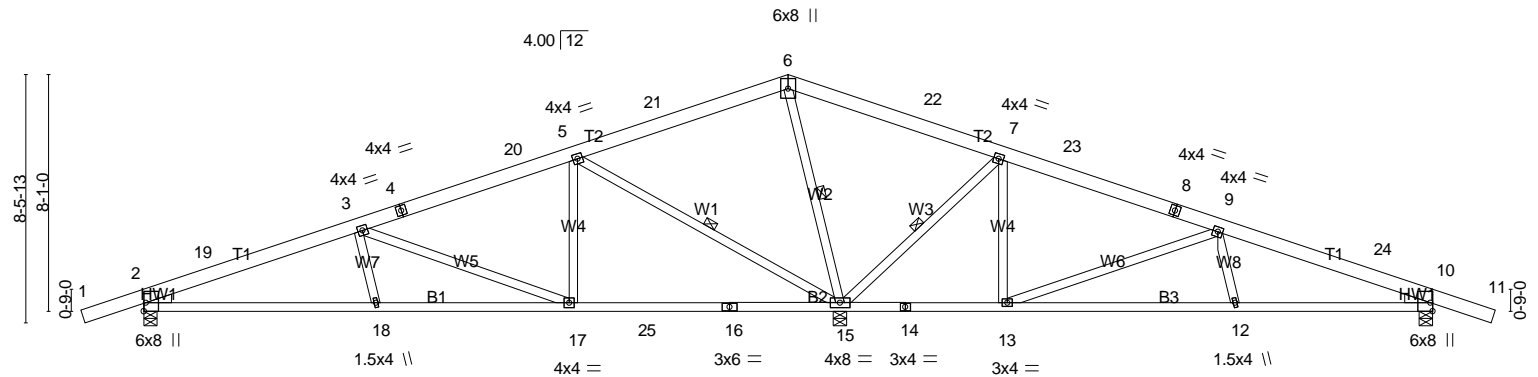
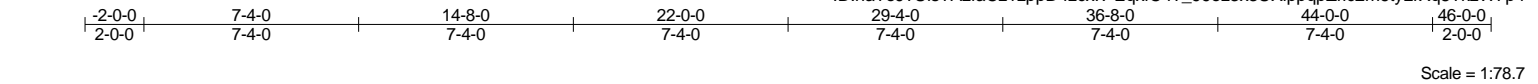


Job	Truss	Truss Type	Qty	Ply	
111426	A1	COMMON	3	1	Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:20:57 2021 Page 1  
ID:haToJ?UlsTAzfaCz1zppD4zcxlv-EqxfC4?\_99oz3x3UXippqpZric2m6tyLrXq8TkzW7p4



	7-11-1	14-8-0	23-9-4	29-4-0	37-3-1	44-0-0
	7-11-1	6-8-15	9-1-4	5-6-12	7-11-1	6-8-15
Plate Offsets (X,Y)--	[2:Edge,0-0-14], [10:Edge,0-0-14]					

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSL</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.17 15-17 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.31 15-17 >910 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.05 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 209 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD
WEBS 2x4 SPF 1650F 1.5E *Except*	WEBS
W7,W4,W8: 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud	Structural wood sheathing directly applied or 6-0-0 oc purlins.
WEDGE	Rigid ceiling directly applied or 6-0-0 oc bracing.
Left: 2x4 HF or DF or SPF Stud, Right: 2x4 HF or DF or SPF Stud	1 Row at midpt 5-15, 6-15, 7-15
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1152/0-5-8 (min. 0-2-1), 15=3688/0-5-8 (req. 0-5-13), 10=846/0-5-8 (min. 0-1-10)  
Max Horz 2=150(LC 14)  
Max Uplift 2=-271(LC 10), 15=-375(LC 10), 10=-260(LC 11)  
Max Grav 2=1331(LC 21), 15=3688(LC 1), 10=1038(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/58, 2-19=-2007/274, 3-19=-1885/296, 3-4=-878/186, 4-20=-772/228, 5-20=-652/279, 5-21=-68/1333, 6-21=-52/1472, 6-22=-102/1880, 7-22=-117/1671, 7-23=-86/993, 8-23=-97/942, 8-9=-111/901, 9-24=-1134/268, 10-24=-1259/246, 10-11=0/58  
BOT CHORD 2-18=-338/1753, 17-18=-319/1787, 17-25=-216/733, 16-25=-216/733, 15-16=-216/733, 14-15=-894/198, 13-14=-894/198, 12-13=-203/1018, 10-12=-167/1055  
WEBS 3-18=0/281, 3-17=-1208/234, 5-17=0/739, 5-15=-2102/345, 6-15=-1698/271, 7-15=-1759/322, 7-13=-13/646, 9-13=-1260/248, 9-12=0/325

