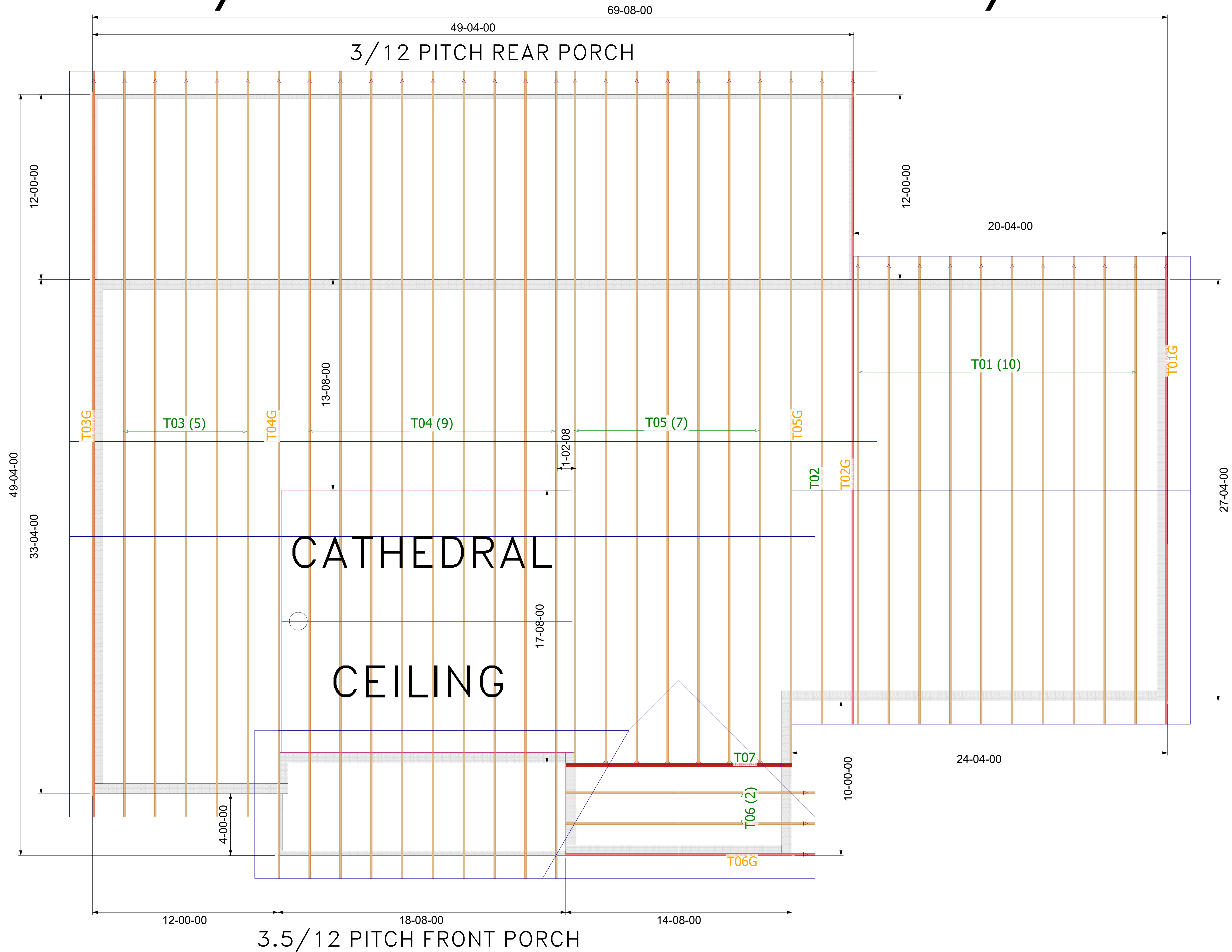
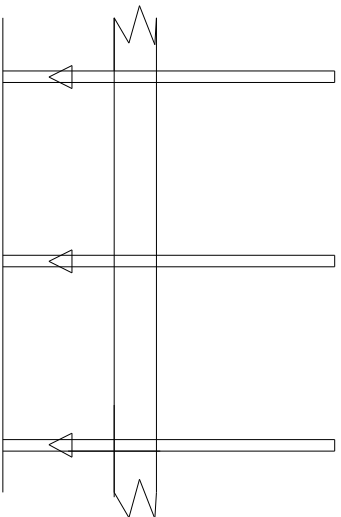


6/12 PITCH – 18” O/H



THE ARROW HEAD AT THE
END OF THE TRUSS ON
THE TRUSS PLACEMENT
PLAN (LAYOUT)
CORRESPONDS WITH THE
LEFT SIDE OF THE
INDIVIDUAL TRUSS
DRAWING. USE THIS AS AN
ORIENTATION GUIDE
WHEN SETTING THE
TRUSSES ON THE
STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.:- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders
FirstSource unless approved in writing first.
850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect.... so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:

Bob & Kathy Anderson

Legal Address:

126 SW Colonial Pl

Model:

Custom

Date:

3-6-24

Drawn By:

KLH

Original Ref #:

3908009

Floor 1 Job#

N/A

Floor 2 Job#:

N/A

Roof Job #:

3908009

MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

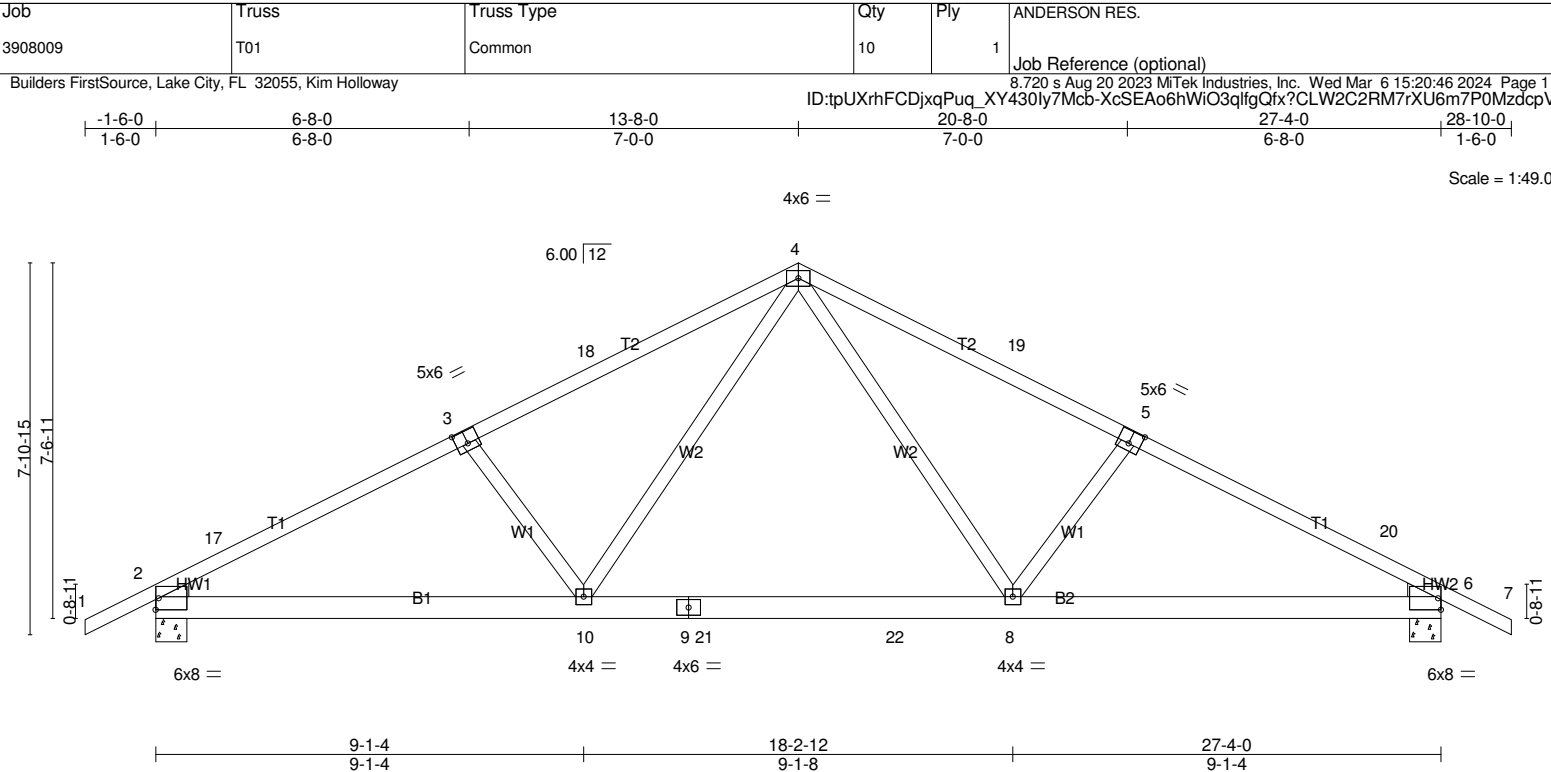


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.14	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.24	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 153 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-3-1 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

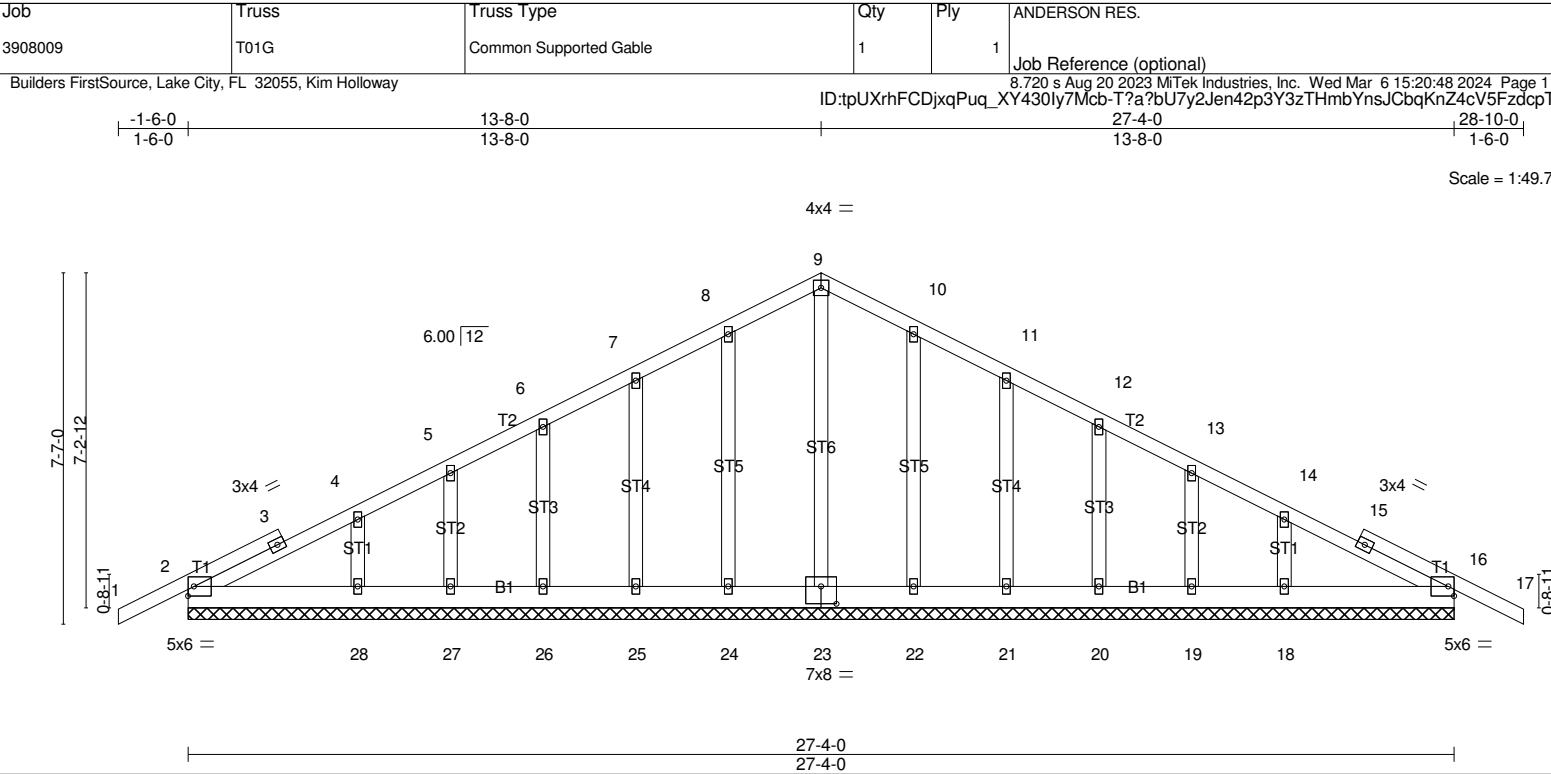
REACTIONS. (lb/size) 2=1183/0-8-0, 6=1540/0-8-0
Max Horz 2=126(LC 16)
Max Uplift 2=326(LC 12), 6=-443(LC 13)
Max Grav 2=1255(LC 2), 6=1563(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1967/463, 3-17=-1853/485, 3-18=-1800/457, 4-18=-1727/473, 4-19=-1963/563,
5-19=-2038/547, 5-20=-2093/576, 6-20=-2207/554
BOT CHORD 2-10=-463/1708, 9-10=-222/1223, 9-21=-222/1223, 21-22=-222/1223, 8-22=-222/1223,
6-8=-420/1922
WEBS 4-8=-315/1029, 5-8=-374/271, 4-10=-166/623, 3-10=-354/265

