



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

RE: 4335343 - DWC - LOT 22 TW

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

Site Information:

Customer Info: DWC CONT. Project Name: Spec Hse Model: Custom
Lot/Block: 22 Subdivision: Thornwood
Address: 312 SW Thistlewood Lane, N/A
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: FRC2023/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 20 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	T35576561	T01	11/18/24	15	T35576575	T12	11/18/24
2	T35576562	T01G	11/18/24	16	T35576576	T13	11/18/24
3	T35576563	T02	11/18/24	17	T35576577	T13G	11/18/24
4	T35576564	T02G	11/18/24	18	T35576578	T14	11/18/24
5	T35576565	T03	11/18/24	19	T35576579	T14G	11/18/24
6	T35576566	T04	11/18/24	20	T35576580	T15	11/18/24
7	T35576567	T05	11/18/24				
8	T35576568	T06	11/18/24				
9	T35576569	T07	11/18/24				
10	T35576570	T08	11/18/24				
11	T35576571	T09	11/18/24				
12	T35576572	T10	11/18/24				
13	T35576573	T11	11/18/24				
14	T35576574	T11G	11/18/24				

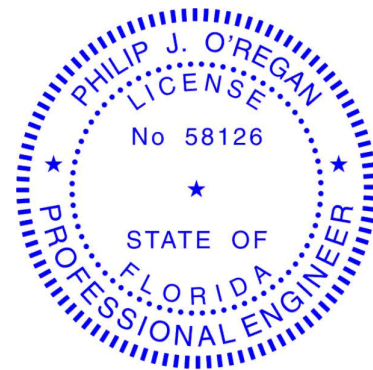


This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders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



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

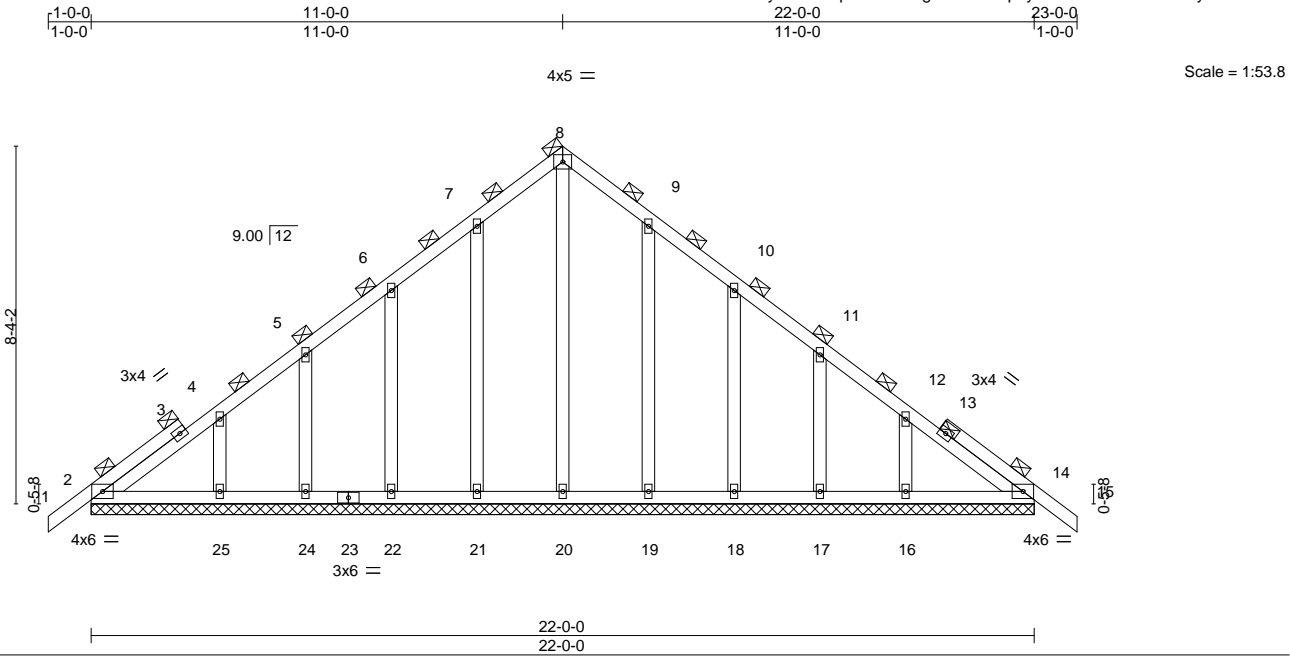
November 18, 2024

ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576562
4335343	T01G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:13 2024 Page 1
ID:cLQQfHVaoLGzEOHNaZzGxbyTax0-AapW0WO3FglOAWBK7poycl3ZlAP??cu7od7bzCylxUW



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 0.07	Vert(LL)	-0.00	14	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	14	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	14	n/a	n/a	
BCDL 10.0	Code FRC2023/TPI2014		Matrix-S						
								Weight: 144 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=-213(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 25, 19, 18, 17 except 16=-103(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 25, 19, 18, 17 except (jt=lb) 16=103.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Date:

November 18,2024

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

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

MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576565
4335343	T03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:16 2024 Page 1
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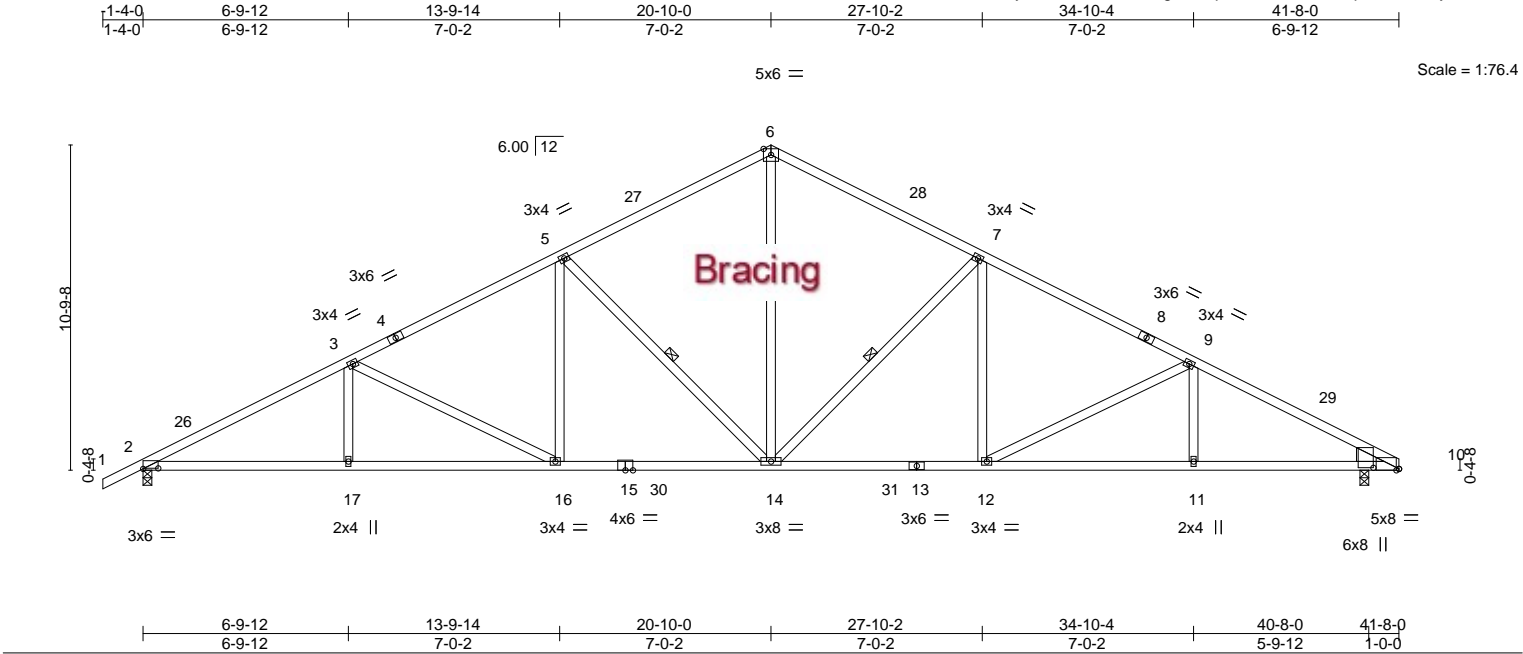


