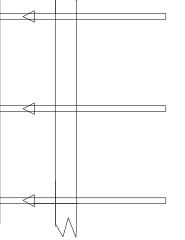
## 6/12 PITCH — 18" 0/H 3/12 PITCH REAR PORCH 20-04-00 T01 (10) T03 (5) T05 (7) T04 (9) 02 CATHEDRAL CEILING 24-04-00 06 (2) T06G 12-00-00 18-08-00 14-08-00 3.5/12 PITCH FRONT PORCH

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 Cruss 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 corrisive 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

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

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

sealed by the truss design engineer.

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

Bob & Kathy Anderson
Legal Address:
126 SW Colonial Pl

 $\overset{ ext{Model:}}{ ext{Custom}}$ 

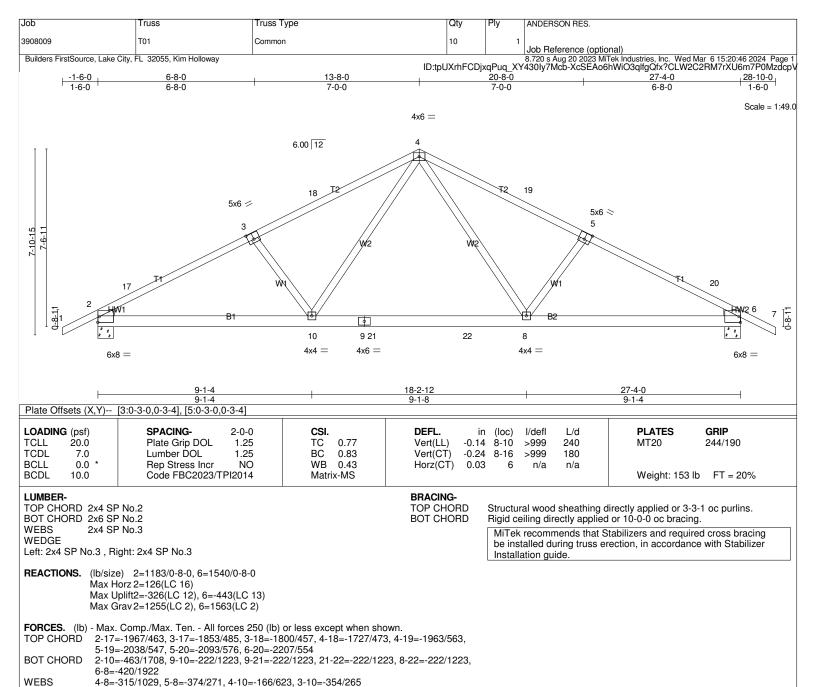
Floor 1 Job#

 $egin{array}{c|c} {\sf Custom} \\ {\sf Date}^{:} & {\sf Drawn\ By}^{:} \\ {\it 3-6-24} & {\sf KLH} \end{array}$ 

Drawn By: Original Ref #: 3908009

Floor 2 Job#: Roof Job #: 3908009

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



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 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

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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326,

7) 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

Job Truss Truss Type Qty Ply ANDERSON RES. 3908009 T01G Common Supported Gable lob Reference (optional) 8.720 s Aug 20 2023 MTek Industries, Inc. Wed Mar 6 15:20:48 2024 Page 1 ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-T?a?bU7y2Jen42p3Y3zTHmbYnsJCbqKnZ4cV5Fzdcp7 Builders FirstSource, Lake City, FL 32055, Kim Holloway -1-6-0 27-4-0 13-8-0 1-6-0 13-8-0 13-8-0 1-6-0 Scale = 1:49.7 4x4 = 9 10 8 6.00 12 11 12 6 T2 13 5 14 3x4 // 3x4 > 15 3 16 5x6 =5x6 =28 27 26 25 24 23 22 21 20 19 18 7x8 =

Plate Offsets (X,Y)-- [23:0-4-0,0-4-8]

LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25	CSI. TC 0.13 BC 0.04	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.00         17         n/r         120           Vert(CT)         -0.00         17         n/r         120           Uerr(CT)         -0.00         16         n/r         120	PLATES         GRIP           MT20         244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.09 Matrix-S	Horz(CT) 0.00 16 n/a n/a	Weight: 183 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3 BRACING-

27-4-0 27-4-0

TOP CHORD BOT CHORD 2-0-0 oc purlins (6-0-0 max.).

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.** 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),

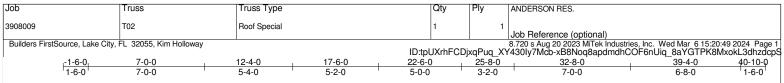
18=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

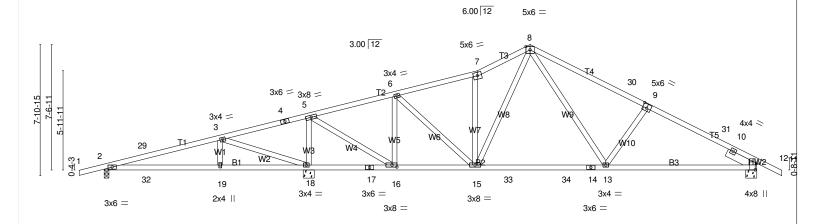
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 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 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) 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:69.4



	7-0-0	5-4-0	5-2-0	5-0-0	7-8-12	9-1-4	
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) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL) -0.5	20 13-15 >999 240	MT20 244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT) -0.3	32 13-15 >999 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT) 0.0	04 11 n/a n/a		
BCDL 10.0	Code FBC2023/7	Pl2014	Matrix-MS	,		Weight: 207 lb FT = 20%	

22-6-0

BRACING-

TOP CHORD

**BOT CHORD** 

30-2-12

Installation guide.

39-4-0

Structural wood sheathing directly applied or 3-4-11 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

17-6-0

LUMBER-

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

SLIDER Right 2x6 SP No.2 1-11-8

**REACTIONS.** (lb/size) 2=322/0-3-8, 18=1757/0-8-0, 11=994/0-8-0

7-0-0

Max Horz 2=-129(LC 17)

Max Uplift2=-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 2-29=-233/344, 3-29=-210/353, 3-4=-354/875, 4-5=-345/926, 5-6=-575/188, 6-7=-977/272,

12-4-0

7-8=-1056/322, 8-30=-1228/376, 9-30=-1298/352, 9-31=-1410/382, 10-31=-1428/363, 10-11=-326/0

10-11=-326/0

BOT CHORD 2-32=-274/203, 19-32=-274/203, 18-19=-274/203, 17-18=-874/451, 16-17=-874/451,

 $15\text{-}16\text{--}96/515,\ 15\text{--}33\text{--}84/798,\ 33\text{--}34\text{--}84/798,\ 14\text{--}34\text{--}84/798,\ 13\text{--}14\text{--}84/798,}$ 

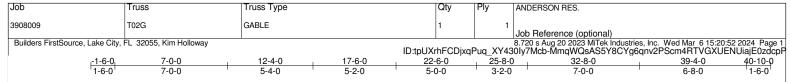
11-13=-236/1222

WEBS 3-19=-262/263, 3-18=-992/765, 5-18=-1404/436, 5-16=-390/1626, 6-16=-710/243, 6-15=-151/545, 7-15=-377/188, 8-15=-129/377, 8-13=-169/581, 9-13=-298/242

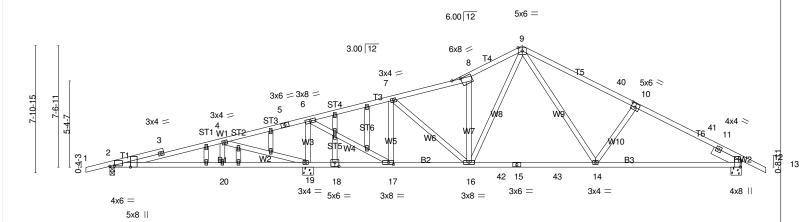
0-10=-101/040, 7-10=-077/100, 0-10=-129/077, 0-10=-109/001, 9-10=-290/242

### 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 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
- 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, with BCDL = 10.0psf.
- 6) 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.