- 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 17-10-15 to 28-10-0 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, 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=326, 6=443.
 - 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 8-11=-20, 8-16=-80(F=-60), 14-16=-20



Job

3908009

Truss Type

T02G

GABLE

Qty

1

Ply

1

ANDERSON RES.

Job Reference (optional)

8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:20:52 2024 Page 1

ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-MmqWQsAS5Y8CYg6qnv2PScm4RTVGXUENUiajE0zdcP

1-6-0

7-0-0

12-4-0

17-6-0

22-6-0

25-8-0

32-8-0

39-4-0

40-10-0

1-6-0

1-6-0

7-0-0

5-4-0

5-2-0

5-0-0

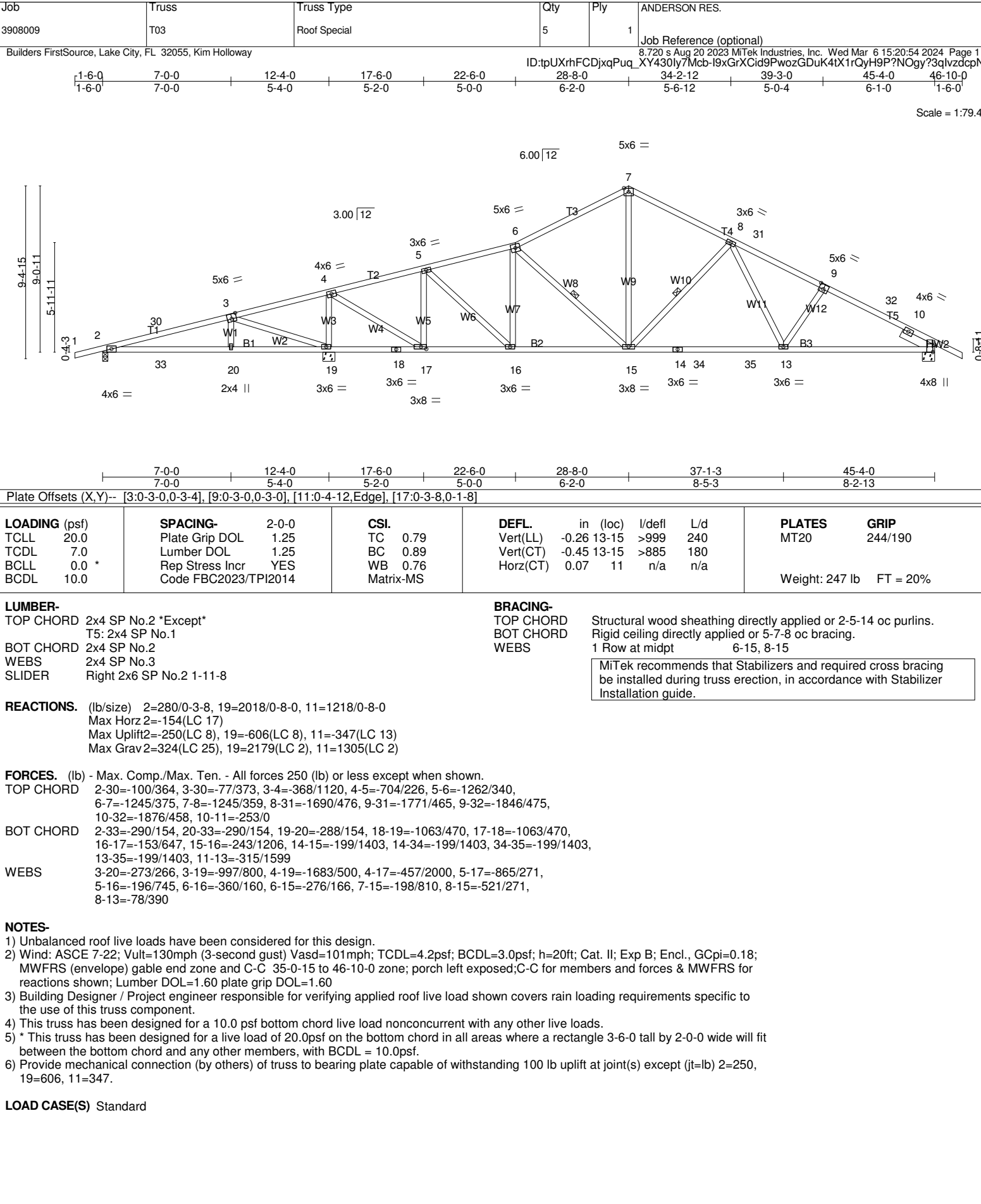
3-2-0

7-0-0

6-8-0

1-6-0

Scale = 1:71.7



Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
3908009	T03G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

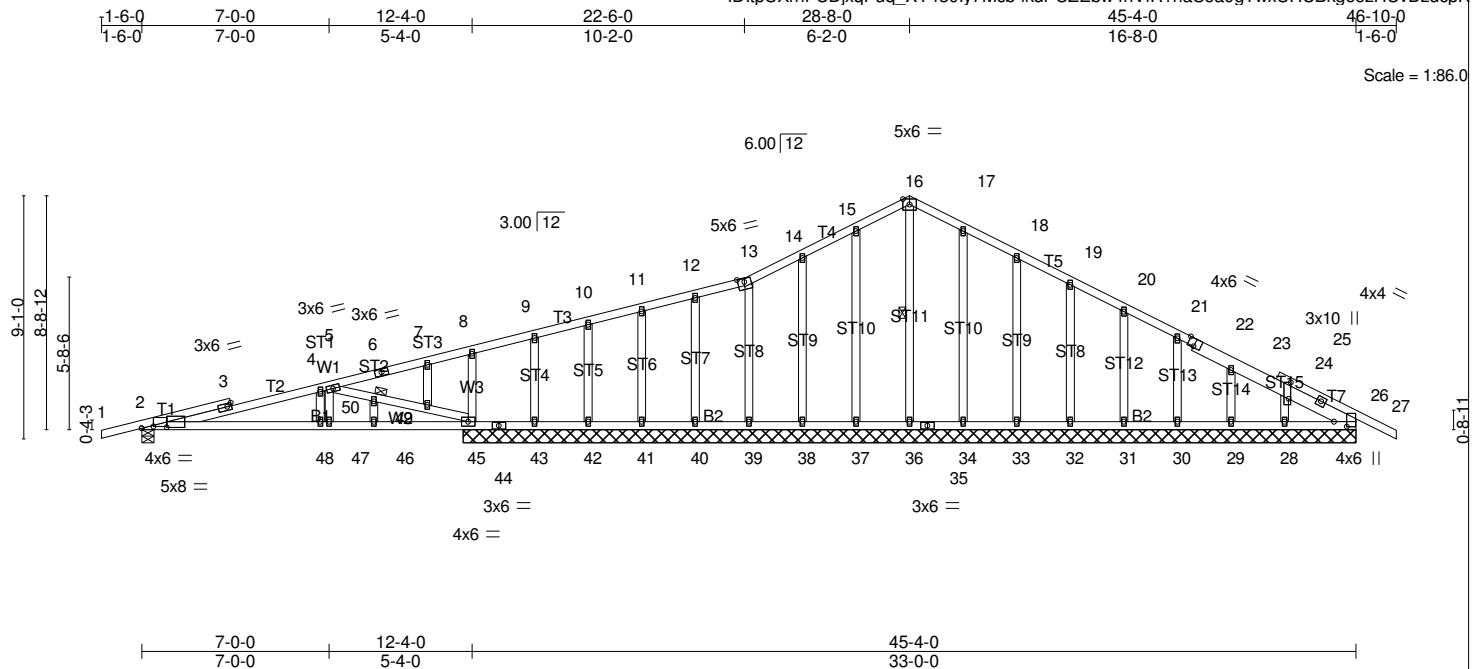


Plate Offsets (X,Y)--	[2:0-11-4,0-0-7],	[2:0-5-4,0-0-13],	[13:0-3-0,0-1-10],	[22:0-3-0,Edge],	[25:0-7-6,0-1-0],	[26:0-2-4,0-5-10]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	Vert(LL) 0.22 2-48 >668 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) 0.18 2-48 >789 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.02 26 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S		Weight: 284 lb	FT = 20%

LUMBER- TOP CHORD 2x4 SP No.2 *Except* T6: 2x6 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3		BRACING- TOP CHORD 2-0-0 oc purlins (4-9-4 max.). BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 4-10-11 oc bracing: 2-48 5-4-12 oc bracing: 47-48 5-5-1 oc bracing: 46-47 5-9-14 oc bracing: 45-46.	
		WEBS 1 Row at midpt 16-36 JOINTS 1 Brace at Jt(s): 13, 16, 50	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 33-4-0 except (jt=length) 2=0-5-8.
 (lb) - Max Horz 45=-146(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33,
 32, 31, 30, 29, 28, 26 except 2=-292(LC 8), 45=-324(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 34, 33,
 32, 31, 30, 29, 28, 26 except 2=488(LC 1), 36=346(LC 1), 45=574(LC 1)