Plate Offsets (X,Y)--		[2:0-6-0,0-0-3], [10:0-1-1,Edge], [10:0-0-7,0-10-3]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 1.00		Vert(LL)	-0.28 11-12	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.90		Vert(CT)	-0.49 11-12	>999	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.71		Horz(CT)	0.13 10	n/a	n/a		
BCDL 10.0		Code FRC2023/TPI2014		Matrix-MS						Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 13-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-4-7 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 7-14
WEDGE	
Right: 2x6 SP No.2	

REACTIONS.	(size) 2=0-3-8, 10=0-3-8 Max Horz 2=196(LC 12) Max Uplift 2=-423(LC 12), 10=-405(LC 13) Max Grav 2=1711(LC 2), 10=1734(LC 2)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3167/722, 3-5=-2570/599, 5-6=-1914/498, 6-7=-1917/505, 7-9=-2467/572, 9-10=-2714/622
BOT CHORD	2-17=-742/2782, 16-17=-742/2782, 14-16=-501/2239, 12-14=-331/2171, 11-12=-466/2343, 10-11=-466/2343
WEBS	3-17=0/277, 3-16=-610/269, 5-16=-74/560, 5-14=-846/356, 6-14=-292/1371, 7-14=-759/335, 7-12=-43/437, 9-12=-254/177

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 41-8-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=423, 10=405.

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
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Date:

November 18,2024

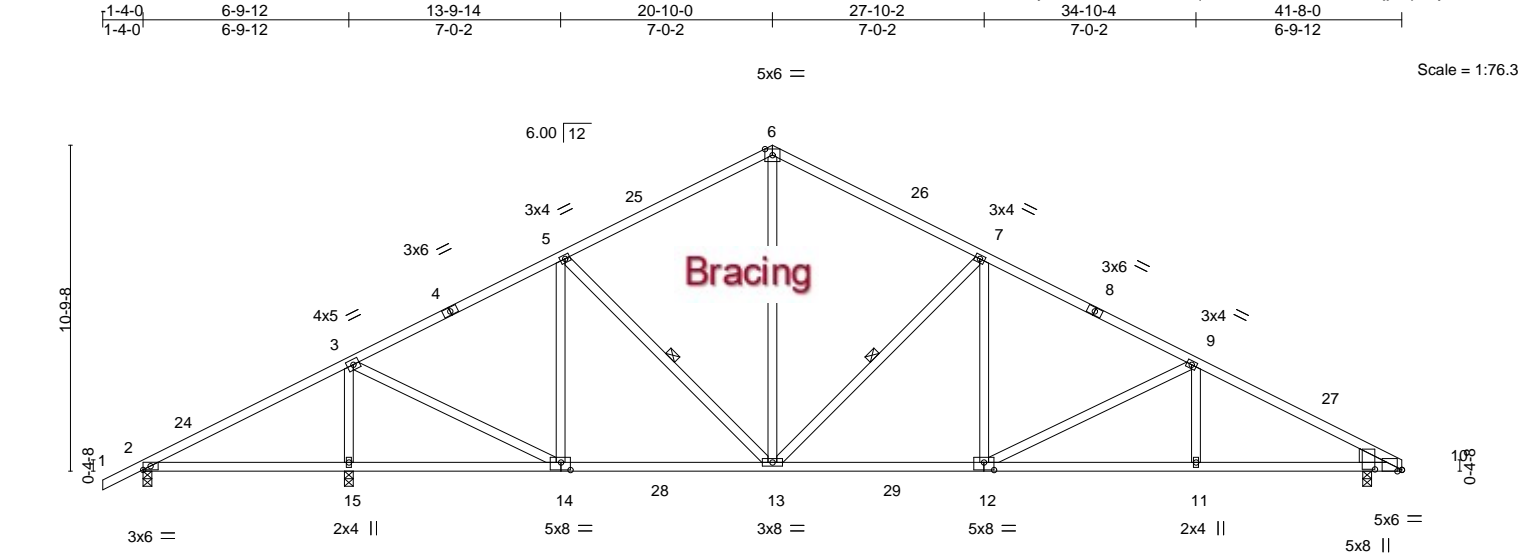
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576566
4335343	T04	COMMON	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:17 2024 Page 1
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Plate Offsets (X,Y)-- [10:0-0-3,0-10-11], [10:0-1-13,Edge], [12:0-4-0,0-3-0], [14:0-3-12,0-3-0]											
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 0.76		Vert(LL) -0.18 11-12	>999	240		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.70		Vert(CT) -0.33 11-12	>999	180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.62		Horz(CT) 0.05 10	n/a	n/a			
BCDL 10.0		Code FRC2023/TPI2014		Matrix-MS						Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except*
12-14: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 7-13

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=196(LC 16)
Max Uplift 2=-131(LC 28), 15=-480(LC 12), 10=-353(LC 13)
Max Grav 2=143(LC 25), 15=2074(LC 2), 10=1386(LC 2)

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

TOP CHORD 2-3=-170/722, 3-5=-1075/290, 5-6=-1179/387, 6-7=-1182/362, 7-9=-1750/465,
9-10=-2084/527
BOT CHORD 2-15=-603/251, 14-15=-603/251, 13-14=-191/923, 12-13=-210/1528, 11-12=-382/1791,
10-11=-382/1791
WEBS 3-15=-1783/498, 3-14=-249/1631, 5-14=-512/159, 6-13=-187/711, 7-13=-773/339,
7-12=-47/458, 9-12=-315/192

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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 41-8-0 zone; cantilever right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=131, 15=480, 10=353.