Scale = 1:71.7



	7-0-0	12-4-0 <sub>1</sub> 17-	6-0   22-6-0	30-2-12	39-4-0
	7-0-0	5-4-0 5-2	2-0 5-0-0	7-8-12	9-1-4
Plate Offsets (X,Y)	[2:0-0-9,Edge], [2:0-3-4,0-0-5], [8:0	-6-5,Edge], [10:0-3-0,0	-3-0], [12:0-4-12,Edge], [17	0-3-8,0-1-8], [18:0-3-0,0-3-0]	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	( /	PLATES GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25	TC 0.79 BC 0.80	( )	14-16 >999 240 14-16 >999 180	MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.68 Matrix-MS	Horz(CT) 0.04	12 n/a n/a	Weight: 223 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (3-5-15 max.).

Installation guide.

Rigid ceiling directly applied or 5-7-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

LUMBER-

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

SLIDER Right 2x6 SP No.2 1-11-8

**REACTIONS.** (lb/size) 2=300/0-3-8, 12=984/0-8-0, 19=1786/0-8-0

Max Horz 2=-129(LC 17)

Max Uplift2=-232(LC 8), 12=-288(LC 13), 19=-625(LC 8) Max Grav 2=330(LC 25), 12=1055(LC 2), 19=1938(LC 2)

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

TOP CHORD 3-4=-71/255, 4-5=-514/1068, 5-6=-504/1120, 6-7=-584/186, 7-8=-997/275, 8-9=-1107/338,

9-40=-1208/373, 10-40=-1278/349, 10-41=-1389/379, 11-41=-1407/360, 11-12=-326/0 BOT CHORD 18-19=-1061/597, 17-18=-1061/597, 16-17=-83/515, 16-42=-77/778, 15-42=-77/778,

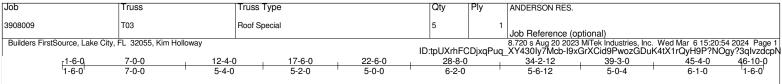
3OT CHORD 18-19=-1061/597, 17-18=-1061/597, 16-17=-83/515, 16-42=-7/7/78, 15-42=-7/ 15-43=-77/778, 14-43=-77/778, 12-14=-233/1205

WEBS 4-19=-1032/793, 6-19=-1465/462, 6-17=-475/1774, 7-17=-723/272, 7-16=-194/582,

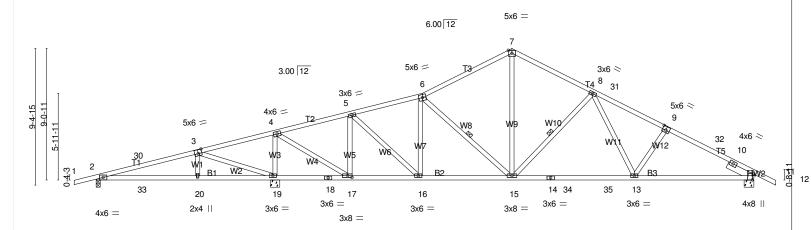
8-16=-446/208, 9-16=-140/425, 9-14=-169/582, 10-14=-299/242

### 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 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
- 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 2-0-0 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 12=288, 19=625
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	7-0-0 5-4-0		5-0-0	6-2-0	8-5-3	8-2-13
Plate Offsets (X,Y)	[3:0-3-0,0-3-4], [9:0-3-0,0-3-0], [11:0-4	4-12,Edge], [17:0-3-8,0-1	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 0.79	Vert(LL)	-0.26 13-15 >999	240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT)	-0.45 13-15 >885	180	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.76 Matrix-MS	Horz(CT)	0.07 11 n/a	n/a	Weight: 247 lb FT = 20%

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

22-6-0

28-8-0

1 Row at midpt

Installation guide.

37-1-3

Structural wood sheathing directly applied or 2-5-14 oc purlins. Rigid ceiling directly applied or 5-7-8 oc bracing.

6-15. 8-15

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

45-4-0

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*

T5: 2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

SLIDER Right 2x6 SP No.2 1-11-8

**REACTIONS.** (lb/size) 2=280/0-3-8, 19=2018/0-8-0, 11=1218/0-8-0

Max Horz 2=-154(LC 17)

Max Uplift2=-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 2-30=-100/364, 3-30=-77/373, 3-4=-368/1120, 4-5=-704/226, 5-6=-1262/340,

12-4-0

6-7=-1245/375, 7-8=-1245/359, 8-31=-1690/476, 9-31=-1771/465, 9-32=-1846/475,

10-32=-1876/458, 10-11=-253/0

BOT CHORD 2-33=-290/154, 20-33=-290/154, 19-20=-288/154, 18-19=-1063/470, 17-18=-1063/470,

16-17=-153/647, 15-16=-243/1206, 14-15=-199/1403, 14-34=-199/1403, 34-35=-199/1403,

13-35=-199/1403, 11-13=-315/1599

WEBS 3-20=-273/266, 3-19=-997/800, 4-19=-1683/500, 4-17=-457/2000, 5-17=-865/271,

5-16=-196/745, 6-16=-360/160, 6-15=-276/166, 7-15=-198/810, 8-15=-521/271,

8-13=-78/390

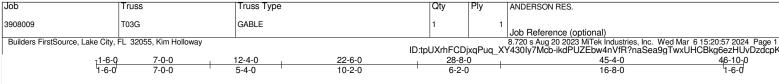
### NOTES-

1) Unbalanced roof live loads have been considered for this design.

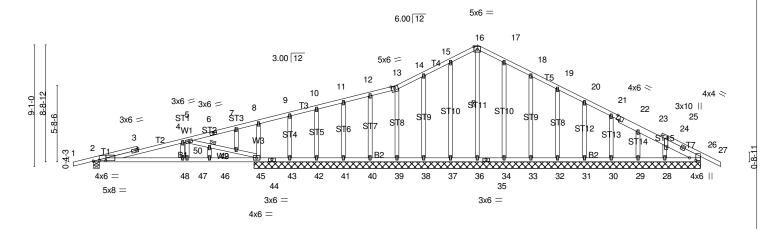
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 35-0-15 to 46-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

17-6-0

- 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, with BCDL = 10.0psf.
- 6) 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.