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

TOP CHORD	2-3=-794/1063, 3-4=-762/1069, 4-5=-775/1080, 5-6=-368/204, 6-7=-361/247, 7-8=-333/241, 8-9=-305/241, 9-10=-278/242, 13-14=-173/285, 14-15=-107/295, 15-16=-45/293, 16-17=-45/287, 17-18=-108/274, 18-19=-168/270, 19-20=-229/271, 20-21=-289/270, 21-22=-352/275, 22-23=-359/257, 23-24=-402/264, 24-25=-377/219, 25-26=-474/267
BOT CHORD	2-48=-993/746, 47-48=-993/746, 46-47=-993/746, 45-46=-993/746, 44-45=-222/488, 43-44=-222/488, 42-43=-222/488, 41-42=-222/488, 40-41=-222/488, 39-40=-222/488, 38-39=-223/490, 37-38=-223/490, 36-37=-223/490, 35-36=-223/490, 34-35=-223/490, 33-34=-223/490, 32-33=-223/490, 31-32=-223/490, 30-31=-223/490, 29-30=-223/490, 28-29=-223/490, 26-28=-221/484
WEBS	16-36=-306/119, 5-47=-437/375, 5-50=-997/1517, 49-50=-992/1523, 45-49=-1024/1555

NOTES-

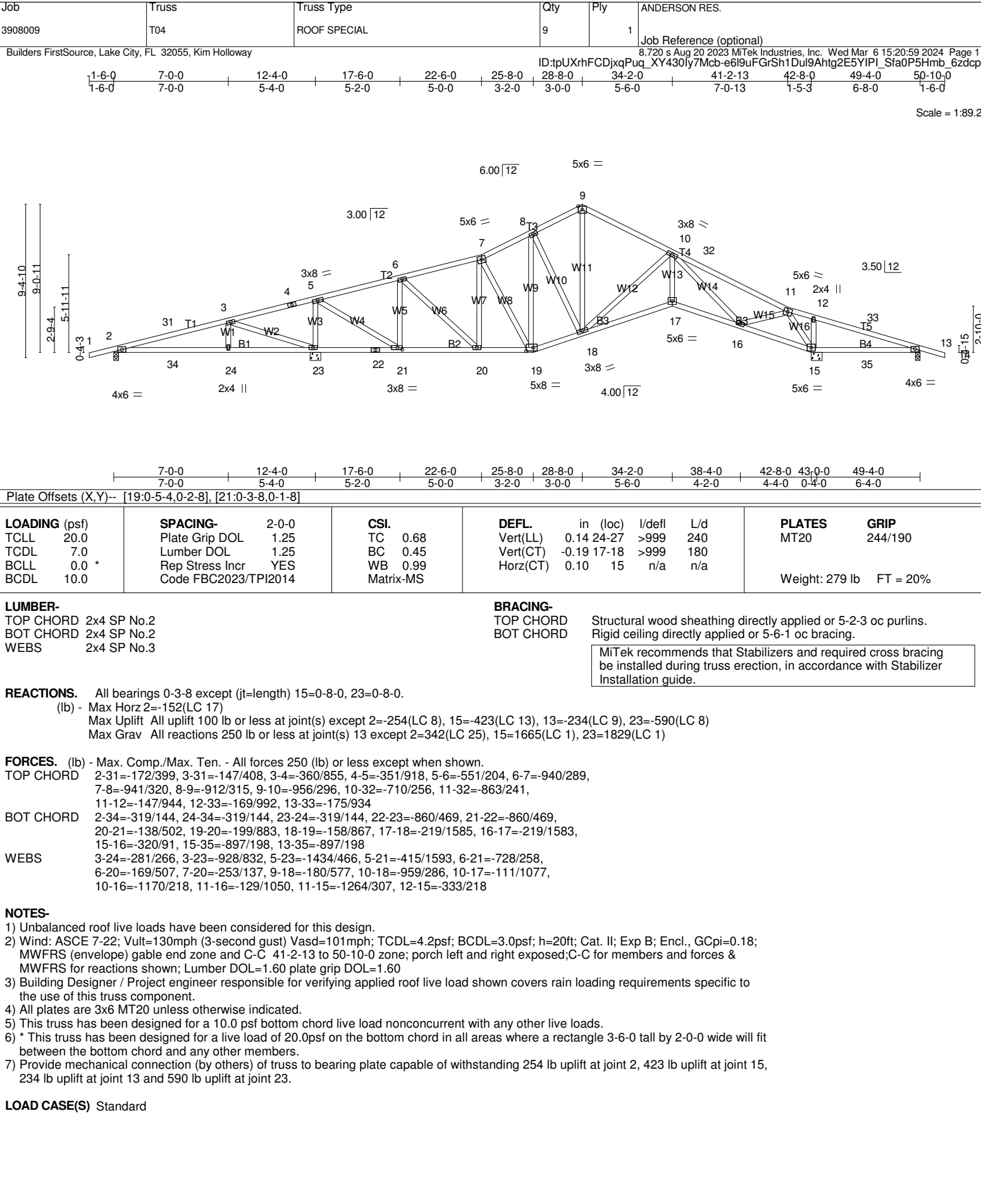
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
3908009	T03G	GABLE	1	1	Job Reference (optional)

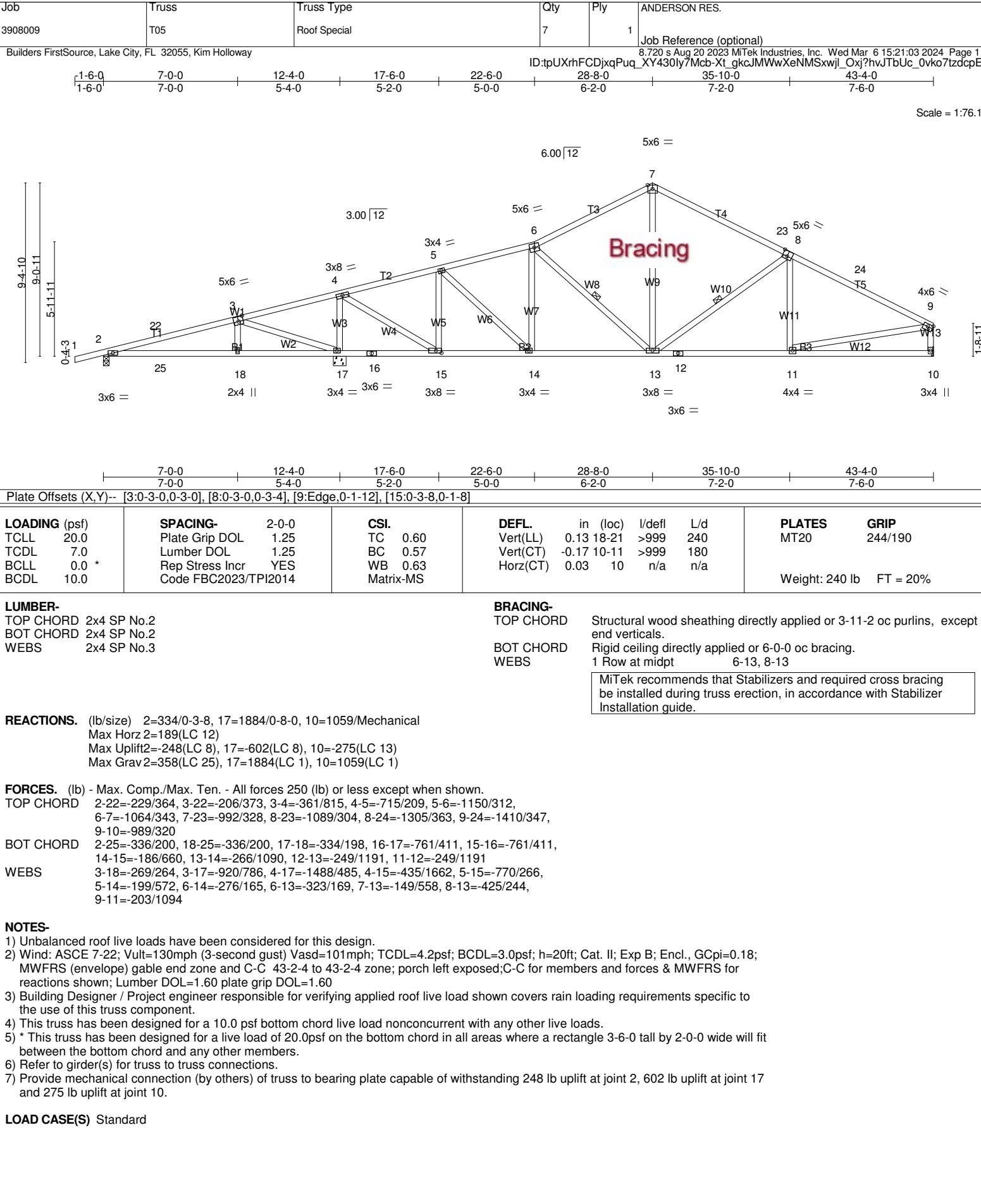
- NOTES-**
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except (jt=lb) 2=292, 45=324.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
3908009	T04G	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
3908009	T06	Common	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055, Kim Holloway					8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:07 2024 Page 1

ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-PfEBa_MsZ914szmi9ZpwZntigWizXPqaxXi0GezdcpA

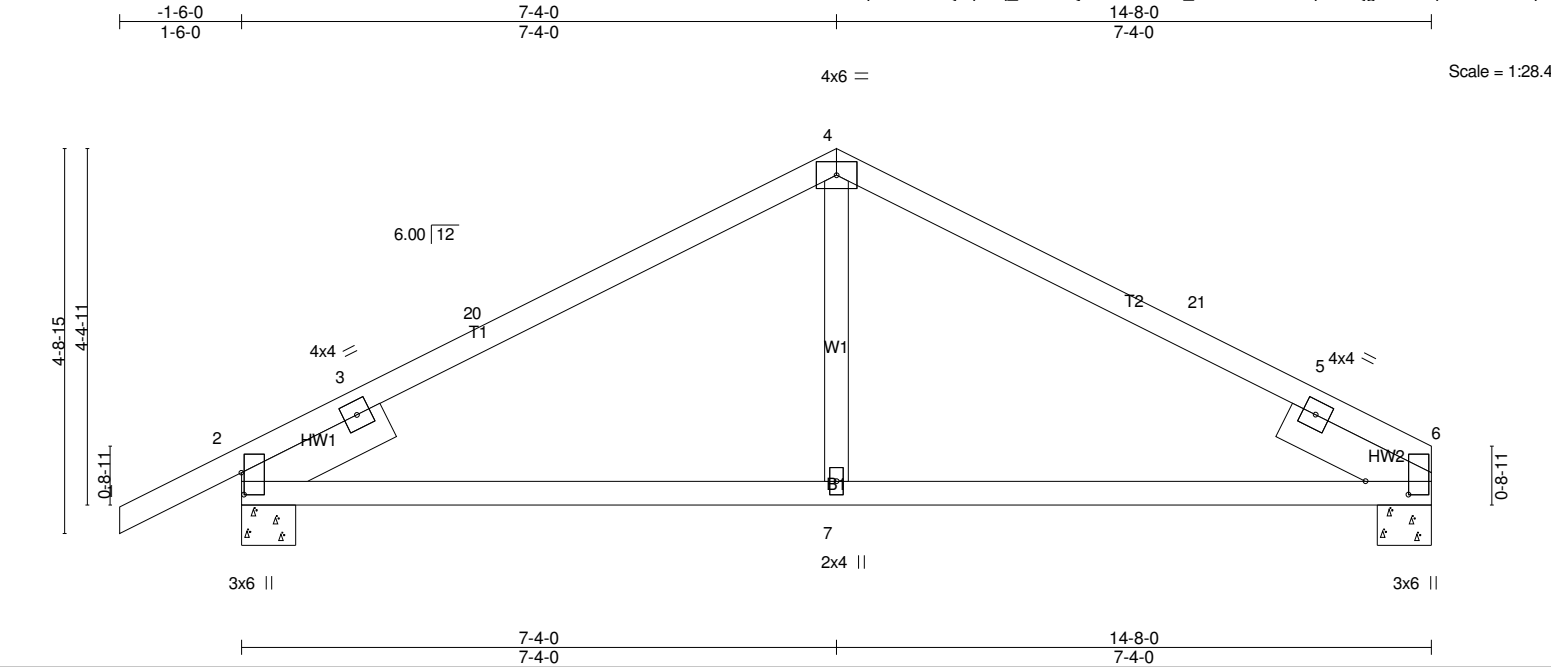


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [2:0-3-4,0-0-6], [6:0-2-0,0-6-6]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.40	Vert(LL) -0.07 7-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.11	Vert(CT) -0.10 7-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 64 lb	FT = 20%