**JOINT STRESS INDEX**  
2 = 0.58, 2 = 0.37, 2 = 0.58, 3 = 0.40, 4 = 0.31, 5 = 0.65, 6 = 0.80, 7 = 0.56, 8 = 0.33, 9 = 0.47, 10 = 0.37, 10 = 0.29, 10 = 0.37, 12 = 0.51, 13 = 0.66, 14 = 0.39, 15 = 0.81, 16 = 0.79, 17 = 0.56 and 18 = 0.51

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 2-3-15, Interior(1) 2-3-15 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
  - 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 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, with BCDL = 10.0psf.
  - 8) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.

Continued on page 2

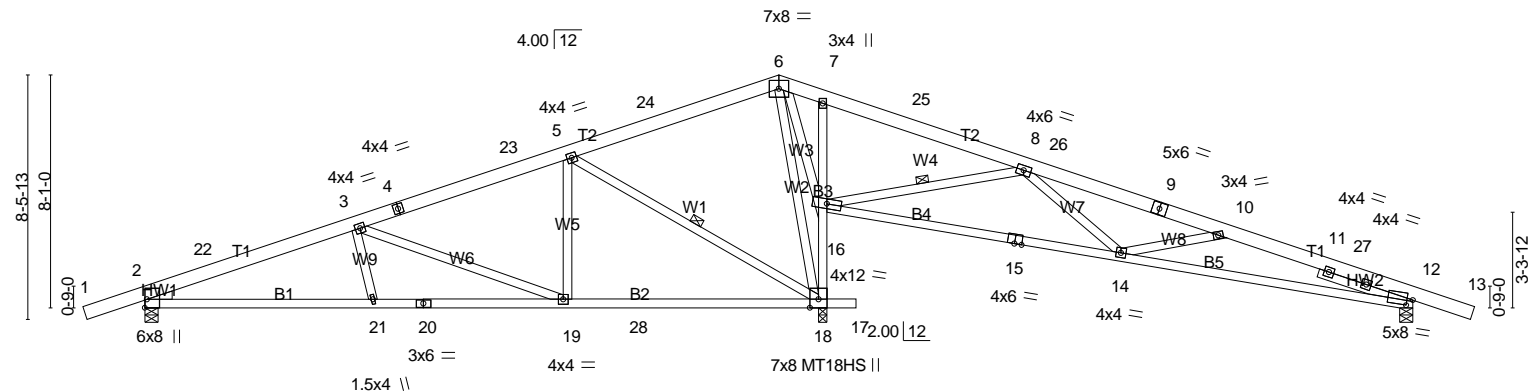
Job	Truss	Truss Type	Qty	Ply	
111426	A1	COMMON	3	1	Job Reference (optional)

**NOTES-**  
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 2, 375 lb uplift at joint 15 and 260 lb uplift at joint 10.  
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:20:59 2021 Page 1  
ID:haToJ?UlsTAzfaCz1zppD4zcxlv-AC3Pdm1Fhn2gJFDse7rhVfEfcYQdga0aerJEXczW7p2

Scale = 1:79.9



	7-11-0	14-8-0	23-8-0	23-9-0	33-10-8	44-0-0
	7-11-0	6-9-0	9-0-0	0-1-0	10-1-8	10-1-8
Plate Offsets (X,Y)-- [2:Edge,0-0-14], [12:0-2-6,0,2-9]						
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0		<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.29 14-16	>864 240	MT20	185/144
(Roof Snow=40.0)	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.56 14-16	>440 180	MT18HS	197/144
TCDL 10.0	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.07 18	n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-SH			Weight: 221 lb	FT = 10%
BCDL 10.0						

**LUMBER-**

TOP CHORD 2x6 SPF 1650F 1.5E  
BOT CHORD 2x4 SPF 1650F 1.5E  
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*  
W6,W1,W2: 2x4 SPF 1650F 1.5E  
WEDGE  
Left: 2x4 HF or DF or SPF Stud  
SLIDER Right 2x4 HF or DF or SPF Stud -a 3-5-1

## BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-13 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-7 oc bracing: 12-14. 3-6-0 oc bracing: 16-18	
WEBS	1 Row at midpt	5-18, 8-16