	7-0-0 3-4-0		33-0-0				
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.	<b>DEFL.</b> in (loc) I/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

2x4 SP No.3 **OTHERS** 

**BRACING-**

TOP CHORD 2-0-0 oc purlins (4-9-4 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: BOT CHORD

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

2-48=-993/746, 47-48=-993/746, 46-47=-993/746, 45-46=-993/746, 44-45=-222/488, BOT CHORD

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

 $16 - 36 = -306/119, \ 5 - 47 = -437/375, \ 5 - 50 = -997/1517, \ 49 - 50 = -992/1523, \ 45 - 49 = -1024/1555$ 

### **WEBS**

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 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 2-0-0 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

lob	Truss	Truss Type	Qty	Ply	ANDERSON RES.
908009	T03G	GABLE	1	1	John Deference (ontions)
Builders FirstSource, Lake City	, FL 32055, Kim Holloway		ID the LIVE FOO	Nam Division NO	Job Reference (optional) 8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:20:57 2024 Page Y430Iy7Mcb-ikdPUZEbw4nVfR?naSea9gTwxUHCBkg6ezHUvDzdcp
other members.  9) Provide mechanical co except (it=lb) 2=292, 4	onnection (by others) of tru 15=324. esentation does not depict		where a rectan	gle 3-6-0 at joint(s	tall by 2-0-0 wide will fit between the bottom chord and any s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26

Job	Truss	Truss Type	Qty Ply	ANDERSON RES.	
3908009	T04	ROOF SPECIAL	9 1	1	
				Job Reference (optional)	
Builders FirstSource, Lake City	FL 32055, Kim Holloway			8.720 s Aug 20 2023 MiTek Industries, In	
			ID:tpUXrhFCDjxqP	Puq_XY430ly7Mcb-e6l9uFGrSh1Dul9	Ahtg2E5YIPI_Sfa0P5Hmb_6zdcpl
<sub>1</sub> 1-6-Q	7-0-0 12-4	-0   17-6-0   22-6-0   25-8	0 28-8-0 34-2	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	i-0 <sup>1</sup> 7-0-13 1-5-3	6-8-0 1-6-0

Scale = 1:89.2

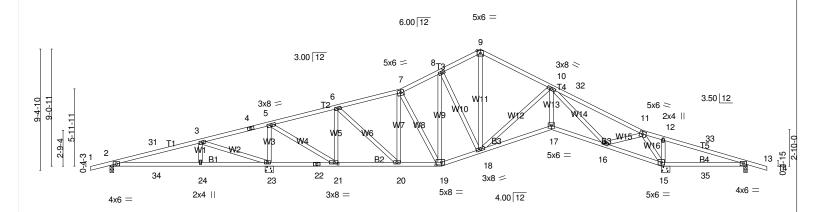


Plate Offsets (X,Y)	[19:0-5-4,0-2-8], [21:0-3-8,0-1-8]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.68 BC 0.45 WB 0.99 Matrix-MS	DEFL.         in (loc)         I/defl         L/d           Vert(LL)         0.14 24-27         >999         240           Vert(CT)         -0.19 17-18         >999         180           Horz(CT)         0.10         15         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 279 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-2-3 oc purlins. Rigid ceiling directly applied or 5-6-1 oc bracing.

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

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 b 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

2-31=-172/399, 3-31=-147/408, 3-4=-360/855, 4-5=-351/918, 5-6=-551/204, 6-7=-940/289,

7-8=-941/320, 8-9=-912/315, 9-10=-956/296, 10-32=-710/256, 11-32=-863/241,

11-12=-147/944, 12-33=-169/992, 13-33=-175/934

**BOT CHORD**  $2 - 34 = -319/144, \ 24 - 34 = -319/144, \ 23 - 24 = -319/144, \ 22 - 23 = -860/469, \ 21 - 22 = -860/469, \$ 

20-21=-138/502, 19-20=-199/883, 18-19=-158/867, 17-18=-219/1585, 16-17=-219/1583,

15-16=-320/91, 15-35=-897/198, 13-35=-897/198

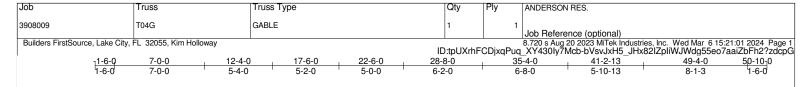
**WEBS**  $3-24=-281/266,\ 3-23=-928/832,\ 5-23=-1434/466,\ 5-21=-415/1593,\ 6-21=-728/258,$ 

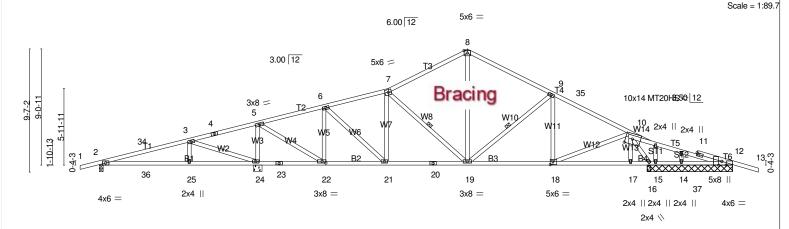
6-20=-169/507, 7-20=-253/137, 9-18=-180/577, 10-18=-959/286, 10-17=-111/1077,

10-16=-1170/218, 11-16=-129/1050, 11-15=-1264/307, 12-15=-333/218

### 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 41-2-13 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.
- \* 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.





DI - 0" - 0"	7-0-0 5-4-0	5-2-0 ' 5-0-0		5-10-13 1-6-15 6-6-4
Plate Offsets (X,Y)	[10:0-6-8,0-4-12], [12:0-3-8,Edge], [12	2:0-4-1,EdgeJ, [18:0-2-8,	,0-3-0], [22:0-3-8,0-1-8]	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) 0.14 25-33 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.45	Vert(CT) -0.13 25-33 >999 180	MT20HS 187/143
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.60 Matrix-MS	Horz(CT) 0.02 16 n/a n/a	Weight: 272 lb FT = 20%

**LUMBER-**TOP CHORD 2x4 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 (4-8-4 max.).
BOT CHORD Rigid ceiling directly applied

Rigid ceiling directly applied or 6-0-0 oc bracing.

41-2-13

42-9-12

WEBS 1 Row at midpt

35-4-0

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

7-19.9-19

**REACTIONS.** All bearings 6-8-0 except (jt=length) 2=0-3-8, 24=0-8-0, 16=0-3-8, 16=0-3-8.

(lb) - Max Horz 2=-158(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) except 12=-170(LC 9), 2=-256(LC 8), 24=-585(LC 8), 14=-141(LC 9),

15=-212(LC 1), 16=-463(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 14, 15, 12 except 2=365(LC 25), 24=1829(LC 1), 16=1505(LC 1), 16=1505(LC 1)

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

TOP CHORD 2-34=-257/430, 3-34=-233/439, 3-4=-328/707, 4-5=-324/770, 5-6=-694/230, 6-7=-1096/314,

7-8=-989/332, 8-9=-1007/310, 9-35=-1047/326, 10-35=-1216/325, 10-11=-147/572,

11-12=-159/511

BOT CHORD 2-36=-345/227, 25-36=-345/227, 24-25=-345/227, 23-24=-717/442, 22-23=-717/442,

 $21-22 = -155/640, \ 20-21 = -225/1036, \ 19-20 = -225/1036, \ 18-19 = -129/1010, \ 15-16 = -511/200, \ 18-19 = -129/1010, \ 15-16 = -511/200, \ 18-19 = -129/1010, \ 18-19/1010, \ 18-19/1010, \ 18-19/1010, \ 18-19/1010, \ 18-19/1010, \ 18-19/1010, \ 18-19/1010$ 