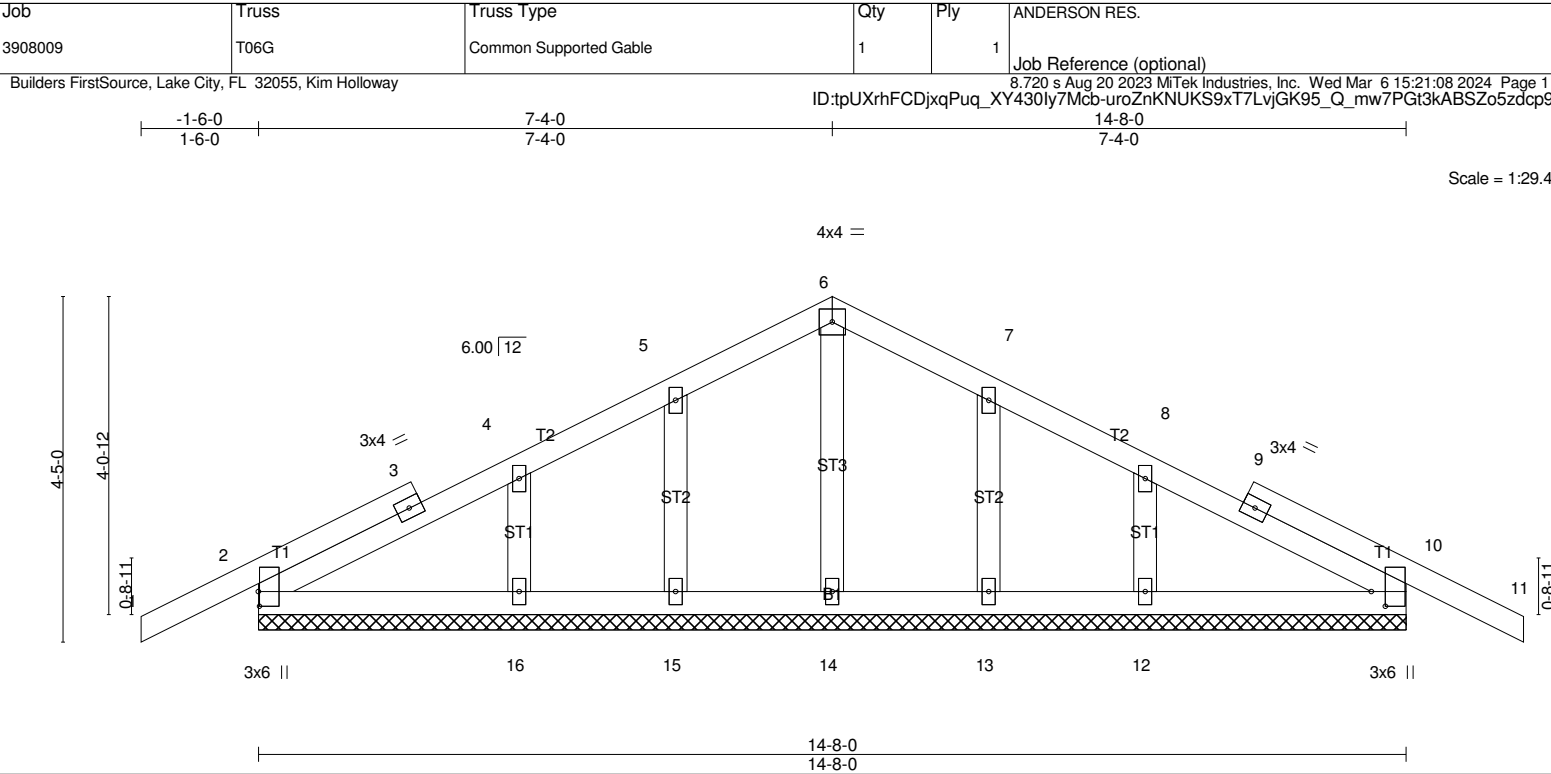
LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3		
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8		

REACTIONS.	(lb/size) 6=536/0-8-0, 2=630/0-8-0
	Max Horz 2=86(LC 12)
	Max Uplift 6=138(LC 13), 2=-178(LC 12)

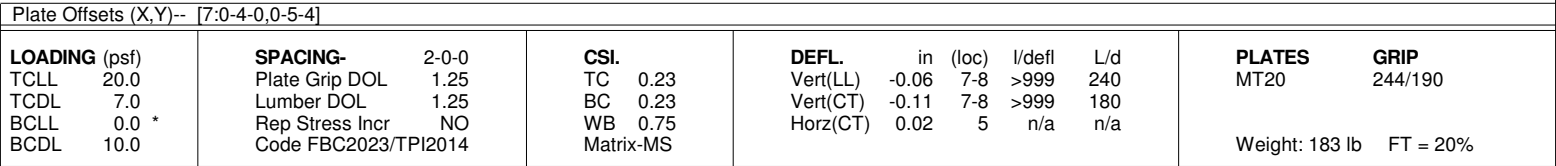
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-20=-615/202, 4-20=-544/218, 4-21=-544/228, 5-21=-574/212
BOT CHORD	2-7=-102/487, 6-7=-102/487
WEBS	4-7=-2/282

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 11-6-15 to 14-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 6 and 178 lb uplift at joint 2.	

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



Builders FirstSource, Lake City, FL 32055, Kim Holloway



LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3		BRACING- TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS. (lb/size) 1=3774/0-8-0, 5=3543/0-8-0 Max Horz 1=61(LC 29) Max Uplift1=-1012(LC 8), 5=-949(LC 9)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-5982/1601, 2-3=-4690/1275, 3-4=-4690/1275, 4-5=-5851/1567 BOT CHORD 1-15=-1445/5297, 8-15=-1445/5297, 8-16=-1445/5297, 16-17=-1445/5297, 7-17=-1445/5297, 7-18=-1352/5178, 18-19=-1352/5178, 6-19=-1352/5178, 6-20=-1352/5178, 5-20=-1352/5178 WEBS 3-7=-1042/3925, 4-7=-1192/390, 4-6=-250/1012, 2-7=-1331/426, 2-8=-284/1135			

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 1=1012, 5=949.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1039 lb down and 295 lb up at 2-0-12, 1039 lb down and 295 lb up at 4-0-12, 1039 lb down and 295 lb up at 6-0-12, 1039 lb down and 295 lb up at 8-0-12, and 1039 lb down and 295 lb up at 10-0-12, and 1039 lb down and 295 lb up at 12-0-12 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: 1-3=-54, 3-5=-54, 9-12=-20

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
3908009	T07	Common Girder	1	2	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 15=-1039(F) 16=-1039(F) 17=-1039(F) 18=-1039(F) 19=-1039(F) 20=-1039(F)



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

RE: 3908009 - ANDERSON RES.

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

Site Information:

Customer Info: BOB and KATHY ANDERSON Project Name: Anderson Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 126 SW Colonial Place, 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: 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 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 13 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
1	T33156909	T01	3/7/24
2	T33156910	T01G	3/7/24
3	T33156911	T02	3/7/24
4	T33156912	T02G	3/7/24
5	T33156913	T03	3/7/24
6	T33156914	T03G	3/7/24
7	T33156915	T04	3/7/24
8	T33156916	T04G	3/7/24
9	T33156917	T05	3/7/24
10	T33156918	T05G	3/7/24
11	T33156919	T06	3/7/24
12	T33156920	T06G	3/7/24
13	T33156921	T07	3/7/24

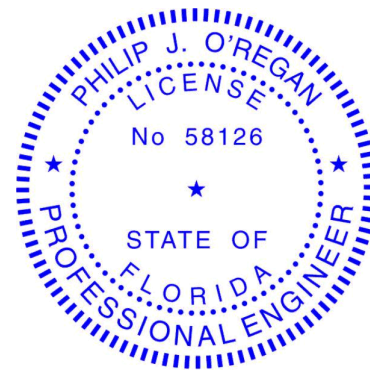


This item has been digitally signed and sealed by O'Regan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

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

March 7, 2024

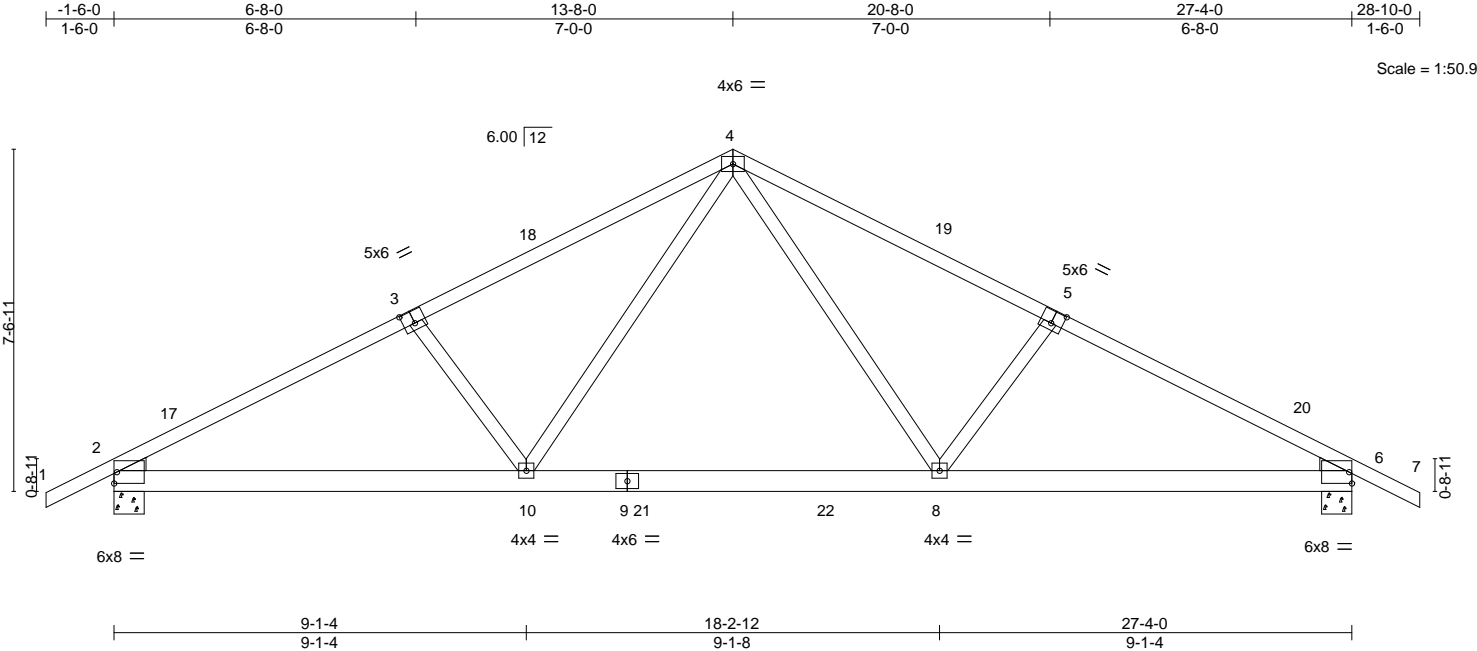
O'Regan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156909
3908009	T01	Common	10	1	Job Reference (optional)	

