=-3969/2271, 5-6=-5190/2999, 6-8=-5029/2920, 8-9=-3475/2002
BOT CHORD	2-16=-2315/4047, 15-16=-2889/4908, 14-15=-3151/5324, 13-14=-2580/4347, 12-13=-1212/2001
WEBS	4-16=-802/1604, 5-16=-1388/910, 5-15=-223/553, 6-14=-552/431, 8-14=-499/1002, 8-13=-1591/1056, 9-13=-1175/2194, 9-12=-2982/1852

- 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=18ft; Cat. II; Exp C; 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=1223, 12=1616.
 - Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
-----------------------	--

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Date:

June 3,2025

Job	Truss	Truss Type	Qty	Ply	DOUG DAVID
4681784	T06	Half Hip Girder	1	1	T37498265
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.830 s Apr 24 2025
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Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-70(B) 7=-110(B) 10=-133(B) 11=-73(B) 16=-273(B) 9=-110(B) 19=-110(B) 20=-110(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-110(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-64(B) 30=-64(B) 31=-64(B) 32=-64(B) 33=-64(B) 34=-64(B) 35=-64(B) 36=-64(B) 37=-64(B) 38=-64(B) 39=-64(B) 40=-64(B)

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Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498266
4681784	T07	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:16:01 2025 Page 1
ID:9Rsp_tPSi6LyCRUchohsVazGlxZ-zQ5slshQQRkj_RZgRUNU2Bsht5b2emXjwcdDzUzAKAi 23-0-7 31-4-0 8-3-9
1-6-0 4-9-8 9-0-0 16-1-2 23-0-7 31-4-0 8-3-9
1-6-0 4-9-8 4-2-8 7-1-2 6-11-5

Scale = 1:55.3

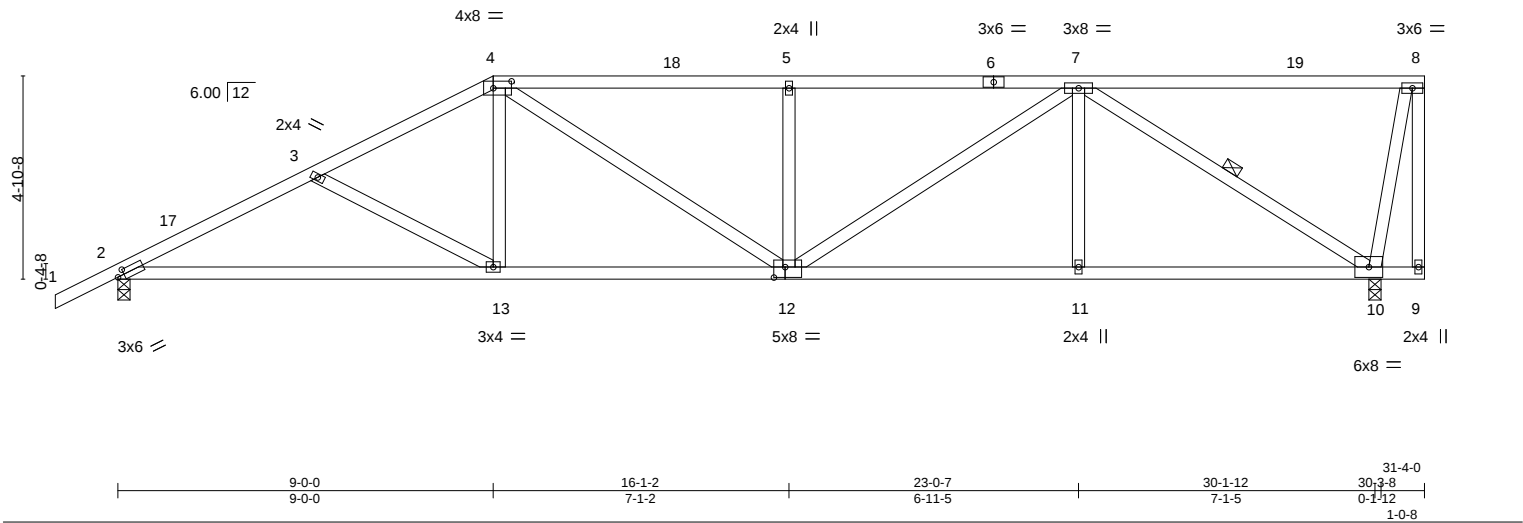


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [4:0-5-4,0-2-0], [12:0-3-4,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.15 13-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.32 13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-10

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=251(LC 12)
	Max Uplift 2=-395(LC 12), 10=-539(LC 9)
	Max Grav 2=1196(LC 1), 10=1193(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2049/737, 3-4=-1799/688, 4-5=-1871/824, 5-7=-1879/830
BOT CHORD	2-13=-779/1804, 12-13=-645/1571, 11-12=-626/1391, 10-11=-626/1391
WEBS	3-13=-274/257, 4-13=-72/393, 4-12=-265/459, 5-12=-388/290, 7-12=-243/583, 7-11=0/291, 7-10=-1662/768

- 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=18ft; Cat. II; Exp C; 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 31-2-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=395, 10=539.