14-15=-511/200, 14-37=-511/200, 12-37=-511/200

WEBS 3-25=-281/264, 3-24=-920/830, 5-24=-1434/467, 5-22=-411/1587, 6-22=-731/249,

6-21=-171/527, 7-19=-334/179, 8-19=-145/514, 9-19=-308/205, 10-18=-196/951,

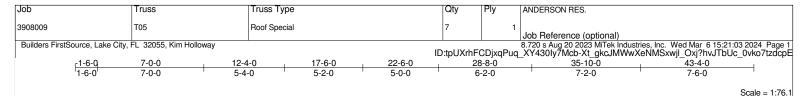
10-16=-1434/398

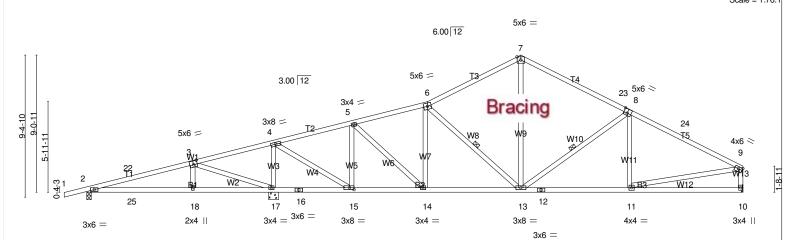
### NOTES-

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 42-0-12 to 51-4-0 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) 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 MT20 plates unless otherwise indicated.
- 6) All plates are 3x6 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 12, 256 lb uplift at joint 2, 585 lb uplift at joint 24, 141 lb uplift at joint 14, 212 lb uplift at joint 15, 463 lb uplift at joint 16 and 170 lb uplift at joint 12.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
		CARLE			
Builders FirstSource, Lake City, I			Dital IVebC	DivaDu-	Job Reference (optional) 8.720 s Aug 20 2023 MTek Industries, Inc. Wed Mar 6 15:21:01 2024 Page 2 _XY430Iy7Mcb-bVsvJxH5_JHx82IZpliWJWdg55eo7aaiZbFh2?zdcpG
LOAD CASE(S) Otamaland		·	ייוניטאויריי.	אניטיגןרעק	т т-эону лики-ги у вучх по_ и пхостсрни у и у учидоре о лаандо н пс / 2000 С
LOAD CASE(S) Standard					





	7-0-0 5-4-0	5-2-0	5-0-0	6-2-0	7-2-0	7-6-0
Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [8:0-3-0,0-3-4], [9:E	dge,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)	0.13 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/TPI2014	Matrix-MS	' ( ' '			Weight: 240 lb FT = 20%

22-6-0

LUMBER-

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

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals

43-4-0

**BOT CHORD** WFBS

28-8-0

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-13.8-13

35-10-0

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

REACTIONS. (lb/size) 2=334/0-3-8, 17=1884/0-8-0, 10=1059/Mechanical

Max Horz 2=189(LC 12)

Max Uplift2=-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

2-22=-229/364, 3-22=-206/373, 3-4=-361/815, 4-5=-715/209, 5-6=-1150/312,

6-7=-1064/343, 7-23=-992/328, 8-23=-1089/304, 8-24=-1305/363, 9-24=-1410/347,

9-10=-989/320

2-25=-336/200, 18-25=-336/200, 17-18=-334/198, 16-17=-761/411, 15-16=-761/411,

14-15=-186/660, 13-14=-266/1090, 12-13=-249/1191, 11-12=-249/1191

**WEBS** 3-18=-269/264, 3-17=-920/786, 4-17=-1488/485, 4-15=-435/1662, 5-15=-770/266,

5-14=-199/572, 6-14=-276/165, 6-13=-323/169, 7-13=-149/558, 8-13=-425/244,

9-11=-203/1094

### NOTES-

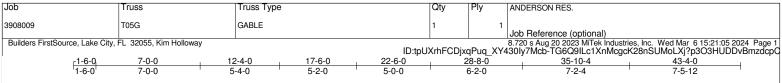
**BOT CHORD** 

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 43-2-4 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

17-6-0

- 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.
- \* 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) Refer to girder(s) for truss to truss connections.
- 7) 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.



Scale = 1:77.4

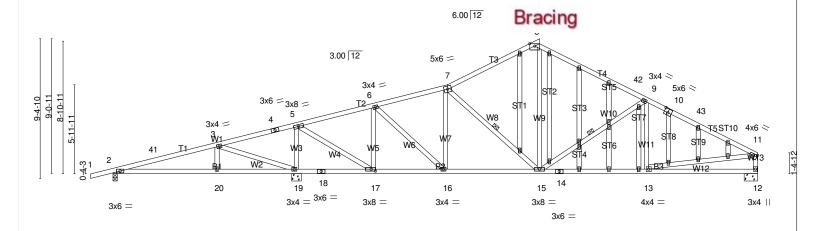


Plate Offsets (X,Y) [10:0-3-0,0-3-0], [11:0-3-0,0-1-8], [17:0-3-8,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) -0.08 12-13 >999 240	MT20 244/190			
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.16 12-13 >999 180				
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%			

22-6-0 5-0-0

### LUMBER-

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

### BRACING-

TOP CHORD BOT CHORD WEBS 28-8-0 6-2-0

2-0-0 oc purlins (3-10-14 max.), except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt 7-15, 9-15

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

43-4-0 7-5-12

**REACTIONS.** (lb/size) 2=330/0-3-8, 19=1890/0-8-0, 12=1057/0-11-0

Max Horz 2=180(LC 12)

Max Uplift2=-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 3-4=-280/771, 4-5=-270/833, 5-6=-704/212, 6-7=-1143/331, 7-8=-1062/347,

8-42=-1015/370, 9-42=-1117/344, 9-10=-1341/400, 10-43=-1395/389, 11-43=-1500/385,

11-12=-987/342

BOT CHORD 18-19=-778/201, 17-18=-778/201, 16-17=-178/650, 15-16=-257/1083, 14-15=-272/1272,

12-4-0 5-4-0 17-6-0 5-2-0

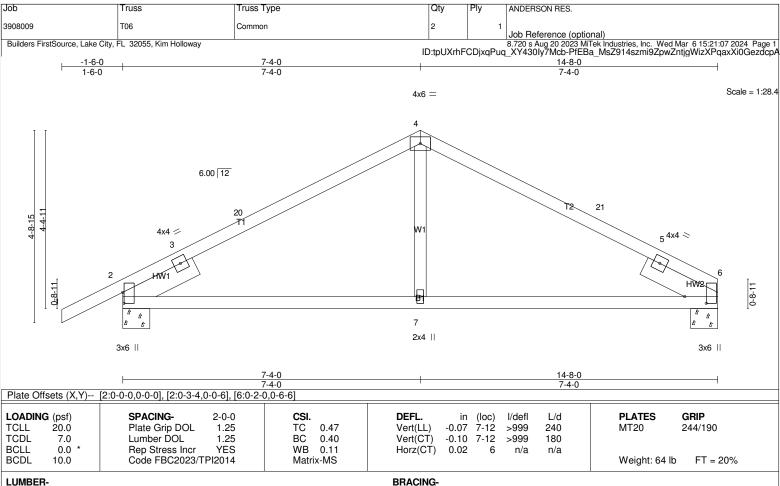
13-14=-272/1272

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-

- 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 43-2-4 to 43-2-4 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) 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 160 lb uplift at joint 2, 556 lb uplift at joint 19 and 276 lb uplift at joint 12.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Installation guide.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

### LUMBER-

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

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 Uplift6=-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

Job Truss Truss Type Qty ANDERSON RES. 3908009 T06G Common Supported Gable Job Reference (optional) 8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:08 2024 Page 1 ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-uroZnKNUKS9xT7LvjGK95\_Q\_mw7PGt3kABSZo5zdcp9 Builders FirstSource, Lake City, FL 32055, Kim Holloway 14-8-0 -1-6-0 1-6-0 7-4-0 7-4-0 Scale = 1:29.4 4x4 = 6 7 6.00 12 5 8 9 3x4 < 3x4 / 3 ø \$T2 10 0-8-11 11 12 16 15 14 13 3x6 II 3x6 II 14-8-0 Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [10:0-2-4,0-2-3] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 in (loc) I/defl L/d

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

-0.00

-0.00

0.00

11

10

TOP CHORD BOT CHORD 2-0-0 oc purlins (6-0-0 max.).

n/r

n/r

n/a

120

120

n/a

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.

MT20

Weight: 75 lb

244/190

FT = 20%

**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

1.25

1.25

YES

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.