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

**REACTIONS.** (lb/size) 2=1463/0-5-8 (min. 0-2-9), 18=2978/0-3-8 (req. 0-4-11), 12=1270/0-5-8 (min. 0-2-1)

Max Horiz 2=150(LC 18)  
Max Uplift2=-329(LC 10), 18=-229(LC 10), 12=-326(LC 11)  
Max Grav2=1617(LC 21), 18=2978(LC 1), 12=1351(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

TOP CHORD  
1-2=0/58, 2-22=-2776/451, 3-22=-2653/479, 3-4=-1701/353, 4-23=-1594/363, 5-23=-1474/378, 5-24=0/430,  
6-24=0/541, 6-7=0/829, 7-25=0/959, 8-25=0/761, 8-26=-2308/513, 9-26=-2455/511, 9-10=-2521/496, 10-11=-3220/741  
, 11-27=-3222/730, 12-27=-3356/717, 12-13=0/47

BOT CHORD  
2-21=-465/2467, 20-21=-445/2500, 19-20=-445/2500, 19-28=-240/1512, 18-28=-240/1512, 17-18=0/0,  
16-18=-3263/617, 7-16=-942/222, 15-16=-336/1779, 14-15=-348/1572, 12-14=-616/3043

WEBS  
3-21=0/280, 3-19=-1122/220, 5-19=0/717, 5-18=-2012/332, 6-18=-376/1093, 6-16=-1831/365, 8-16=-2484/488,  
8-14=0/1055, 10-14=-768/299

### JOINT STRESS INDEX

2 = 0.80, 2 = 0.37, 2 = 0.80, 3 = 0.40, 4 = 0.35, 5 = 0.62, 6 = 0.84, 7 = 0.53, 8 = 0.79, 9 = 0.81, 10 = 0.28, 11 = 0.00, 12 = 0.84, 12 = 0.87, 12 = 0.87, 14 = 0.74, 15 = 0.70, 16 = 0.70, 18 = 0.54, 19 = 0.54, 20 = 0.95 and 21 = 0.51

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-0-14 to 2-3-15, Interior(1) 2-3-15 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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 BC DL = 10.0psf.

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Job	Truss	Truss Type	Qty	Ply	
111426	A2	SCISSOR	4	1	Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:20:59 2021 Page 2  
ID:haToJ?UlsTAzfaCz1zppD4zcxlV-AC3Pdm1Fhn2gJFDse7rHvEfCYQdgaoaElrJEXczW7p2

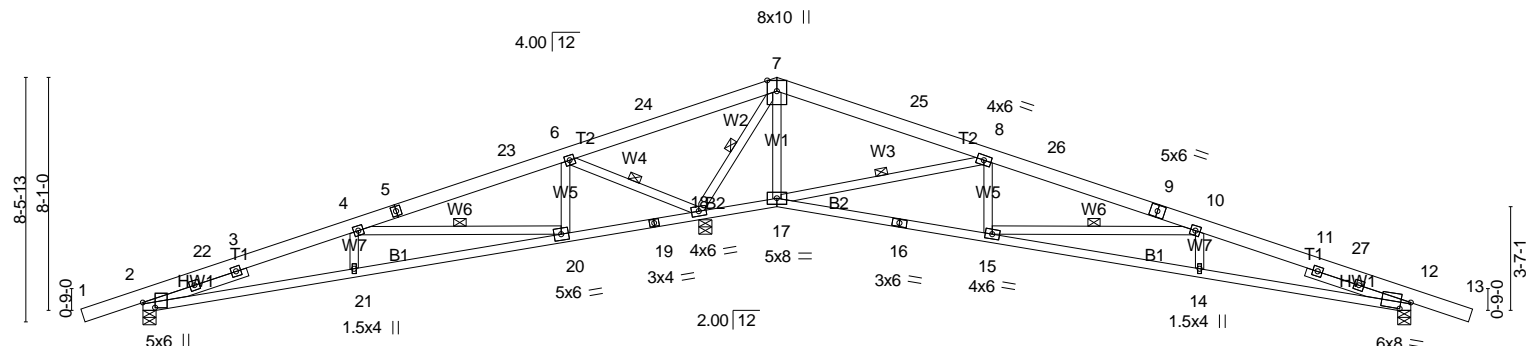
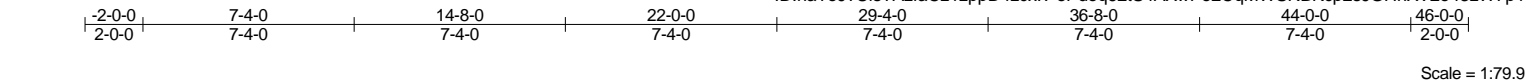
- NOTES-**
- 9) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
  - 10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 2, 229 lb uplift at joint 18 and 326 lb uplift at joint 12.
  - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	
111426	A3	Scissor	7	1	