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:

November 18,2024

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576567
4335343	T05	COMMON	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:17 2024 Page 1

ID:cLQQfHVaoLGzEOHNaZzGxbyTax0-2L21suRZJuoqe7U5MfsunbD71ne3xMUjF5p6zylxUS

1-4-0 6-9-12 13-9-4 20-10-0 27-10-12 33-8-4 41-8-0

1-4-0 6-9-12 6-11-8 7-0-12 7-0-12 5-9-8 7-11-12

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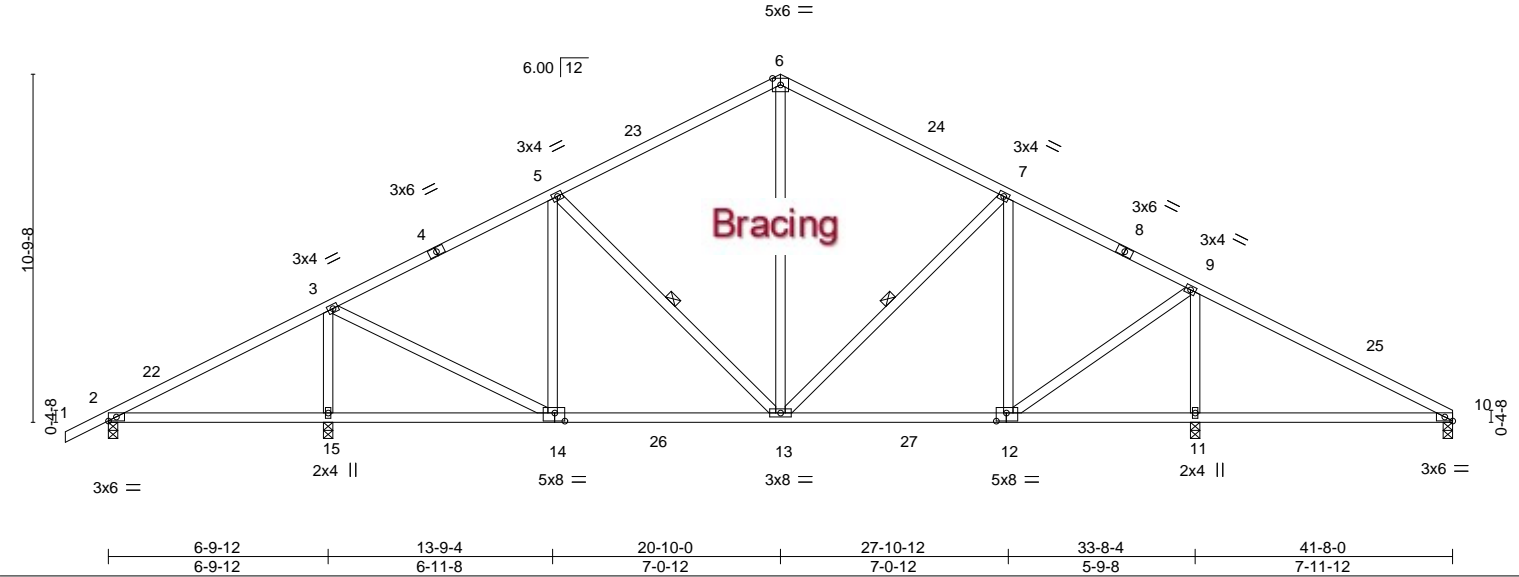


Plate Offsets (X,Y)--	[10:0-2-15,Edge], [12:0-3-12,0-3-0], [14:0-3-12,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.17 11-21	>562	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.27 11-21	>353	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code FRC2023/TPI2014		Matrix-MS					Weight: 229 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-10 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 5-13, 7-13

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=196(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-114(LC 8), 15=-386(LC 12), 11=-333(LC 13),
10=-124(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=296(LC 25), 15=1435(LC 2), 11=1470(LC 2),
10=283(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-989/274, 5-6=-862/318, 6-7=-860/292, 7-9=-868/280
BOT CHORD 13-14=-177/849, 12-13=-58/716
WEBS 3-15=-1157/408, 3-14=-148/930, 6-13=-115/410, 7-12=-318/109, 9-12=-117/854,
9-11=-1173/341

- 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 1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 41-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 114 lb uplift at joint 2, 386 lb uplift at joint 15, 333 lb uplift at joint 11 and 124 lb uplift at joint 10.

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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 18,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576568
4335343	T06	COMMON	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:18 2024 Page 1

ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-WYcP3DSC4CwhGH3HwMO7Joml5B_fgpsivrMePyIxUR

1-4-0 6-9-12 13-9-14 20-10-0 27-10-2 33-8-4 41-8-0 43-0-0

1-4-0 6-9-12 7-0-2 7-0-2 7-0-2 5-10-2 7-11-12 1-4-0

Scale = 1:72.0

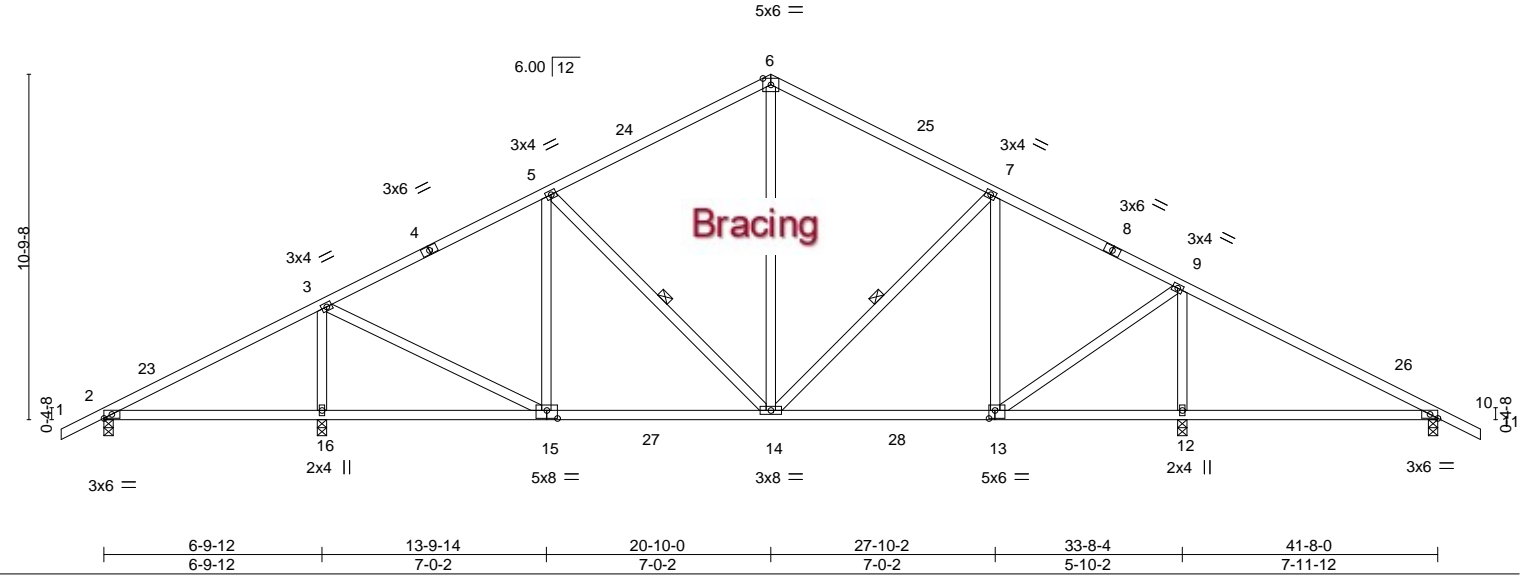


Plate Offsets (X,Y)--										[10:0-2-15,Edge], [13:0-2-4,0-3-0], [15:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.58	Vert(LL)	0.16	12-22	>586	240	MT20	244/190					
TCDL	7.0	Lumber DOL 1.25				BC	0.54	Vert(CT)	-0.26	12-22	>372	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.41	Horz(CT)	0.02	12	n/a	n/a							
BCDL	10.0	Code FRC2023/TPI2014				Matrix-MS						Weight: 231 lb		FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-7 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 5-14, 7-14

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-117(LC 8), 16=-384(LC 12), 12=-327(LC 13), 10=-140(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=296(LC 25), 16=1435(LC 2), 12=1470(LC 2), 10=357(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-988/279, 5-6=-861/321, 6-7=-858/294, 7-9=-864/284
BOT CHORD 14-15=-168/855, 13-14=-50/715
WEBS 3-16=-1157/406, 3-15=-144/928, 6-14=-120/412, 7-13=-321/108, 9-13=-116/861, 9-12=-1178/339

- 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 1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 117 lb uplift at joint 2, 384 lb uplift at joint 16, 327 lb uplift at joint 12 and 140 lb uplift at joint 10.