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

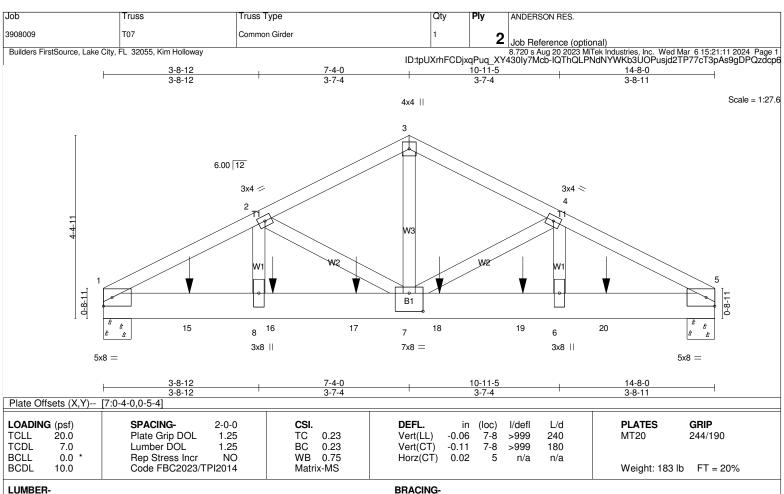
Matrix-S

0.13

0.07

0.04

- 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied or 5-0-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 WFBS

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

3-7=-1042/3925, 4-7=-1192/390, 4-6=-250/1012, 2-7=-1331/426, 2-8=-284/1135 **WEBS** 

### 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.

\* 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 (it=lb) 1=1012,

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

Continued on page 2

Job	Truss	Truss Type	Qty	Ply ANDERSON RES.
Builders FirstSource, Lake City, I		· · · ·	IV-1-505'	2 Job Reference (optional) 8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:11 2024 Page 2 DjxqPuq_XY430Iy7Mcb-IQThQLPNdNYWKb3UOPusjd2TP77cT3pAs9gDPQzdcp6
LOAD CASE(S) Standard Concentrated Loads (lb Vert: 15=-1039	) (F) 16=-1039(F) 17=-1039(F	ID:tpt	JXrhFGDjx	DjxqPuq_XY430Iy7Mcb-IQThQLPNdNYWKb3UOPusjd2TP77cT3pAs9gDPQzdcp6



Lymber design values are in accordance with ANSI/TPI 1 section 6.3

RE: 3908009 - ANDERSON RES.

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd.

Chesterfield, MO 63017 Customer Info: BOB and KATHY ANDERSON Project Name: Anderson Res. Modej 4. Customer Info: BOB and KATHY ANDERSON Project Name: Anderson Res. Modej 4. Customer Info: BOB and KATHY ANDERSON Project Name: Anderson Res.

Lot/Block: N/A Subdivision: N/A

Address: 126 SW Colonial Place, N/A

City: Columbia Cty State: FI

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7

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
2	T33156911	T02	3/7/24
4 5	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



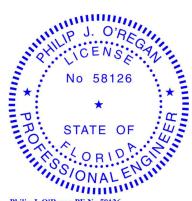
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: ORegan, Philip

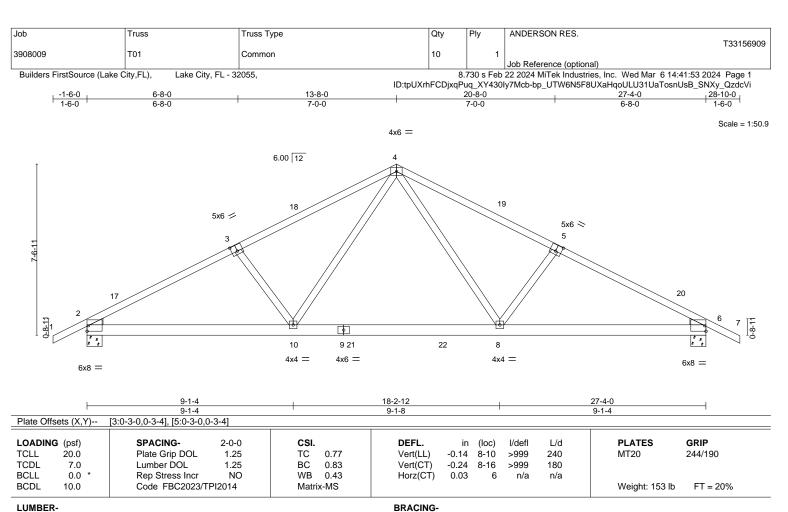
My license renewal date for the state of Florida is February 28, 2025.

**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

March 7,2024



TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No 2 2x4 SP No 3 WFBS

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 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
- 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, with BCDL = 10.0psf.
- 6) 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.
- 7) 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

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.

Structural wood sheathing directly applied or 3-3-1 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

March 7,2024

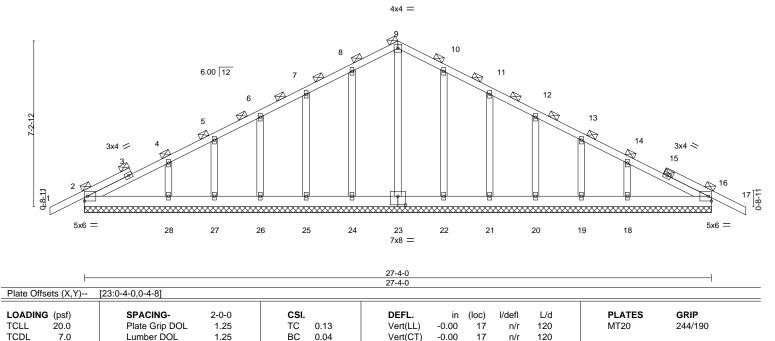


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.	
3908009	T01G	Common Supported Gable	1	1		T33156910
		••			Job Reference (optional)	
Builders FirstSource (Lake C	city,FL), Lake City, FL - 32	2055,	8	.730 s Feb	22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:55 202	4 Page 1
		ID	tpUXrhFCDjx	Puq_XY4	30ly7Mcb-XC6EuC8ddsOCmuRCvvNy8SZ31bldyr_Hvh03	33JzdcVg
1-6-0 _		13-8-0			27-4-0	28-10-0
1-6-0		13-8-0			13-8-0	1-6-0

Scale = 1:50.2



LUMBER-TOP CHORD BOT CHORD

**OTHERS** 

**BCLL** 

BCDL

2x4 SP No.2 2x6 SP No 2 2x4 SP No.3 BRACING-

Horz(CT)

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

16

n/a

n/a

Weight: 183 lb

FT = 20%

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

0.00

REACTIONS. All bearings 27-4-0.

0.0

10.0

(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),

WB

Matrix-S

0.09

18=-104(LC 13)

Rep Stress Incr

Code FBC2023/TPI2014

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-

- 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) 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 9) \* 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.
- 10) 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.
- 11) 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.