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:00 2021 Page 1  
ID:haToJ?UlsTAzfaCz1zppD4zcxlv-ePdoq62tS4AXwPo2CqMWSRBKcp2sJGHnXV2o43zW7p1



	7-4-0	14-8-0	19-3-8	22-0-0	29-4-0	36-8-0	44-0-0
	7-4-0	7-4-0	4-7-8	2-8-8	7-4-0	7-4-0	7-4-0

LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.67	Vert(LL)	-0.32 14-15	I/defl	L/d	MT20	185/144
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.46 14-15	>911	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.10 12	>641	180		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH				n/a	n/a		
BCDL	10.0									Weight: 205 lb	FT = 10%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 4-8-12 oc purlins.
BOT CHORD	2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied or 5-3-8 oc bracing.
WEBS	2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*	WEBS	1 Row at midpt 8-17, 10-15, 4-20, 6-18, 7-18
	W3,W6: 2x4 SPF 1650F 1.5E		
SLIDER	Left 2x4 HF or DF or SPF Stud -# 3-9-10,		
	Right 2x4 HF or DF or SPF Stud -# 3-9-10		

**REACTIONS.** (lb/size) 2=805/0-5-8 (min. 0-1-8), 12=1253/0-5-8 (min. 0-2-3), 18=3634/0-5-8 (req. 0-5-11)  
Max Horz 2=150(LC 14)  
Max Uplift 2=-232(LC 10), 12=-311(LC 11), 18=-365(LC 10)  
Max Grav 2=985(LC 21), 12=1420(LC 22), 18=3634(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/47, 2-22=-1749/419, 3-22=-1640/441, 3-4=-1570/493, 4-5=-129/1810, 5-23=-114/1820, 6-23=-104/1901,  
6-24=-338/3127, 7-24=-323/3336, 7-25=-115/1645, 8-25=-130/1437, 8-26=-1829/406, 9-26=-1968/390,  
9-10=-2031/383, 10-11=-3408/640, 11-27=-3485/622, 12-27=-3631/612, 12-13=0/47  
BOT CHORD 2-21=-420/1521, 20-21=-422/1522, 19-20=-1787/365, 18-19=-1773/372, 17-18=-1491/415, 16-17=-192/1903,  
15-16=-200/1889, 14-15=-516/3292, 12-14=-515/3285  
WEBS 7-17=-31/870, 8-17=-2998/505, 8-15=0/530, 10-15=-1595/313, 10-14=0/276, 6-20=-4/586, 4-20=-2068/358,  
4-21=0/301, 6-18=-2333/418, 7-18=-3207/405

**JOINT STRESS INDEX**  
2 = 0.73, 2 = 0.46, 2 = 0.00, 4 = 0.81, 5 = 0.72, 6 = 0.78, 7 = 0.95, 8 = 0.75, 9 = 0.66, 10 = 0.63, 11 = 0.00, 12 = 0.90, 12 = 0.95, 12 = 0.95, 14 = 0.51, 15 = 0.73,  
16 = 0.72, 17 = 0.98, 18 = 0.89, 19 = 0.39, 20 = 0.69 and 21 = 0.51

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 2-3-15, Interior(1) 2-3-15 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
  - 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 6) All plates are 4x4 MT20 unless otherwise indicated.
  - 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) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
111426	A3	Scissor	7	1	Job Reference (optional)

NOTES-

- 10) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2, 311 lb uplift at joint 12 and 365 lb uplift at joint 18.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Reference (optional)