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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:

November 18,2024

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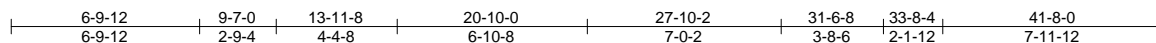
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8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:19 2024 Page 1

ID:c| QOfHVap| GzE0HNaZzGxbvTax0:- kAnGZTqrW2X|lBe|l|l4vMs0.|l|mb| QPCr0AZawAsv|x|lQ



Scale = 1:83.3



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

TOP CHORD 2-3=-339/190, 3-5=-639/220, 5-6=-680/283, 6-7=-677/255, 7-8=-616/262, 8-10=-5/530,
10-11=0/357

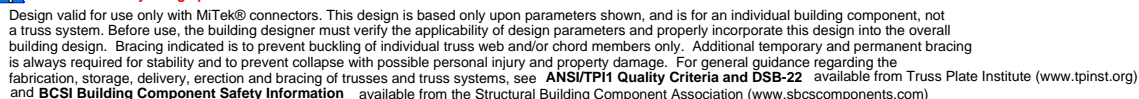
BOT CHORD 2-22=-131/282, 21-22=-129/277, 5-19=-409/162, 17-19=-108/576, 16-17=-24/532

WEBS 3-21=-1388/444, 19-21=-617/203, 3-19=-269/1211, 6-17=-86/292, 7-16=-359/98,
8-16=-83/745, 8-13=-1197/242, 10-13=-312/199

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) $V_{asd}=101\text{mph}$; $TCDL=4.2\text{psf}$; $BCDL=3.0\text{psf}$; $h=20\text{ft}$; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0 to 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, with $BCDL = 10.0\text{psf}$.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 2, 131 lb uplift at joint 11, 367 lb uplift at joint 21 and 333 lb uplift at joint 13.

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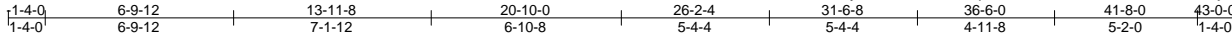
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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576570
4335343	T08	ROOF SPECIAL	2	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:19 2024 Page 1

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5x6 =

Scale = 1:83.3

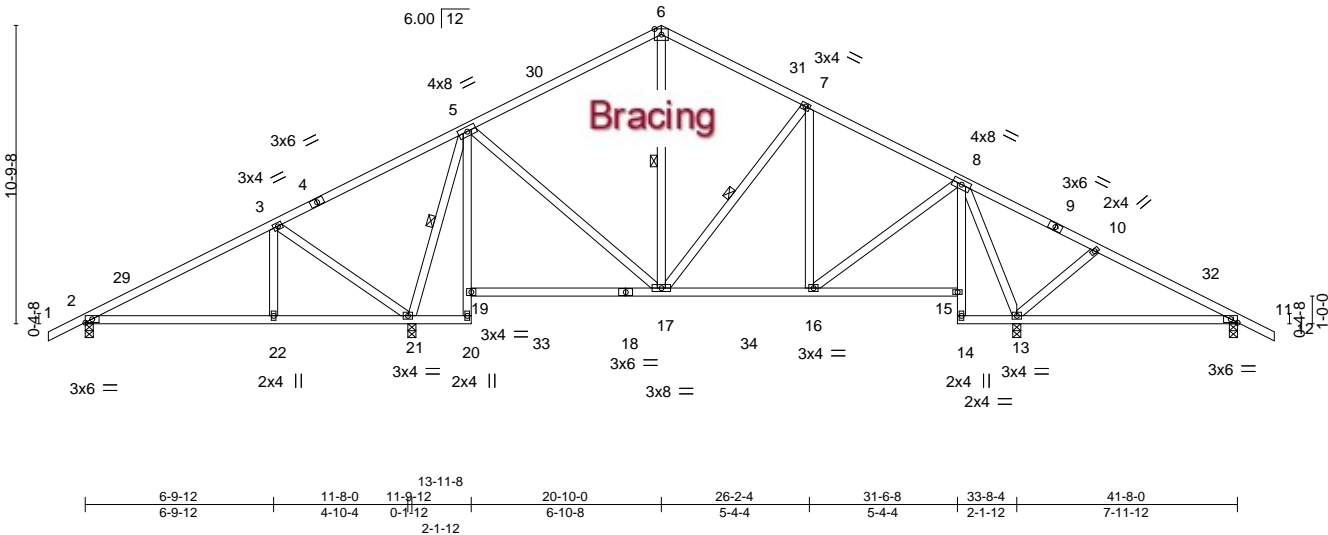


Plate Offsets (X,Y)--		[11:0-2-15,Edge]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.53	Vert(LL)	-0.09	17-19	>999	240		PLATES	
TCDL	7.0	Lumber DOL		1.25		BC	0.44	Vert(CT)	-0.16	17-19	>999	180		GRIP	
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.55	Horz(CT)	0.04	13	n/a	n/a		Weight: 248 lb	
BCDL	10.0	Code FRC2023/TPI2014				Matrix-MS								FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-20,8-14: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-21, 6-17, 7-17

REACTIONS.

All bearings 0-3-8.
(lb) - Max Horz 2=185(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=186(LC 8), 11=134(LC 8), 21=393(LC 12), 13=337(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=384(LC 25), 21=1579(LC 2), 13=1379(LC 2)

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

TOP CHORD 2-3=285/302, 3-5=55/605, 5-6=445/309, 6-7=423/294, 7-8=528/294, 8-10=0/458, 10-11=0/292
BOT CHORD 16-17=2/425
WEBS 3-22=131/267, 3-21=588/318, 5-21=1179/277, 5-17=0/455, 8-16=29/496, 8-13=1006/257, 10-13=297/188

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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 43-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 186 lb uplift at joint 2, 134 lb uplift at joint 11, 393 lb uplift at joint 21 and 337 lb uplift at joint 13.