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

March 7,2024

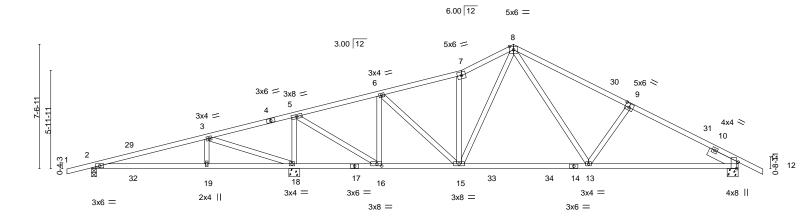


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply ANDERSON RES. T33156911 3908009 T02 Roof Special 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?uqhA1Q8LmcblzdcVf 7-0-0 12-4-0 17-6-0 22-6-0 25-8-0 32-8-0 39-4-0 7-0-0 5-2-0 5-0-0 3-2-0 7-0-0 6-8-0

Scale = 1:70.1



	1	7-0-0	12-4-0	17-6-0	22-6-0	30-2-12	39-4-0	
		7-0-0	5-4-0	5-2-0	5-0-0	7-8-12	9-1-4	
Plate Offsets	(X,Y)	[9:0-3-0,0-3-0], [11:0-4-	·12,Edge], [16:0-3	3-8,0-1-8]				
LOADING (p	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES GRIP	
TCLL 20	0.0	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	0.0	Code FBC2023/	/TPI2014	Matrix-MS	, ,		Weight: 207 lb FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WFBS 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,  $6\text{-}15\text{=-}121/545, 7\text{-}15\text{=-}377/188, 8\text{-}15\text{=-}129/377, 8\text{-}13\text{=-}169/581, 9\text{-}13\text{=-}298/242}$ 

- 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 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
- 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, with BCDL = 10.0psf.
- 6) 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.

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.

Structural wood sheathing directly applied or 3-4-11 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

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

March 7,2024



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



Job Truss Truss Type Qty Ply ANDERSON RES. T33156912 T02G **GABLE** 3908009 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:58 2024 Page 1 ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-xnnNXEAWwnnndL9na2wfm5BQyoaS93ejcfFjfezdcVd 12-4-0 17-6-0 25-8-0 32-8-0 39-4-0 40-10-0 22-6-0

5-0-0

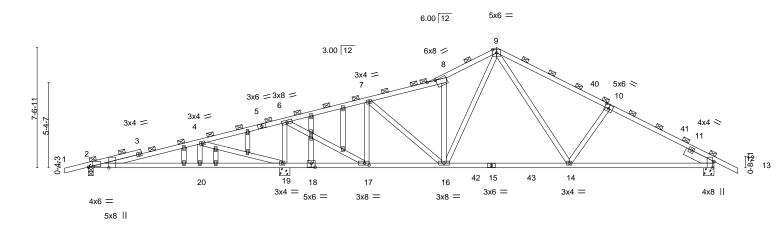
3-2-0

7-0-0

5-2-0

1-6-0 Scale = 1:72.5

6-8-0



	7-0-0	12-0-0	12 <sub>6</sub> 4-0	17-6-0	22-6-0	1	30-2-12		39-4-0	
	7-0-0	5-0-0	0-4-0	5-2-0	5-0-0	1	7-8-12		9-1-4	
Plate Offsets (X,Y)	[2:0-0-9,Edge], [2:0-3-4,0-0	)-5], [8:0-6-5,E	dge], [10:0-3	3-0,0-3-0], [12:	0-4-12,Edge], [17:0-3	3-8,0-1-8], [	18:0-3-0	,0-3-0]		
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL) -0.2	20 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.80	Vert(CT) -0.3	32 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT) 0.0	04 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI	2014	Matrix	c-MS					Weight: 223 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No 2 TOP CHORD 2-0-0 oc purlins (3-5-15 max.).

5-4-0

BOT CHORD 2x4 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 5-7-0 oc bracing. 2x4 SP No 3 WFBS **OTHERS** 2x4 SP No.3

SLIDER Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 12=0-8-0, 19=0-8-0

Max Horz 2=-129(LC 17)

Max Uplift 2=-232(LC 8), 12=-288(LC 13), 19=-625(LC 8) Max Grav 2=330(LC 25), 12=1055(LC 2), 19=1938(LC 2)

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

TOP CHORD 4-6=-403/1120, 6-7=-584/186, 7-8=-997/275, 8-9=-1107/338, 9-10=-1278/373,

10-12=-1407/379

BOT CHORD 17-19=-1061/448, 16-17=-83/515, 14-16=-77/778, 12-14=-233/1205

**WEBS** 4-19=-1032/596, 6-19=-1465/462, 6-17=-418/1774, 7-17=-723/232, 7-16=-147/582,

8-16=-446/208, 9-16=-140/425, 9-14=-169/582, 10-14=-299/242

### 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 2-2-3, Zone1 2-2-3 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
- 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 2-0-0 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 12=288, 19=625,
- 10) 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.

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

March 7,2024

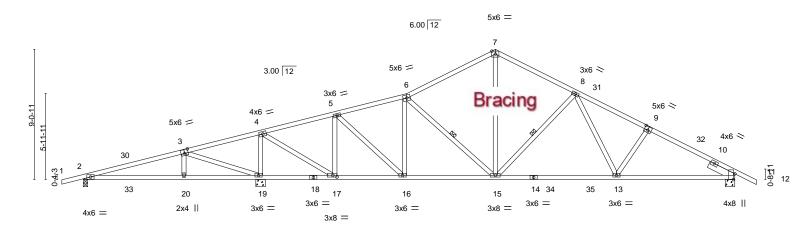


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply ANDERSON RES. T33156913 3908009 T03 5 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:00 2024 Page 1 ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-t9v7xvCmSP1VsfJAiTz7rWHmTcFbdyo03zkpkWzdcVb 17<u>-6-0</u> 22-6-0 28-8-0 34-2-12 39-3-0 5-4-0 5-2-0 5-0-0 6-2-0 5-6-12 5-0-4 6-1-0

Scale = 1:80.2



		7-0-0	5-4-0	5-2-0	5-0-	0 (	0-2-0		o-o-s	0-Z-13	•
Plate Offse	ets (X,Y)	[3:0-3-0,0-3-4], [9:0-3-0,0	)-3-0], [11:0-4-1	2,Edge], [17	':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	0.79	Vert(LL)	-0.26 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.45 13-15	>885	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.07 11	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS					Weight: 247 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

28-8-0

37-1-3

Structural wood sheathing directly applied or 2-5-14 oc purlins.

6-15 8-15

Rigid ceiling directly applied or 5-7-8 oc bracing.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\* 9-12: 2x4 SP No.1

7-0-0

**BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3

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,

### 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 3-0-6, 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
- 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, with BCDL = 10.0psf.
- 6) 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 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 7,2024



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



Job Truss Truss Type Qty Ply ANDERSON RES T33156914 3908009 T03G **GABLE** 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

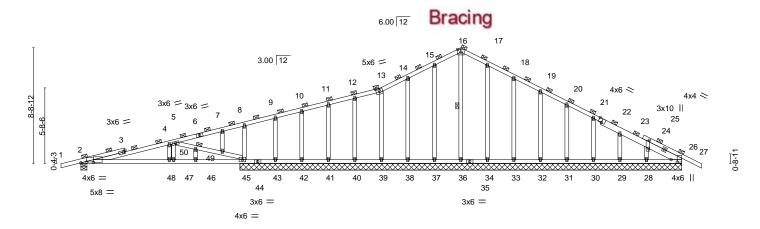
22-6-0

10-2-0

ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-qY1uMbD0\_0HD6zTYpt?bwxM8UQ0e5yeIWHDwoPzdcVZ

28-8-0 45-4-0 16-8-0

Scale = 1:86.9



12-0-0 7-0-0 5-0-0 0-4-0 33-0-0 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. DEFL. (loc) L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) 0.12 2-48 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.46 Vert(CT) -0.16 2-48 >929 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) 0.02 26 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-S Weight: 284 lb FT = 20%

WEBS

LUMBER-**BRACING-**

12<sub>r</sub>4-0

12-4-0 5-4-0

TOP CHORD 2x4 SP No.2 \*Except\* 22-26: 2x6 SP No.2

**BOT CHORD** 2x4 SP No 2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 TOP CHORD 2-0-0 oc purlins (4-9-4 max.).

45-4-0

**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. 1 Row at midpt 16-36

**JOINTS** 1 Brace at Jt(s): 13, 16, 50

REACTIONS. All bearings 33-4-0 except (jt=length) 2=0-5-8.