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Job	Truss	Truss Type	Qty	Ply	DOUG DAVID	T37498267
4681784	V01	GABLE	1	1	Job Reference (optional)	

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

8.830 s Apr 24 2025 MiTek Industries, Inc. Mon Jun 2 12:16:02 2025 Page 1
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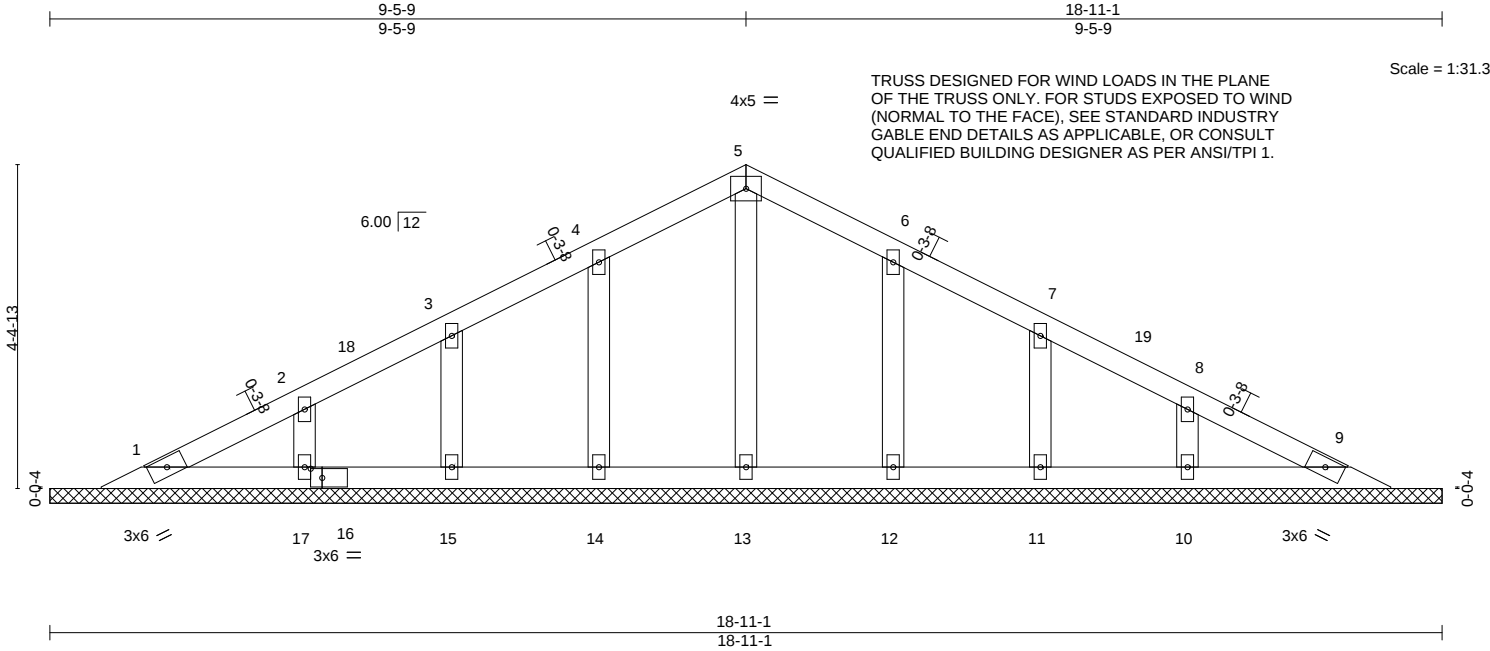


Plate Offsets (X,Y)-- [16:0-1-14,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a - n/a	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a - n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 9 n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S				Weight: 75 lb	FT = 20%

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

REACTIONS. All bearings 18-11-1.
(lb) - Max Horz 1=86(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 12, 11 except 17=-112(LC 12), 10=-112(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 17, 12, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-3-7 to 4-3-7, Zone1 4-3-7 to 9-5-9, Zone2 9-5-9 to 13-5-9, Zone1 13-5-9 to 17-7-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 12, 11 except (jt=lb) 17=112, 10=112.

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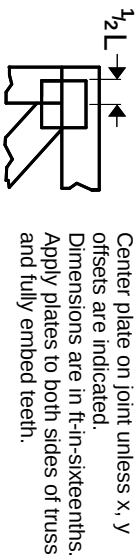
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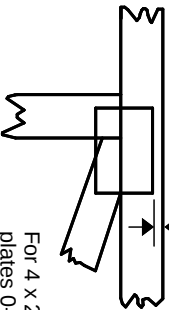
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

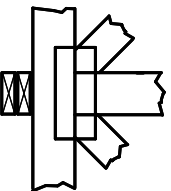
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

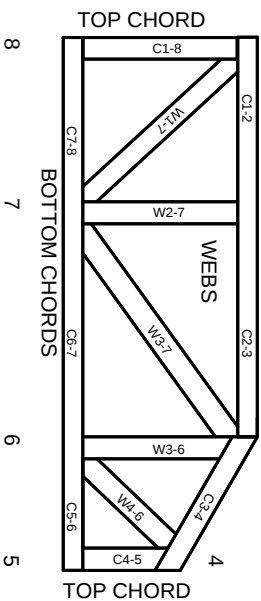
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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