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:

November 18,2024

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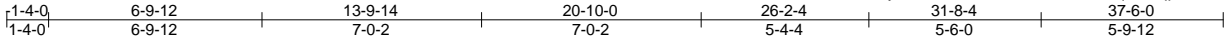
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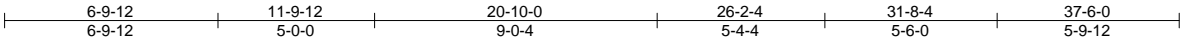
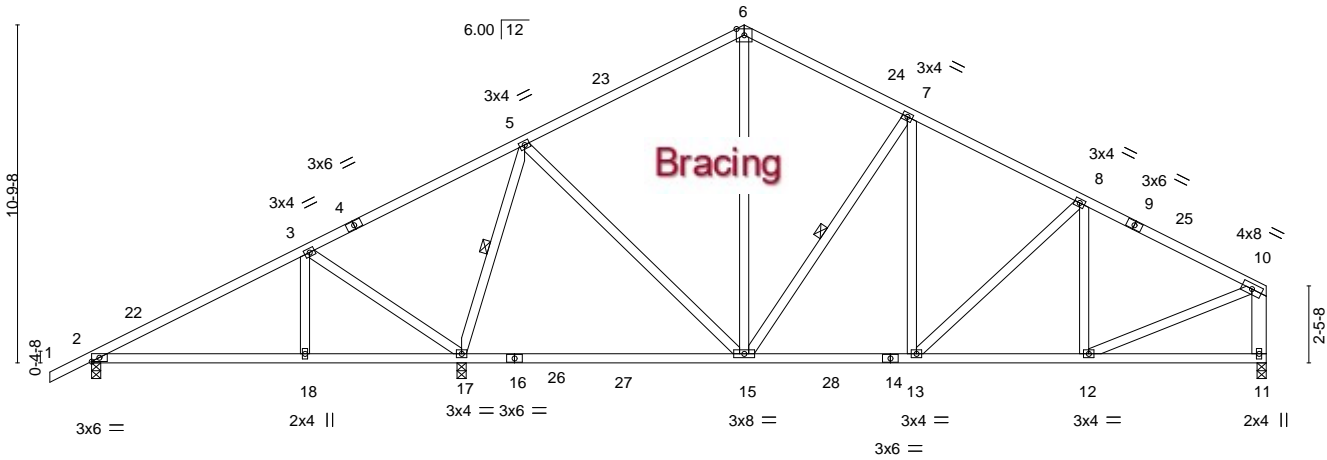
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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576572
4335343	T10	COMMON	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:21 2024 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-x7IYhFU4M7IF7kosbVxqxROqpOz2tAhJet30FkylxUO



5x6 = Scale = 1:73.6



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 0.55	Vert(LL)	-0.23 15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.37 15-17	>819	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code FRC2023/TP12014		Matrix-MS					Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 7-15

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=244(LC 12)
Max Uplift 2=-115(LC 9), 17=-450(LC 12), 11=-245(LC 13)
Max Grav 2=414(LC 25), 17=1755(LC 2), 11=965(LC 2)

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

TOP CHORD 2-3=-329/144, 3-5=-122/359, 5-6=-647/270, 6-7=-625/255, 7-8=-915/295,
8-10=-1019/272, 10-11=-876/259
BOT CHORD 2-18=-170/252, 17-18=-170/252, 13-15=-94/769, 12-13=-184/866
WEBS 3-17=-534/333, 5-17=-1189/360, 5-15=-76/616, 6-15=-109/300, 7-15=-476/256,
7-13=-57/274, 10-12=-175/879

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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 20-10-0, Zone2 20-10-0 to 25-0-15, Zone1 25-0-15 to 37-3-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 115 lb uplift at joint 2, 450 lb uplift at joint 17 and 245 lb uplift at joint 11.

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Date:

November 18,2024

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

TOP CHORD 2-3=-2197/496, 3-5=-2250/517, 5-6=-1804/487, 6-7=-1803/471, 7-9=-2464/584,
9-10=-3053/705, 2-18=-1605/410

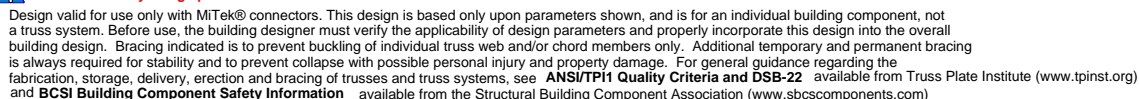
BOT CHORD 16-17=-518/1947, 14-16=-419/1956, 13-14=-301/2132, 12-13=-532/2681,
10-12=-532/2681

WEBS 3-17=-320/136, 5-16=-632/25, 5-14=-612/299, 6-14=-275/1266, 7-14=-834/357,
7-13=-77/556, 9-13=-605/269, 9-10=0/274, 2-17=-382/1917

- 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'-4-0 to 1'-8-0, Zone1 1'-8-0 to 1'-10-0, Zone2 1'-10-0 to 2'-3-0, Zone1 2'-3-0 to 4'-1-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 402 lb uplift at joint 18 and 415 lb uplift at joint 10.

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576574
4335343	T11G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:22 2024 Page 1