7-0-0

Max Horz 45=-146(LC 17) (lb) -

> 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/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 2-0-0 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,

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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

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



	Job	Truss	Truss Type	Qty	Ply	ANDERSON RES.
						T33156914
	3908009	T03G	GABLE	1	1	
Į						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\_XY430Iy7Mcb-IkbGaxEelKP3j72INbWqT8vJEpMtqPtSlxyULrzdcVY

### NOTES-

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



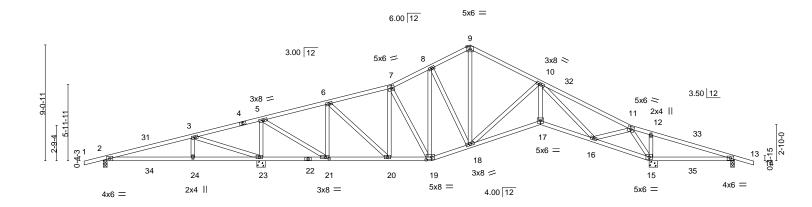




Job Truss Truss Type Qty Ply ANDERSON RES T33156915 3908009 T04 **ROOF SPECIAL** 9 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:04 2024 Page 1

ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-mx9enHFHWdXwLGdxxI13?MRUADjPZiAb\_bi1tHzdcVX 12-4-0 17-6-0 22-6-0 28-8-0 .\_ 34-2-0 41-2-13 49-4-0 25-8-0 7-0-0 5-4-0 5-2-0 5-0-0 3-2-0 3-0-0 5-6-0 7-0-13 6-8-0

Scale = 1:90.1



	ı	7-0-0	5-4-0	5-2-0	5-0-0	3-2-0	3-0-0	5-6-0	1	4-2-0	4-4-0	0-4-0	6-4-0
Plate Off	fsets (X,Y)	[19:0-5-4,0-2-8]	, [21:0-3-8,0-1-8]										
LOADIN	G (psf)	SPACIN	<b>G-</b> 2-0-0	CSI		DEFL.		in (loc)	l/defl	L/d	P	LATES	GRIP
TCLL	20.0	Plate Gri	p DOL 1.25	TC	0.68	Vert(LL)	0.1	1 24-27	>999	240	_ N	1T20	244/190
TCDL	7.0	Lumber I	DOL 1.25	ВС	0.45	Vert(CT	) -0.1	9 17-18	>999	180			
BCLL	0.0 *	Rep Stre	ss Incr YES	WB	0.99	Horz(C	Γ́) 0.1	0 15	n/a	n/a			
BCDL	10.0	Code FE	3C2023/TPI2014	Mat	rix-MS	,	•				v	Veight: 27	9 lb FT = 20%

22-6-0

LUMBER-TOP CHORD

WFBS

2x4 SP No 2 **BOT CHORD** 2x4 SP No 2 2x4 SP No.3 **BRACING-**

25-8-0 28-8-0

34-2-0

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-2-3 oc purlins.

42-8-0 43-0-0

49-4-0

Rigid ceiling directly applied or 5-6-1 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 15=0-8-0, 23=0-8-0.

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

7-0-0

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

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

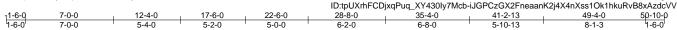
March 7,2024



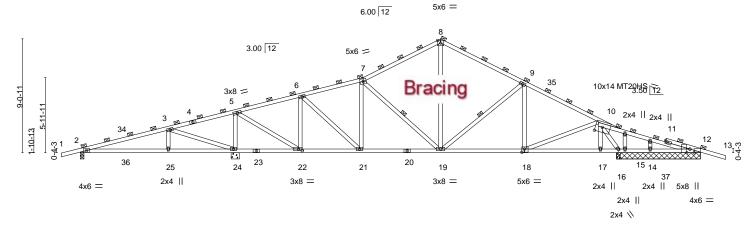








Scale = 1:91.6



	г	7-0-0	5-4-0	5-2-0	5-0-0	6-2-0	6-	8-0	5-10-13	1-8-11 6	6-4-8
Plate Offs	ets (X,Y)	[10:0-6-8,0-4-12], [12:	0-3-8,Edge], [12	:0-4-1,Edge], [	[18:0-2-8,0-3-0]	], [22:0-3-8,0-1-8	3]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.11 25-33	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.13 25-33	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Inc	r YES	WB	0.60	Horz(CT)	0.02 16	n/a	n/a		
BCDL	10.0	Code FBC202	3/TPI2014	Matri	x-MS	` ,				Weight: 272 lb	b FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

**BOT CHORD** 2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 **BRACING-**

28-8-0

TOP CHORD 2-0-0 oc purlins (4-8-4 max.). **BOT CHORD** 

WFBS

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 7-19. 9-19

41-2-13

42-11-8

49-4-0

REACTIONS. All bearings 6-8-0 except (jt=length) 2=0-3-8, 24=0-8-0, 16=0-3-8, 16=0-3-8.

(lb) -Max Horz 2=-158(LC 17)

7-0-0

Max Uplift All uplift 100 lb or less at joint(s) except 12=-170(LC 9), 2=-256(LC 8), 24=-585(LC 8), 14=-141(LC

9). 15=-212(LC 1). 16=-463(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 14, 15, 12 except 2=365(LC 25), 24=1829(LC 1), 16=1505(LC 1), 16=1505(LC 1)

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

TOP CHORD 2-3=-257/266, 3-5=-250/770, 5-6=-694/230, 6-7=-1096/314, 7-8=-989/332,

8-9=-1007/310, 9-10=-1216/326, 10-12=-159/572

**BOT CHORD** 22-24=-717/337, 21-22=-155/640, 19-21=-225/1036, 18-19=-143/1010, 15-16=-511/200,

14-15=-511/200, 12-14=-511/200

**WEBS** 3-25=-143/264, 3-24=-920/563, 5-24=-1434/467, 5-22=-411/1587, 6-22=-731/243,

6-21=-143/527, 7-19=-334/179, 8-19=-145/514, 9-19=-308/205, 10-18=-205/951,

10-16=-1434/398

### 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 51-4-0 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) 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 MT20 plates unless otherwise indicated.
- 6) All plates are 3x6 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 12, 256 lb uplift at joint 2, 585 lb uplift at joint 24, 141 lb uplift at joint 14, 212 lb uplift at joint 15, 463 lb uplift at joint 16 and 170 lb uplift at joint 12.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

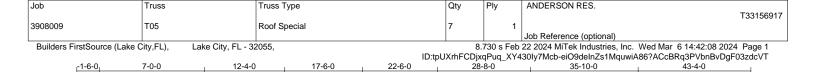
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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

March 7,2024

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Chesterfield MO 63017 314.434.1200 / MiTek-US.com



5-0-0

Scale = 1:76.6

7-6-0

43-4-0

7-6-0

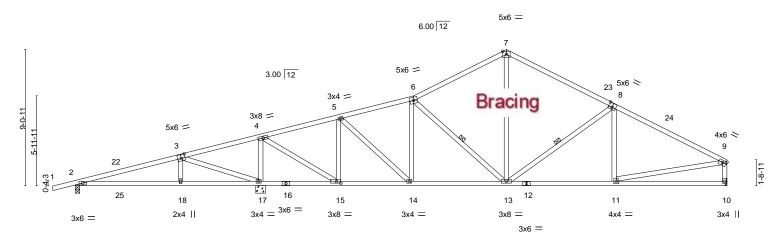


Plate Of	fsets (X,Y)	[3:0-3-0,0-3-0], [8:0-3-0,0	)-3-4], [9:Edge,	0-1-12], [15:0-3-8,0-	I-8]				
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.11 18-21	>999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.17 10-11	>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/T	PI2014	Matrix-MS				Weight: 240 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

5-2-0

TOP CHORD **BOT CHORD** 

WEBS

**BRACING-**

Structural wood sheathing directly applied or 3-11-2 oc purlins,

except end verticals.