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

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:53 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-bp_UTW6N5F8UXaHqoULU31UaTosnUsB_SNXy_QzdcVi



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.14 8-10 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.24 8-16 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 153 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-1 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		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS. (size) 2=0-8-0, 6=0-8-0
Max Horz 2=126(LC 12)
Max Uplift 2=-326(LC 12), 6=-443(LC 13)
Max Grav 2=1255(LC 2), 6=1563(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1967/485, 3-4=-1800/473, 4-5=-2038/563, 5-6=-2207/576
BOT CHORD 2-10=-463/1708, 8-10=-222/1223, 6-8=-420/1922
WEBS 4-8=-315/1029, 5-8=-374/271, 4-10=-166/623, 3-10=-354/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-8-0, Zone2 13-8-0 to 17-10-15, Zone1 17-10-15 to 28-10-0 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, 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=326, 6=443.
 - 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, 8-11=-20, 8-16=-80(F=-60), 14-16=-20

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

March 7,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156910
3908009	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.730 s Feb 22 2024 MiTek Industries, Inc.
Wed Mar 6 14:41:55 2024
Page 1
ID:tpUXrhFCDjqPuq_XY430ly7Mcb-XC6EuC8ddsOCmuRCvvNy8SZ31bldyr_Hvh033JzdcVg
28-10-0

-1-6-0
1-6-0

13-8-0
13-8-0

27-4-0
13-8-0

28-10-0
1-6-0

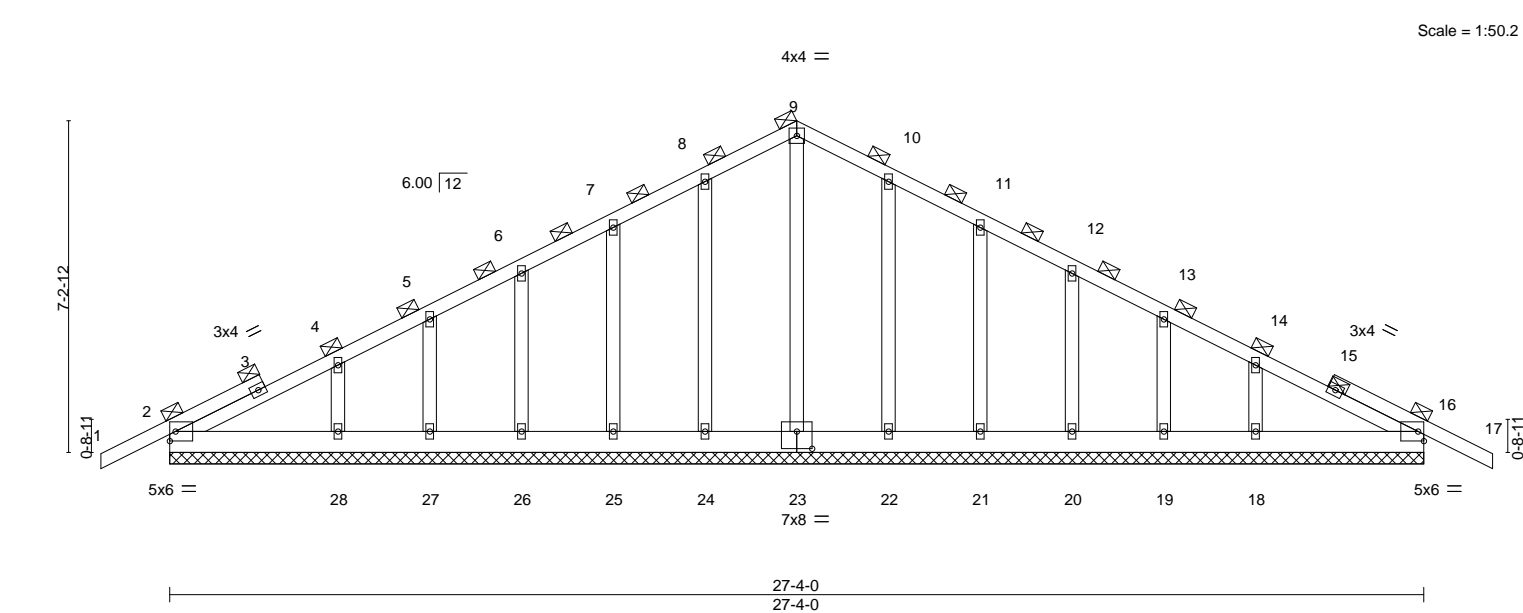


Plate Offsets (X,Y)-- [23:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00 17 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00 17 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00 16 n/a n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S				Weight: 183 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 27-4-0.
 (lb) - Max Horz 2=121(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19 except 28=105(LC 12), 18=104(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19 except (jt=lb) 28=105, 18=104.
 - 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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 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156911
3908009	T02	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:56 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-?Ogd6Y8FOAW3O20PTduBhg65o?uqhA1Q8LmcbldzcVf
1-6-0, 7-0-0, 12-4-0, 17-6-0, 22-6-0, 25-8-0, 32-8-0, 39-4-0, 40-10-0
1-6-0, 7-0-0, 5-4-0, 5-2-0, 5-0-0, 3-2-0, 7-0-0, 6-8-0, 1-6-0
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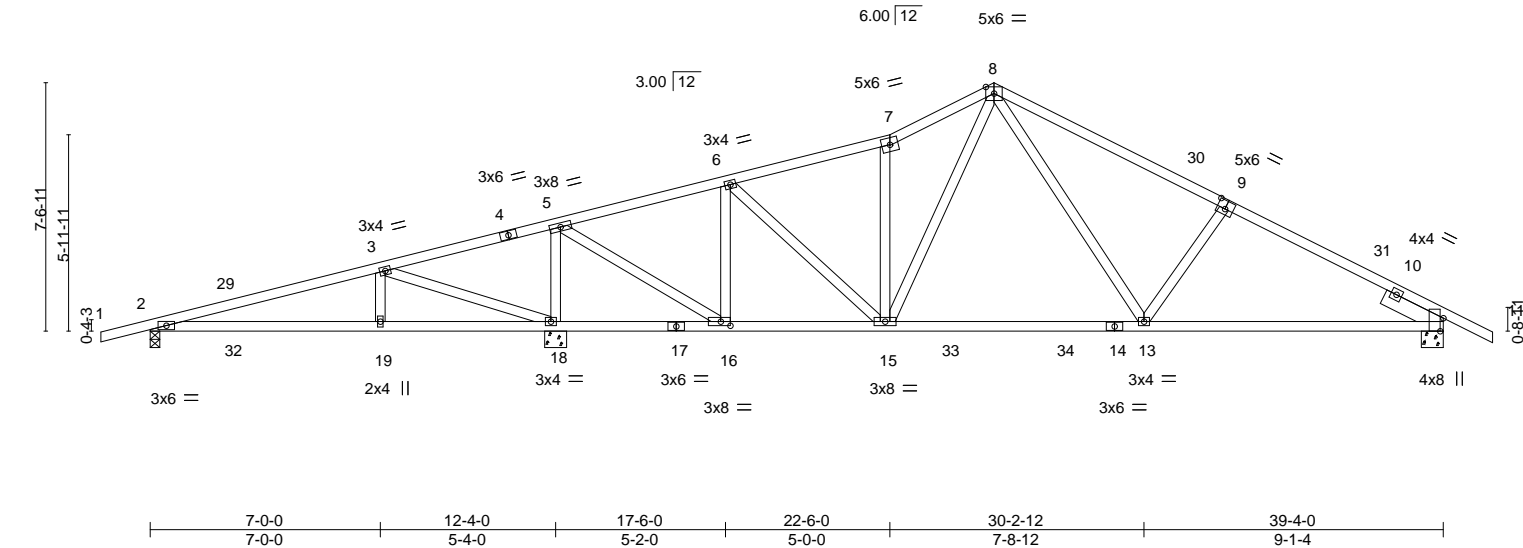


Plate Offsets (X,Y)--		[9:0-3-0,0-3-0], [11:0-4-12,Edge], [16:0-3-8,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.20 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.32 13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04 11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-11 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	
SLIDER Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 18=0-8-0, 11=0-8-0
Max Horz 2=-129(LC 17)
Max Uplift 2=-247(LC 8), 18=-601(LC 8), 11=-289(LC 13)
Max Grav 2=358(LC 25), 18=1907(LC 2), 11=1065(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-284/926, 5-6=-575/188, 6-7=-977/272, 7-8=-1056/322, 8-9=-1298/376, 9-11=-1428/382
BOT CHORD 16-18=-874/359, 15-16=-96/515, 13-15=-84/798, 11-13=-236/1222
WEBS 3-19=-137/263, 3-18=-992/565, 5-18=-1404/436, 5-16=-373/1626, 6-16=-710/222, 6-15=-121/545, 7-15=-377/188, 8-15=-129/377, 8-13=-169/581, 9-13=-298/242

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 25-8-0, Zone2 25-8-0 to 31-2-12, Zone1 31-2-12 to 40-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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=247, 18=601, 11=289.

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

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156913
3908009	T03	Roof Special	5	1		

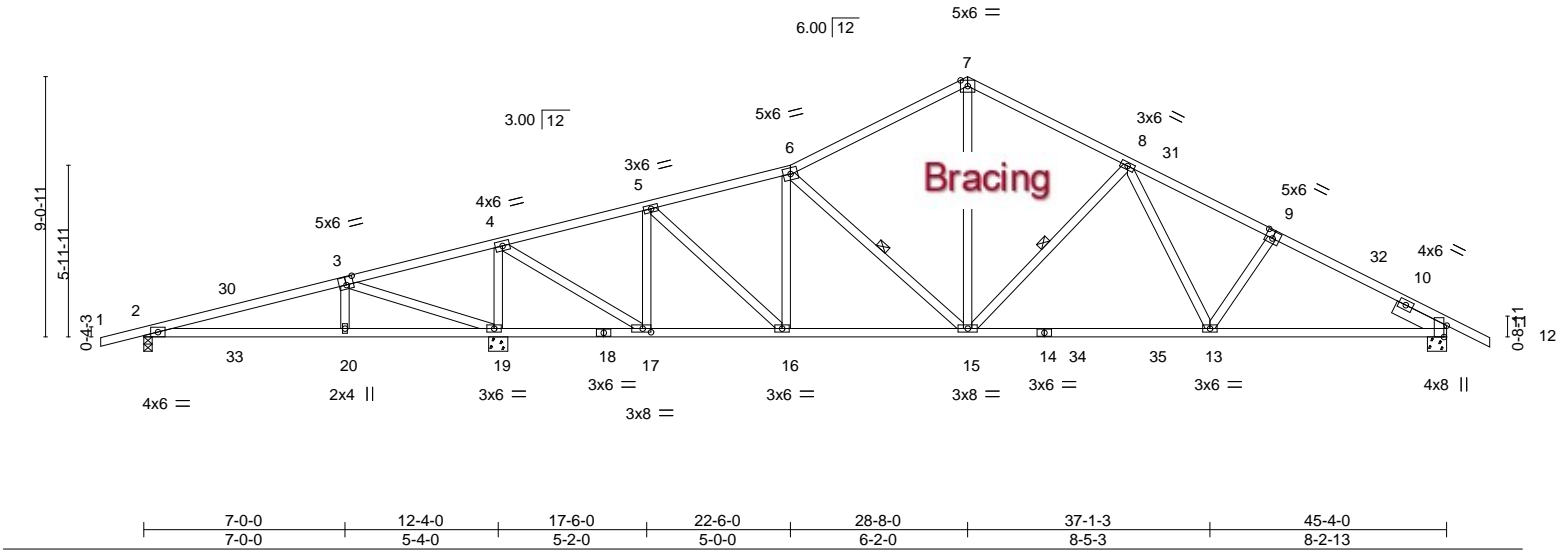
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:00 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-t9v7xvCmSP1VsfJAiTz7rWHmTcFbdyo03zpkWzdcVb