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39-8-0

41-0-0

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18-10-0

20-10-0

1-4-0

Scale = 1:72.8

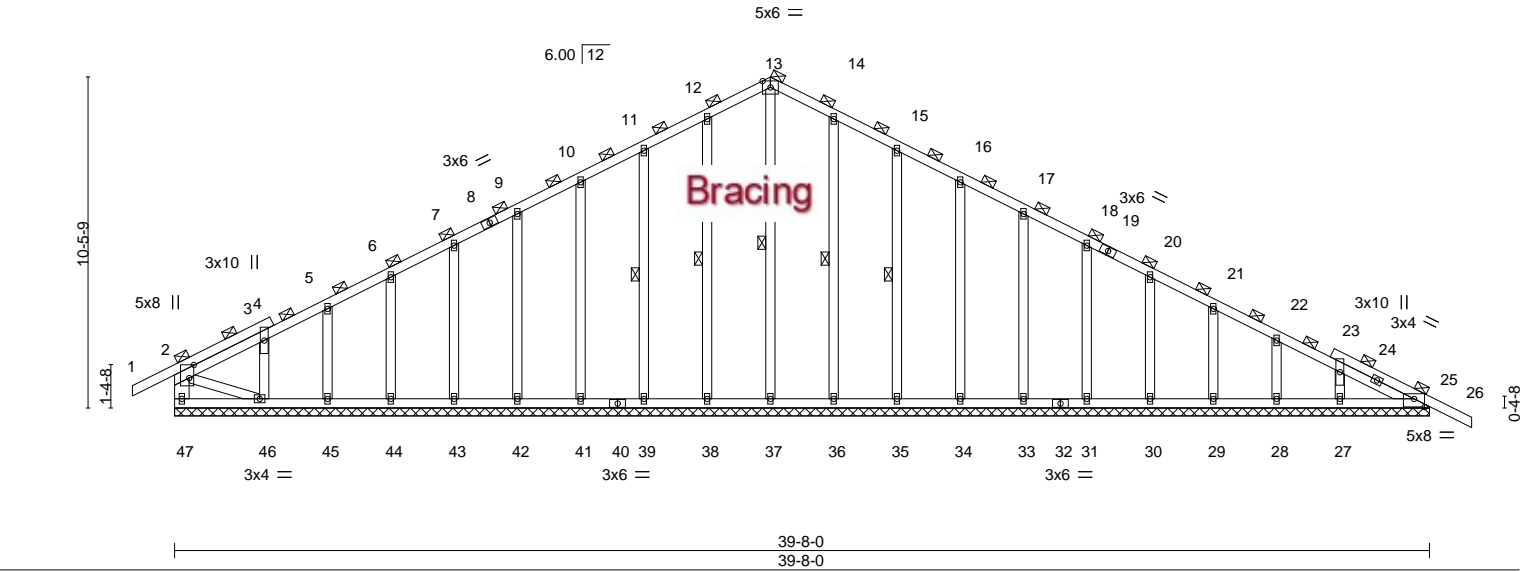


Plate Offsets (X,Y)--		[2:0-5-0,0-1-12], [25:0-4-0,0-3-1]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.14		Vert(LL) -0.00 26		n/r 120		MT20 244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.05		Vert(CT) -0.00 26		n/r 120			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.11		Horz(CT) 0.01 25		n/a n/a			
BCDL 10.0		Code FRC2023/TPI2014		Matrix-S						Weight: 289 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x6 SP No.2 *Except*	6-0-0 oc bracing: 46-47.
2-46: 2x4 SP No.3	WEBS 1 Row at midpt 13-37, 12-38, 11-39, 14-36, 15-35
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 39-8-0.
(lb) - Max Horz	47=182(LC 17)
Max Uplift	All uplift 100 lb or less at joint(s) 47, 38, 39, 41, 42, 43, 44, 45, 36, 35, 34, 33, 31, 30, 29, 28, 27, 25 except 46=148(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 47, 37, 38, 39, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 31, 30, 29, 28, 27, 25

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	11-12=-103/262, 12-13=-120/306, 13-14=-120/306, 14-15=-103/262

- 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 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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) 47, 38, 39, 41, 42, 43, 44, 45, 36, 35, 34, 33, 31, 30, 29, 28, 27, 25 except (jt=lb) 46=148.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by 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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November 18,2024

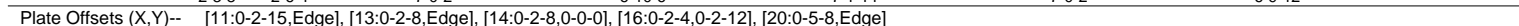
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
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8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:23 2024 Page 1

ID:cLQQfHVapLGzE0HNaZzGxbvTax0-tVPI6xWKukZzM2vFivzI0sTAACbpLxGb5BY7JdvIxmUM



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

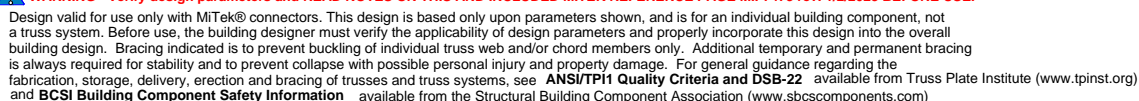
TOP CHORD
2-3=-2970/813, 3-4=-2980/732, 4-6=-2585/595, 6-7=-1939/494, 7-8=-1933/495,
8-10=-2408/584, 10-11=-3012/712, 2-22=-1569/473

BOT CHORD
19-20=-850/2820, 17-19=-741/2688, 16-17=-500/2255, 7-16=-284/1384, 12-13=-561/2645,
11-12=-561/2645

WEBS
4-17=-475/256, 6-17=-40/471, 6-16=-782/339, 13-16=-313/1952, 8-16=-600/324,
8-13=-33/296, 10-13=-621/277, 10-12=0/274, 2-20=-670/2525

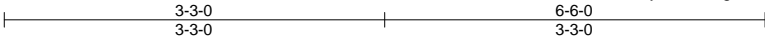
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576576
4335343	T13	COMMON GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:24 2024 Page 1
ID:cLQQfHVaOLGzE0HNaZzGxbyTax0-LizgKHxYf2hq_CXRHdUXZ30QLc0D4VjIKrIhs3yIXUL



Scale = 1:19.7

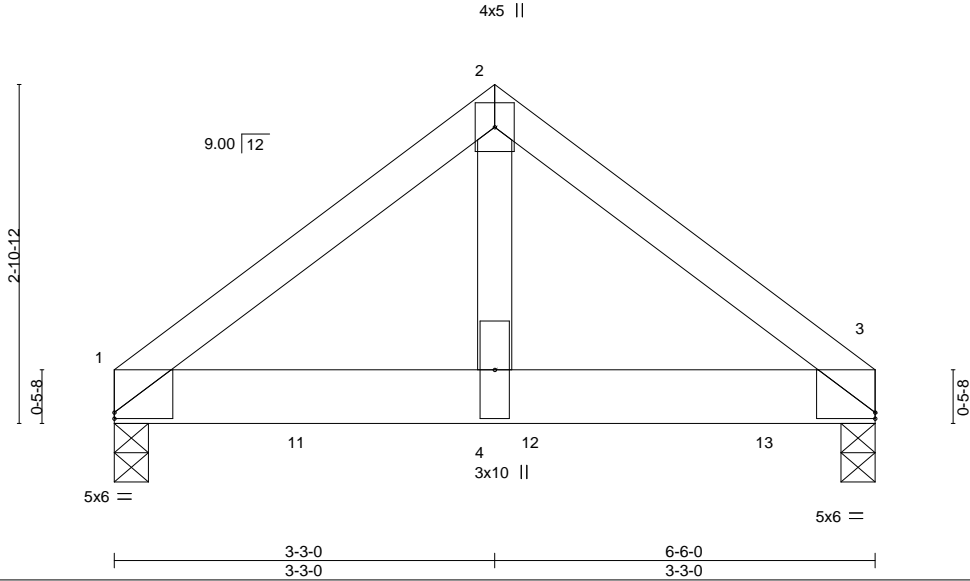


Plate Offsets (X,Y)--		[1:0-0-0,0-0-10], [3:0-0-0,0-0-10]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.21	Vert(LL)	-0.02 4-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.59	Vert(CT)	-0.03 4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.56	Horz(CT)	0.01 3	n/a	n/a		
BCDL	10.0	Code FRC2023/TPI2014		Matrix-MP						Weight: 62 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) 1=0-3-8, 3=0-3-8
Max Horz 1=60(LC 28)
Max Uplift 1=-566(LC 8), 3=-706(LC 9)
Max Grav 1=2256(LC 2), 3=2825(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2649/682, 2-3=-2641/679
BOT CHORD 1-4=-512/2112, 3-4=-512/2112
WEBS 2-4=-735/2966

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=566, 3=706.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1554 lb down and 400 lb up at 1-7-12, and 1554 lb down and 400 lb up at 3-7-12, and 1556 lb down and 399 lb up at 5-7-12 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: 1-2=-54, 2-3=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-1441(B) 12=-1441(B) 13=-1442(B)

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:

November 18,2024

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Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576577
4335343	T13G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