28-8-0

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-13, 8-13

7-2-0

7-2-0

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,

5-4-0

5-2-0

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,  $5-14 = -171/572, \ 6-14 = -276/147, \ 6-13 = -323/169, \ 7-13 = -149/558, \ 8-13 = -425/244, \ 6-14 = -171/572, \ 6-14 = -171$ 

### 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 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
- 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) Refer to girder(s) for truss to truss connections.
- 7) 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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March 7,2024



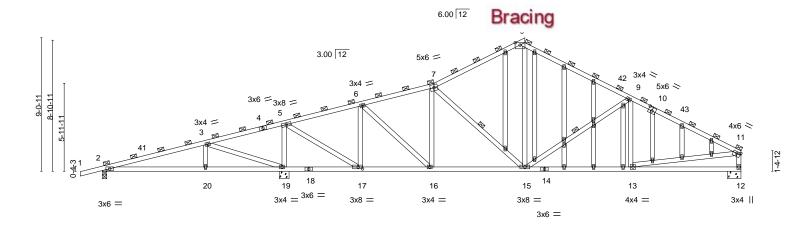
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Job Truss Truss Type Qty Ply ANDERSON RES. T33156918 3908009 T05G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:10 2024 Page 1

ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-b4Wv2KJ15TH43B45HZ8TFdhWHekmzVDUMX9L5xzdcVR 12-4-0 17-6-0 22-6-0 28-8-0 35-10-4 43-4-0 7-0-0 5-4-0 5-0-0 6-2-0 7-2-4 7-5-12

Scale = 1:78.2



1	7-0-0	12-4-0	17-6-0	22-6-0	28-8-0	35-10-4	43-4-0	
	7-0-0	5-4-0	5-2-0	5-0-0	6-2-0	7-2-4	7-5-12	
Plate Offsets (X,Y)	[10:0-3-0,0-3-0], [11:0-3	3-0,0-1-8], [17:0-3-	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 0.64	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%	

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (3-10-14 max.), except end verticals.

7-15 9-15

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS **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-

- 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 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
- 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 2-0-0 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 160 lb uplift at joint 2, 556 lb uplift at joint 19 and 276 lb uplift at joint 12.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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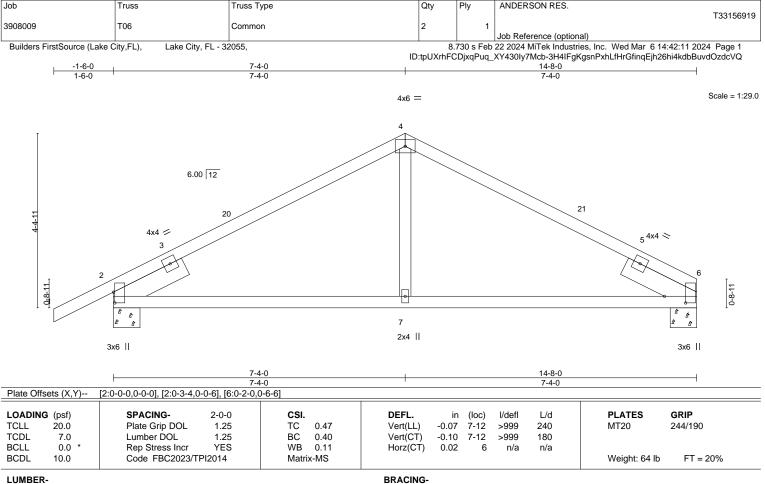
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March 7,2024



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TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

6=0-8-0, 2=0-8-0 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-

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

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

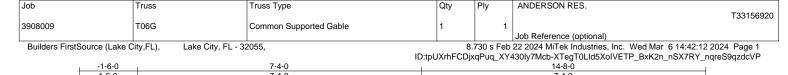
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

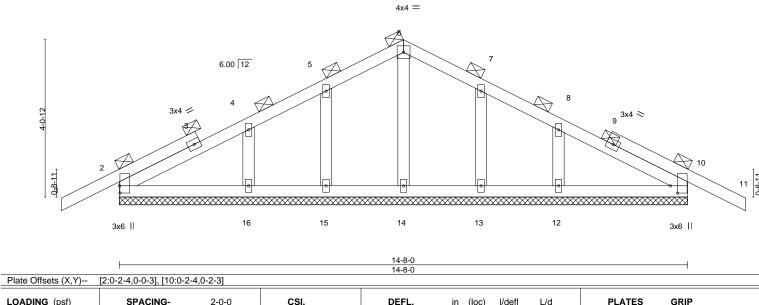
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Scale = 1:29.7



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/TI	PI2014	Matri	x-S						Weight: 75 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

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

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.

- 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) 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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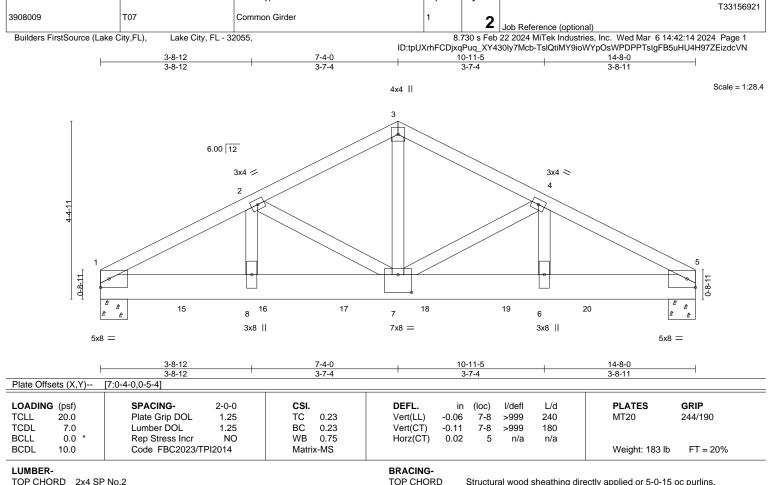
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**BOT CHORD** 

Qty

Ply

ANDERSON RES.

Rigid ceiling directly applied or 10-0-0 oc bracing.

WFBS

Job

Truss

Truss Type

2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E 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. 1-2=-5982/1601, 2-3=-4690/1275, 3-4=-4690/1275, 4-5=-5851/1567 TOP CHORD BOT CHORD 1-8=-1445/5297. 7-8=-1445/5297. 6-7=-1352/5178. 5-6=-1352/5178

WFBS

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

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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 2 ID:tpUXrhFCDjxqPuq\_XY430Iy7Mcb-TslQtiMY9ioWYpOsWPDPPTslgFB5uHU4H97ZEizdcVN

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 9-12=-20

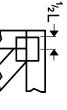
Concentrated Loads (lb)

Vert: 15=-1039(F) 16=-1039(F) 17=-1039(F) 18=-1039(F) 19=-1039(F) 20=-1039(F)

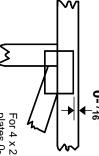


### Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



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

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

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

### PLATE SIZE

4 × 4

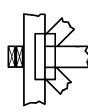
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

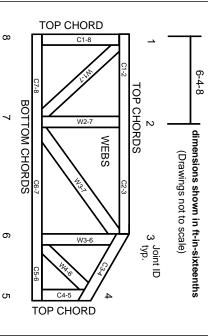
### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

## **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/TPI 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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.