Job Reference (optional)

1-6-0	7-0-0	12-4-0	17-6-0	22-6-0	28-8-0	34-2-12	39-3-0	45-4-0	46-10-0
1-6-0	7-0-0	5-4-0	5-2-0	5-0-0	6-2-0	5-6-12	5-0-4	6-1-0	1-6-0

Scale = 1:80.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.89	Vert(LL) -0.26 13-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.76	Vert(CT) -0.45 13-15 >885 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 11 n/a n/a		
	Code FBC2023/TPI2014			Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 9-12: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-7-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 8-15
SLIDER Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 19=0-8-0, 11=0-8-0
Max Horz 2=154(LC 17)
Max Uplift 2=250(LC 8), 19=606(LC 8), 11=347(LC 13)
Max Grav 2=324(LC 25), 19=2179(LC 2), 11=1305(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-100/323, 3-4=-298/1120, 4-5=-704/226, 5-6=-1262/340, 6-7=-1245/375,
7-8=-1245/359, 8-9=-1771/476, 9-11=-1876/475
BOT CHORD 2-20=-284/154, 19-20=-285/154, 17-19=-1063/373, 16-17=-153/647, 15-16=-243/1206,
13-15=-200/1403, 11-13=-315/1599
WEBS 3-20=-141/266, 3-19=-997/563, 4-19=-1683/500, 4-17=-457/2000, 5-17=-865/267,
5-16=-169/745, 6-16=-360/144, 6-15=-276/166, 7-15=-198/810, 8-15=-521/271,
8-13=-78/390

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-0-6, Zone1 3-0-6 to 28-8-0, Zone2 28-8-0 to 35-0-15, Zone1 35-0-15 to 46-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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=250, 19=606, 11=347.

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Philip J. O'Regan PE No.58126
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Date:

March 7,2024

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

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

MiTek®
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156914
3908009	T03G	GABLE	1	1	Job Reference (optional)	

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

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:02 2024 Page 1

ID:tpUXrhFCDjxgPuq_XY430ly7Mcb-qY1uMbD0_0HD6zTYpt?bwxM8UQ0e5yelWHDwoPzdcVZ



Scale = 1:86.9

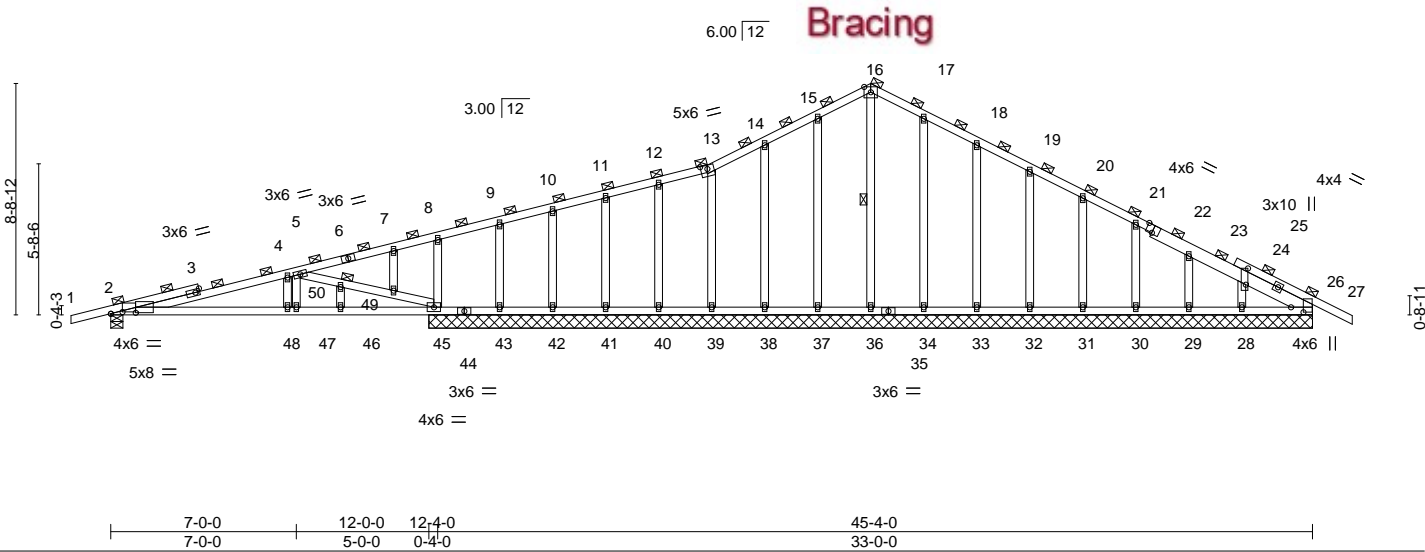


Plate Offsets (X,Y)--		[2:0-11-4,0-0-7], [2:0-5-4,0-0-13], [13:0-3-0,0-1-10], [22:0-3-0,Edge], [25:0-7-6,0-1-0], [26:0-2-4,0-5-10]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69
TCDL 7.0	Lumber DOL	1.25	BC 0.46
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36
BCDL 10.0	Code	FBC2023/TP12014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.12 2-48 >999 240
			Vert(CT) -0.16 2-48 >929 180
			Horz(CT) 0.02 26 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 284 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 22-26: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (4-9-4 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 7-8-9 oc bracing: 2-48 7-10-7 oc bracing: 47-48 7-10-5 oc bracing: 46-47 8-1-3 oc bracing: 45-46.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 16-36
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 13, 16, 50

REACTIONS.	All bearings 33-4-0 except (jt=length) 2=0-5-8.
(lb) - Max Horz	45=-146(LC 17)
Max Uplift	All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=-292(LC 8), 45=-324(LC 8)
Max Grav	All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=488(LC 1), 36=346(LC 1), 45=574(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-794/594, 4-5=-775/644, 13-14=-27/285, 14-15=-23/295, 15-16=-41/293, 16-17=-41/287, 17-18=-31/274, 18-19=-58/270, 19-20=-84/271, 20-21=-143/270, 21-23=-209/275, 23-25=-260/264, 25-26=-326/267
BOT CHORD	2-48=-527/746, 47-48=-527/746, 46-47=-527/746, 45-46=-527/746, 43-45=-222/356, 42-43=-222/356, 41-42=-222/356, 40-41=-222/356, 39-40=-222/356, 38-39=-223/359, 37-38=-223/359, 36-37=-223/359, 34-36=-223/359, 33-34=-223/359, 32-33=-223/359, 31-32=-223/359, 30-31=-223/359, 29-30=-223/359, 28-29=-223/359, 26-28=-221/353
WEBS	16-36=-306/15, 5-47=-337/375, 5-50=-997/905, 49-50=-992/900, 45-49=-1024/930

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; porch left exposed;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/TP1 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) All plates are 2x4 MT20 unless otherwise indicated.	
6) Gable studs spaced at 2-0-0 oc.	
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 33, 32, 31, 30, 29, 28, 26 except (jt=lb) 2=-292, 45=324.	

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

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

March 7,2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>MiTek®</p> <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156914
3908009	T03G	GABLE	1	1	Job Reference (optional)	

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

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:03 2024 Page 2
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-IkbGaxEelKP3j72INbWqT8vJEpMtqPtSlxyULrzcVY

NOTES-
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 **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.sbccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156915
3908009	T04	ROOF SPECIAL	9	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:04 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-mx9enHFHWdXwLGdxxl13?MRUADjPZIAb_bi1tHzdcVX
1-6-0 7-0-0 12-4-0 17-6-0 22-6-0 25-8-0 28-8-0 34-2-0 41-2-13 42-8-0 49-4-0 50-10-0
1-6-0 7-0-0 5-4-0 5-2-0 5-0-0 3-2-0 3-0-0 5-6-0 7-0-13 4-5-3 6-8-0 1-6-0
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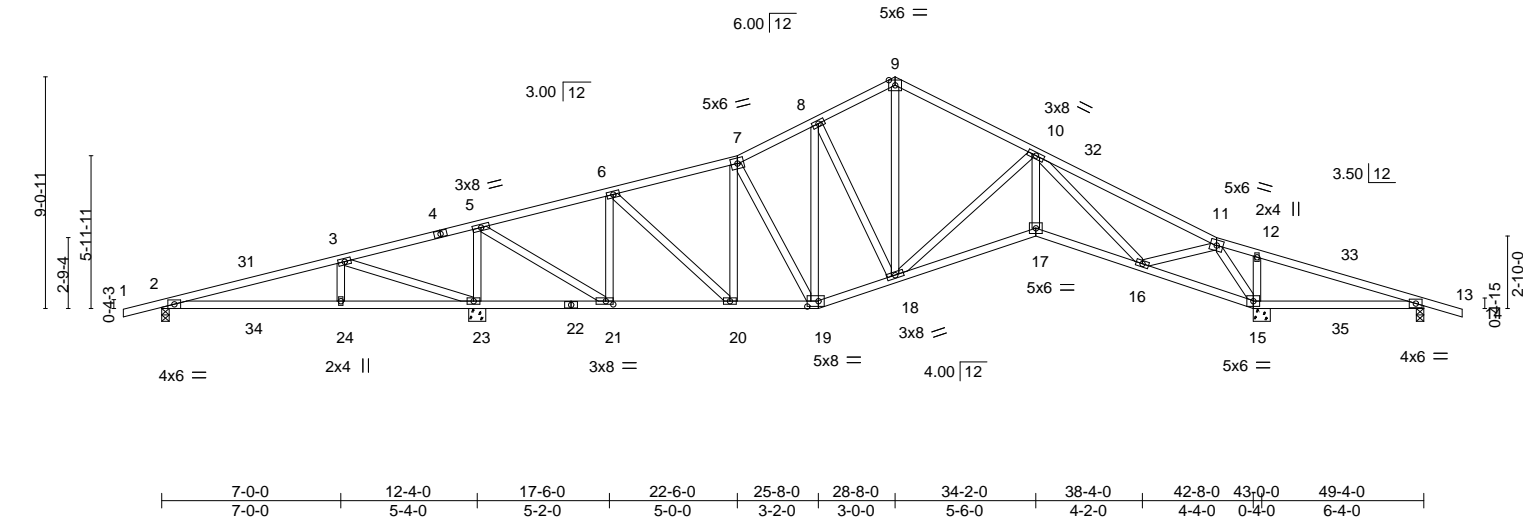


Plate Offsets (X,Y)--		[19:0-5-4,0-2-8], [21:0-3-8,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.68		Vert(LL)	0.11 24-27	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.45		Vert(CT)	-0.19 17-18	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.99		Horz(CT)	0.10 15	n/a	n/a		
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-MS						Weight: 279 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 15=0-8-0, 23=0-8-0.
(lb) - Max Horz 2=152(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=254(LC 8), 15=423(LC 13), 13=234(LC 9), 23=590(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=342(LC 25), 15=1665(LC 1), 23=1829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=273/918, 5-6=551/204, 6-7=940/289, 7-8=941/320, 8-9=912/315,
9-10=956/306, 10-11=863/241, 11-12=147/944, 12-13=175/992
BOT CHORD 21-23=860/364, 20-21=138/502, 19-20=199/883, 18-19=158/867, 17-18=232/1585,
16-17=232/1583, 15-16=320/91, 13-15=897/198
WEBS 3-24=143/266, 3-23=928/563, 5-23=1434/466, 5-21=414/1593, 6-21=728/246,
6-20=136/507, 7-20=253/116, 9-18=180/577, 10-18=959/286, 10-17=118/1077,
10-16=1170/218, 11-16=129/1050, 11-15=1264/307, 12-15=333/207

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 3-5-3, Zone1 3-5-3 to 28-8-0, Zone2 28-8-0 to 35-7-12,
Zone1 35-7-12 to 50-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
to the use of this truss component.
4) All plates are 3x6 MT20 unless otherwise indicated.
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 254 lb uplift at joint 2, 423 lb uplift at
joint 15, 234 lb uplift at joint 13 and 590 lb uplift at joint 23.