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

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:24 2024 Page 1
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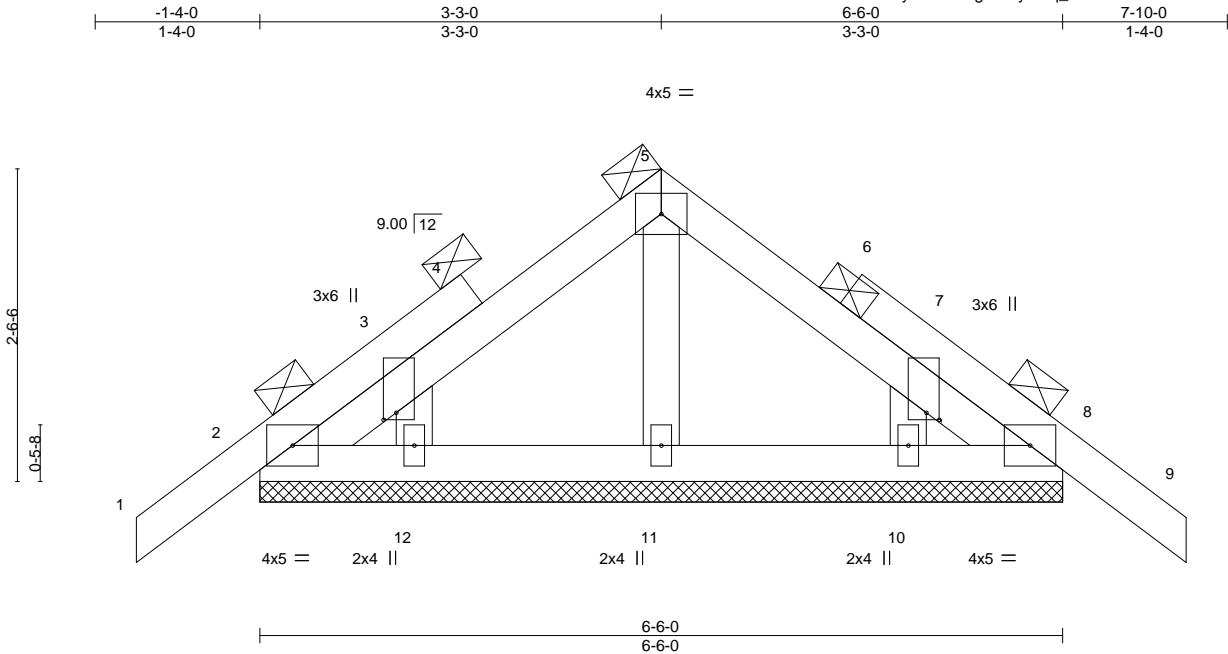


Plate Offsets (X,Y)--		[3:0-0-11,0-1-4], [7:0-0-11,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	-0.00	9	n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	9	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code FRC2023/TPI2014		Matrix-P							Weight: 35 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 6-6-0.
(lb) - Max Horz 2=70(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 10.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

November 18,2024

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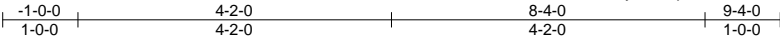
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576578
4335343	T14	ROOF SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:25 2024 Page 1

ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-puX2XdXbQMphcM5dqK0m6HYbl0TYp1ZuZU1EOVylxUK



4x5 = Scale = 1:30.6

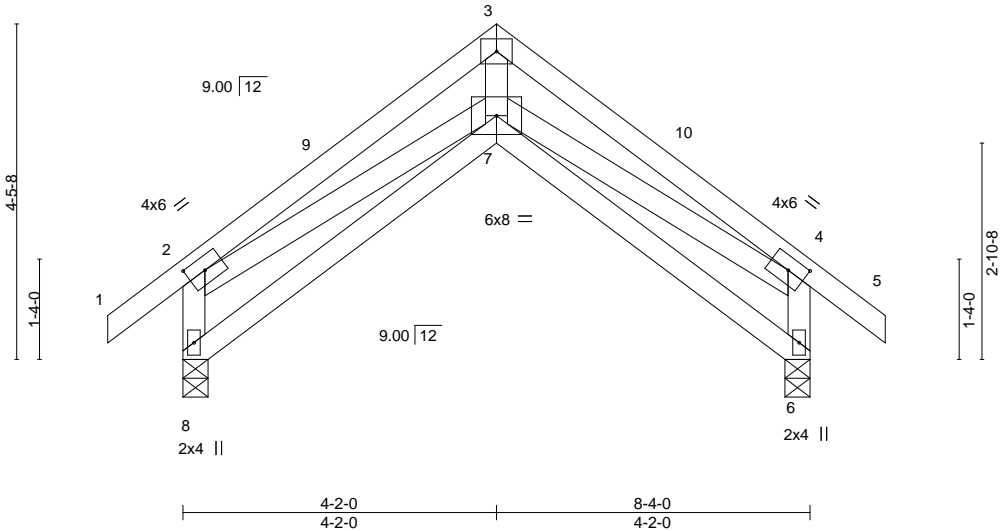


Plate Offsets (X,Y)--	[2:0-2-14,0-2-0], [4:0-2-14,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	0.03 7-8	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.04 7-8	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.06 6	n/a	n/a	
BCDL 10.0	Code FRC2023/TPI2014		Matrix-MS					Weight: 54 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 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 8=0-4-0, 6=0-4-0
Max Horz 8=-140(LC 10)
Max Uplift 8=-95(LC 12), 6=-95(LC 13)
Max Grav 8=359(LC 1), 6=359(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-364/305, 2-3=-681/208, 3-4=-685/218, 4-6=-356/329
WEBS 3-7=-210/574, 4-7=-179/547, 2-7=-28/471

- 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 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-2-0, Zone2 4-2-0 to 8-2-4, Zone1 8-2-4 to 9-4-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

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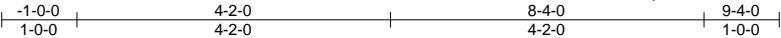
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 22 TW	T35576579
4335343	T14G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Nov 15 12:20:26 2024 Page 1

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4x5 =

Scale = 1:30.6

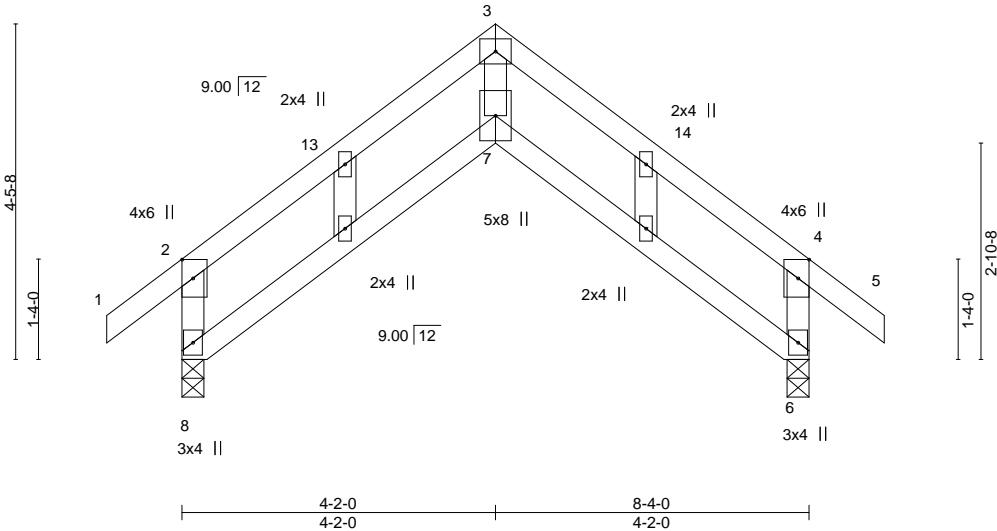


Plate Offsets (X,Y)--		[2:0-3-0,0-1-12], [4:0-3-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71
TCDL 7.0	Lumber DOL	1.25	BC 0.38
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15
BCDL 10.0	Code	FRC2023/TPI2014	Matrix-MR
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.15 7 >662 240
			Vert(CT) -0.28 7 >348 180
			Horz(CT) 0.42 6 n/a n/a
			PLATES GRIP
			MT20 244/190
			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, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-140(LC 10)
Max Uplift 8=-95(LC 12), 6=-95(LC 13)
Max Grav 8=359(LC 1), 6=359(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-466/282, 2-3=-464/227, 3-4=-466/239, 4-6=-466/325
BOT CHORD 7-8=-128/412, 6-7=-119/404
WEBS 3-7=-174/403