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digitally signed and
sealed by O'Regan, Philip, PE
on the date indicated here.
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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156917
3908009	T05	Roof Special	7	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:08 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-eiO9deInZs1MquwiA86?ACcBRq3PVbnBvDgF03zdcVT
1-6-0 7-0-0 12-4-0 17-6-0 22-6-0 28-8-0 35-10-0 43-4-0
1-6-0 7-0-0 5-4-0 5-2-0 5-0-0 6-2-0 7-2-0 7-6-0
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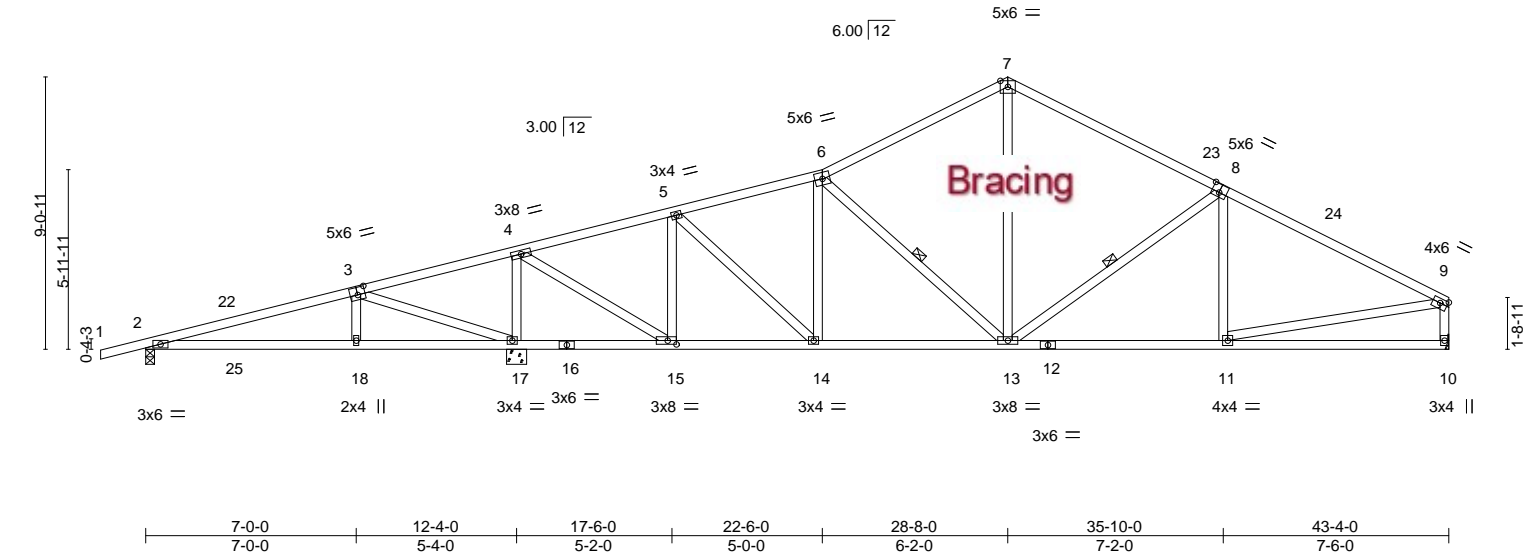


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [8:0-3-0,0-3-4], [9:Edge,0-1-12], [15:0-3-8,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.11 18-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.17 10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03 10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS						Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
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 6-13, 8-13

REACTIONS. (size) 2=0-3-8, 17=0-8-0, 10=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 2=248(LC 8), 17=602(LC 8), 10=275(LC 13)
Max Grav 2=358(LC 25), 17=1884(LC 1), 10=1059(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=282/815, 4-5=-715/209, 5-6=-1150/312, 6-7=-1064/343, 7-8=-1089/345, 8-9=-1410/363, 9-10=-989/329
BOT CHORD 2-18=-253/200, 17-18=-252/198, 15-17=-761/313, 14-15=-186/660, 13-14=-266/1090, 11-13=-249/1191
WEBS 3-18=-140/264, 3-17=-920/563, 4-17=-1488/485, 4-15=-435/1662, 5-15=-770/256, 5-14=-171/572, 6-14=-276/147, 6-13=-323/169, 7-13=-149/558, 8-13=-425/244, 9-11=-203/1094

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 28-8-0, Zone2 28-8-0 to 34-9-9, Zone1 34-9-9 to 43-2-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2, 602 lb uplift at joint 17 and 275 lb uplift at joint 10.

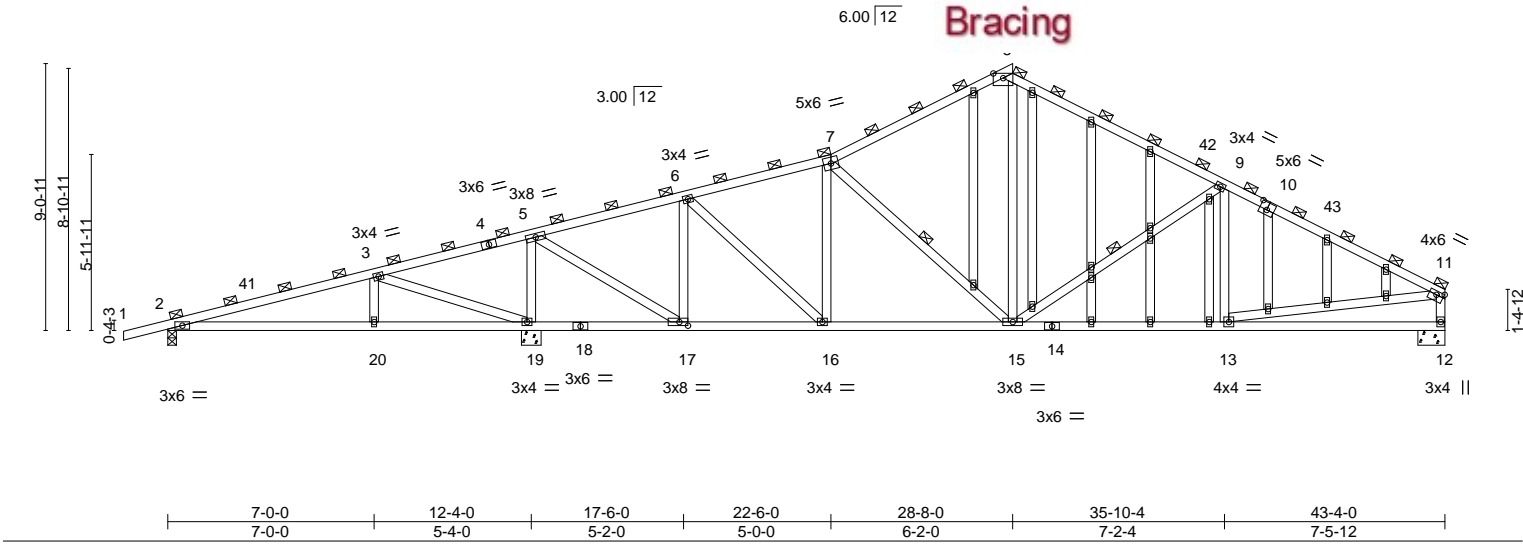
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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156918
3908009	T05G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:10 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-b4Wv2KJ15TH43B45HZ8TFdhWHekmzVDUMX9L5zdcVR
1-6-0 7-0-0 12-4-0 17-6-0 22-6-0 28-8-0 35-10-4 43-4-0
1-6-0 7-0-0 5-4-0 5-2-0 5-0-0 6-2-0 7-2-4 7-5-12
Scale = 1:78.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.08 12-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16 12-13 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03 12 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 294 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (3-10-14 max.), except end verticals.
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 7-15, 9-15
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 19=0-8-0, 12=0-11-0
Max Horz 2=180(LC 12)
Max Uplift 2=160(LC 8), 19=556(LC 12), 12=276(LC 13)
Max Grav 2=355(LC 25), 19=1890(LC 1), 12=1057(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-280/833, 5-6=-704/212, 6-7=-1143/331, 7-8=-1062/347, 8-9=-1117/370,
9-11=-1500/400, 11-12=-987/342
BOT CHORD 17-19=-778/201, 16-17=-178/650, 15-16=-257/1083, 13-15=-272/1272
WEBS 3-20=0/264, 3-19=-923/331, 5-19=-1494/483, 5-17=-434/1671, 6-17=-774/255,
6-16=-129/575, 7-16=-279/121, 7-15=-316/166, 8-15=-161/576, 9-15=-486/268,
11-13=-234/1133

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 28-6-1, Zone2 28-6-1 to 34-7-9, Zone1 34-7-9 to 43-2-4 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 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 160 lb uplift at joint 2, 556 lb uplift at joint 19 and 276 lb uplift at joint 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156919
3908009	T06	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:11 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-3H4lFgKgsnPxhLfHrGfinqEjh26hi4kdbBuvdOzdcVQ
1-6-0 7-4-0 14-8-0
1-6-0 7-4-0 7-4-0
4x6 = Scale = 1:29.0