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-2-0, Zone2 4-2-0 to 8-2-4, Zone1 8-2-4 to 9-4-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

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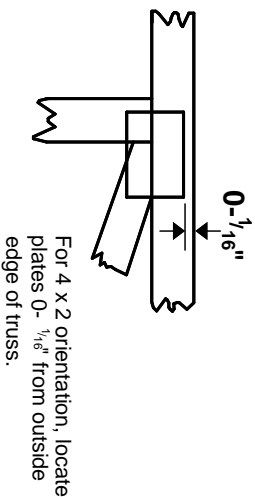
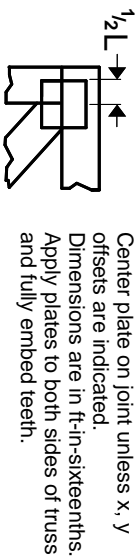
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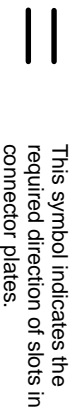
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Symbols

PLATE LOCATION AND ORIENTATION



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



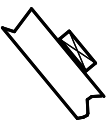
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

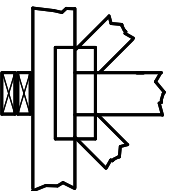
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

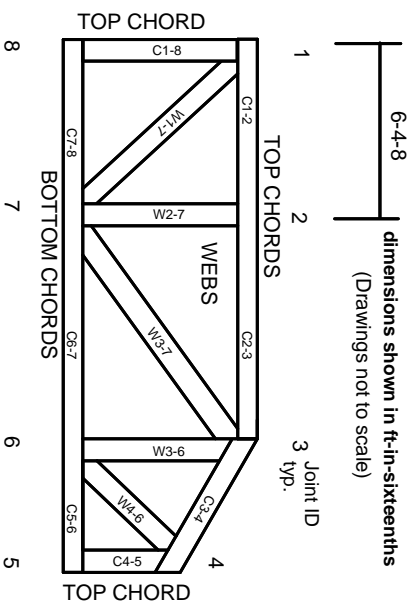
BEARING



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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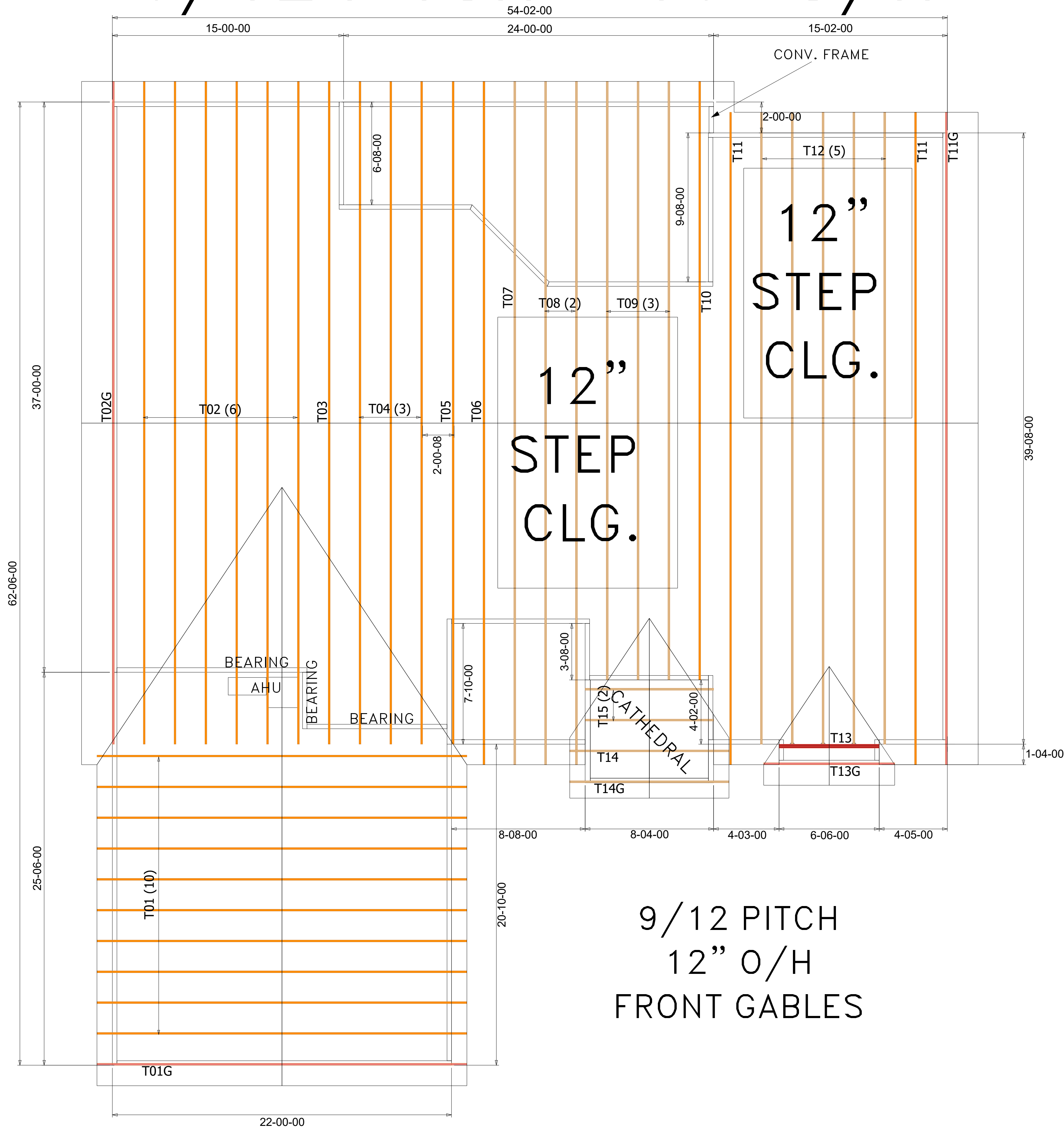
MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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.

6/12 PITCH – 16” O/H



WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And
Returned Before Fabrication Will
Begin. For Your Protection Check All
Dimensions And Conditions Prior To
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCLL: 10
TCDL: 7
BCLL: 0
BCDL: 10
DURATION: 1.25

FLOOR LOADING: TCLL: 10
TCDL: 7
BCLL: 0
BCDL: 10
DURATION: 1.00

5 PSF TCCL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY B
OCCUPANCY CATEGORY II
WIND LOAD 130MPH
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 6/12 - 9/12
CEILING PITCH: Flat
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 16"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC2023

BEARING HEIGHT SCHEDULE

BUILDER:	
DWC Contracting, LLC	
MODEL:	CUSTOM
ELEV:	GABLE
ADDRESS:	312 SW THISTLEWOOD LANE
LOT / BLOCK:	22
SUBDIVISION:	THORNWOOD
CITY:	Fort White
DRAWN BY:	Holloway, Kim
JOB # :	4335343
DATE:	11/15/2024
SCALE:	N.T.S.

REVISIONS:



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.