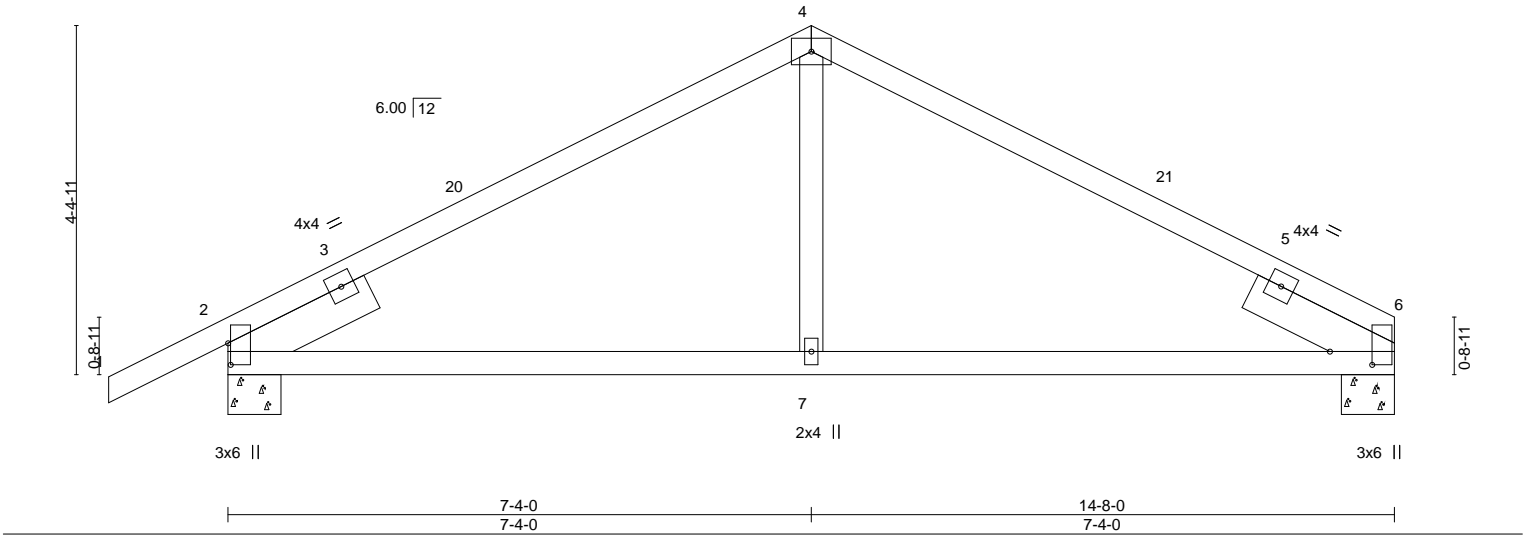


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [2:0-3-4,0-0-6], [6:0-2-0,0-6-6]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.47	Vert(LL)	-0.07	7-12	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.10	7-12	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 64 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS.	(size)
Max Horz	2=86(LC 12)
Max Uplift	6=138(LC 13), 2=178(LC 12)
Max Grav	6=536(LC 1), 2=630(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-615/218, 4-6=-574/228
BOT CHORD	2-7=-102/487, 6-7=-102/487
WEBS	4-7=-2/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-4-0, Zone2 7-4-0 to 11-6-15, Zone1 11-6-15 to 14-8-0 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 138 lb uplift at joint 6 and 178 lb uplift at joint 2.

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

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156920
3908009	T06G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.730 s Feb 22 2024 MiTek Industries, Inc.
Wed Mar 6 14:42:12 2024
Page 1
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1-6-0

7-4-0
7-4-0

14-8-0
7-4-0

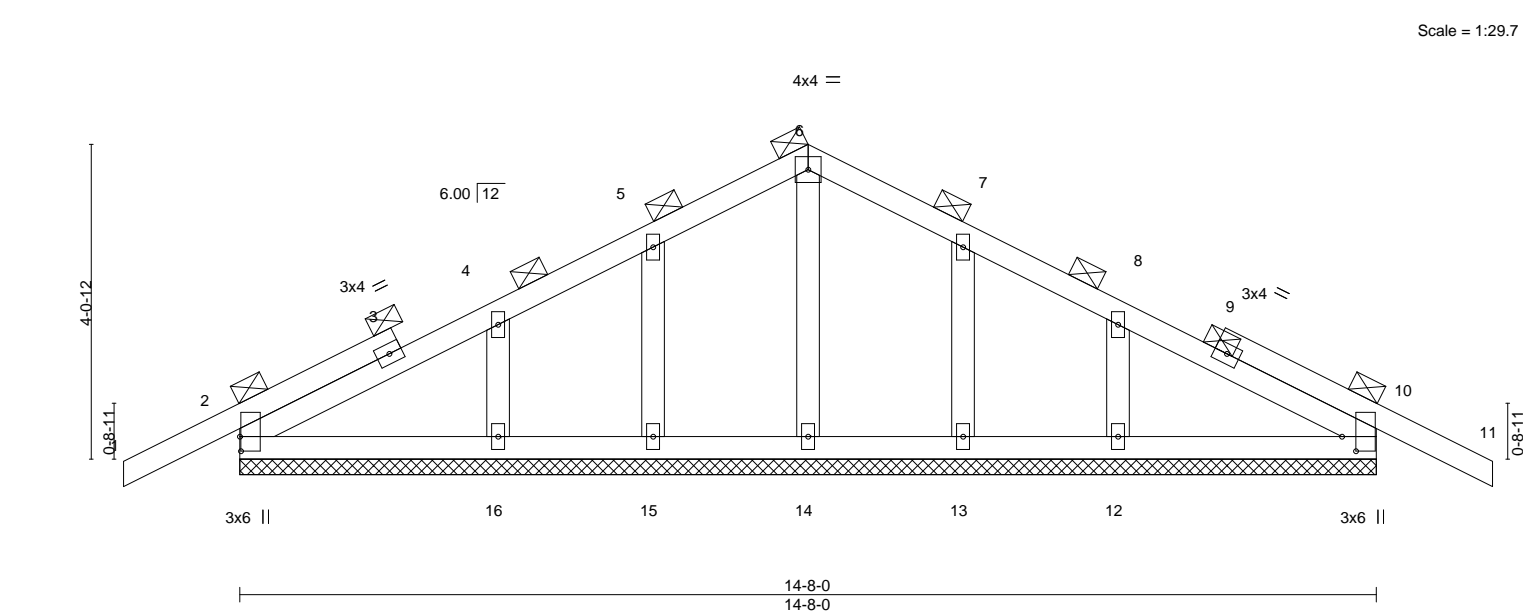


Plate Offsets (X,Y)--		[2:0-2-4,0-0-3], [10:0-2-4,0-2-3]								
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.13	Vert(LL)	-0.00 11	n/r	120	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.07	Vert(CT)	-0.00 11	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.04	Horz(CT)	0.00 10	n/a	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	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 14-8-0.
 (lb) - Max Horz 2=-68(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

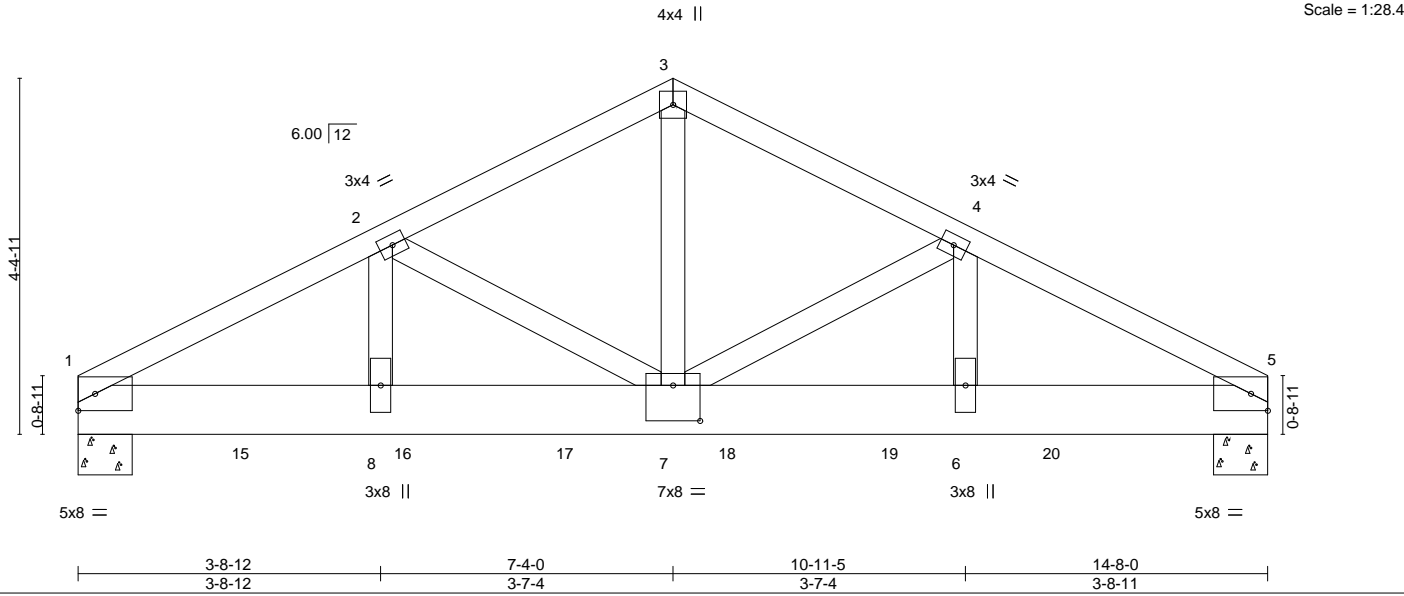
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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 7,2024

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	T33156921
3908009	T07	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:14 2024 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.06	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.11				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.02				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 183 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	1=0-8-0, 5=0-8-0
Max Horz	1=61(LC 29)
Max Uplift	1=1012(LC 8), 5=949(LC 9)
Max Grav	1=3774(LC 1), 5=3543(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-5982/1601, 2-3=-4690/1275, 3-4=-4690/1275, 4-5=-5851/1567
BOT CHORD	1-8=-1445/5297, 7-8=-1445/5297, 6-7=-1352/5178, 5-6=-1352/5178
WEBS	3-7=-1042/3925, 4-7=-1192/390, 4-6=-250/1012, 2-7=-1331/426, 2-8=-284/1135

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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=1012, 5=949.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1039 lb down and 295 lb up at 2-0-12, 1039 lb down and 295 lb up at 4-0-12, 1039 lb down and 295 lb up at 6-0-12, 1039 lb down and 295 lb up at 8-0-12, and 1039 lb down and 295 lb up at 10-0-12, and 1039 lb down and 295 lb up at 12-0-12 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	

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

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

March 7,2024

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

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:14 2024 Page 2
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-TslQtiMY9ioWYpOsWPDPPtSlgFB5uHU4H97ZEizdcVN

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 9-12=-20
Concentrated Loads (lb)
Vert: 15=-1039(F) 16=-1039(F) 17=-1039(F) 18=-1039(F) 19=-1039(F) 20=-1039(F)

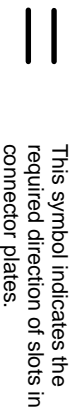
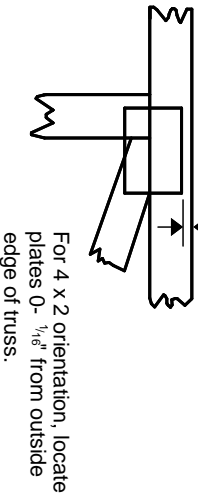
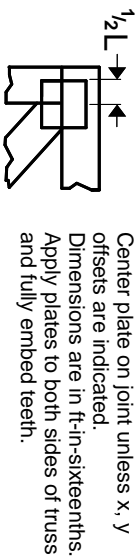
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Symbols

PLATE LOCATION AND ORIENTATION



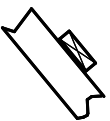
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

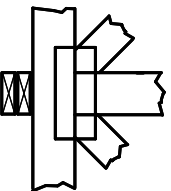
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

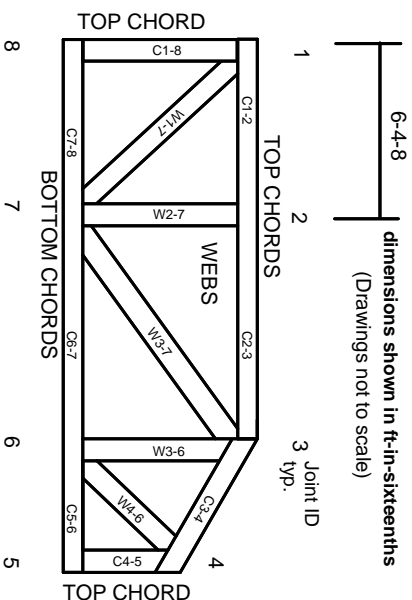


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.