ID:haToJ?UlsTAzfaCz1zppD4zcxlv-XAsIgT5NWJgzP06qRgRScHM3VQQHF5UNS70?CqzW7oz

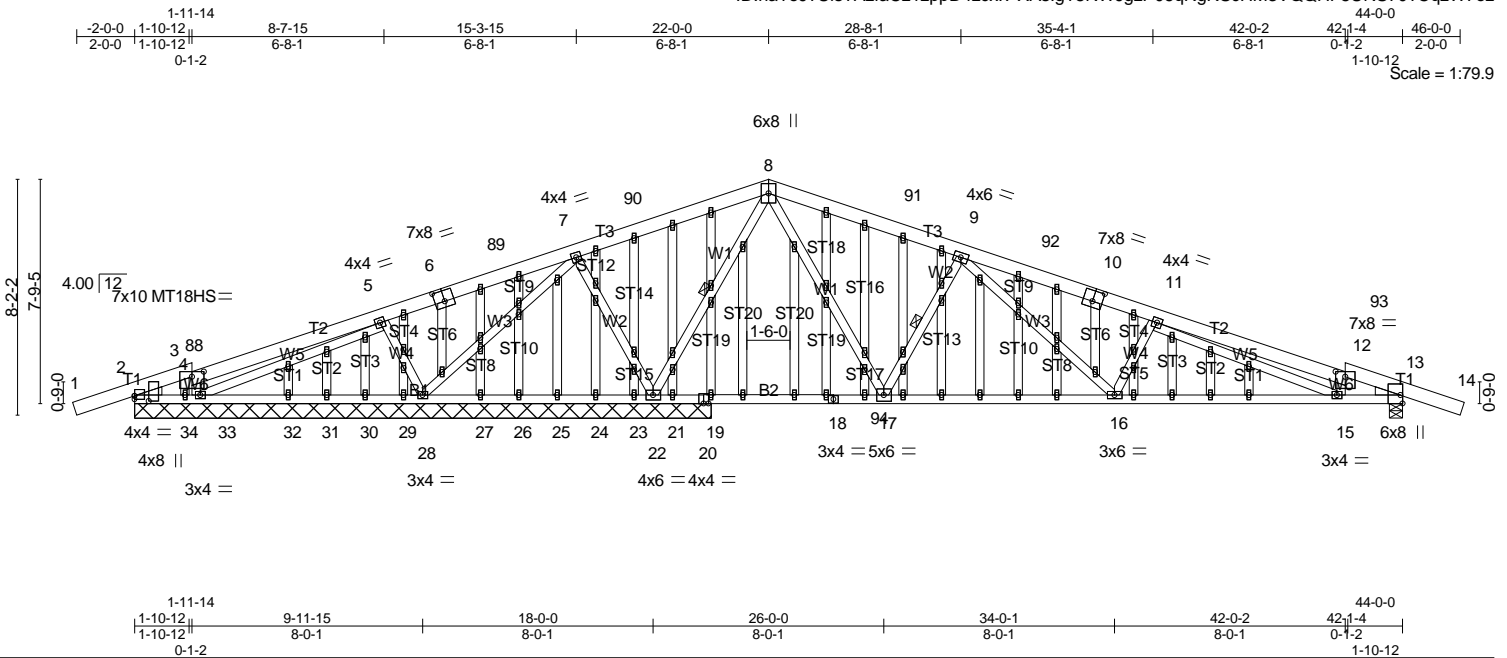


Plate Offsets (X,Y)-- [2:0-0-0,0-1-6], [2:0-2-3,0-5-14], [4:0-5-0,0-2-2], [6:0-4-0,0-4-8], [10:0-4-0,0-4-8], [12:0-4-0,0-2-2], [13:Edge,0-0-14]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES GRIP</b>		
TCLL	40.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.16	15-16	>999	240	MT20	185/144
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	15-16	>999	180	MT18HS	185/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH								
BCDL	10.0										Weight: 357 lb	FT = 10%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 5-3-6 oc purlins.
BOT CHORD	2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS	2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*		10-0-0 oc bracing: 16-17,15-16,13-15.
	W1,W3: 2x4 SPF 1650F 1.5E	WEBS	1 Row at midpt                      9-17, 8-22
OTHERS	2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
WEDGE			
Left:	2x4 HF or DF or SPF Stud , Right: 2x4 HF or DF or SPF Stud		

**REACTIONS.** (lb/size) 2=305/20-0-0 (min. 0-6-10), 22=2961/20-0-0 (min. 0-6-10), 28=267/20-0-0 (min. 0-6-10), 33=872/20-0-0 (min. 0-6-10), 34=470/20-0-0 (min. 0-6-10), 32=53/20-0-0 (min. 0-6-10), 31=14/20-0-0 (min. 0-6-10), 30=32/20-0-0 (min. 0-6-10), 29=11/20-0-0 (min. 0-6-10), 27=36/20-0-0 (min. 0-6-10), 26=24/20-0-0 (min. 0-6-10), 25=27/20-0-0 (min. 0-6-10), 24=29/20-0-0 (min. 0-6-10), 23=9/20-0-0 (min. 0-6-10), 21=112/20-0-0 (min. 0-6-10), 19=158/20-0-0 (min. 0-6-10), 13=1474/0-5-8 (min. 0-2-7)

Max Horz 2=-144(LC 15)

Max Uplift 2=-116(LC 10), 22=-406(LC 11), 28=-294(LC 22), 33=-260(LC 10), 34=-512(LC 20), 21=-210(LC 4), 13=-318(LC 11)

Max Grav 2=627(LC 20), 22=2973(LC 22), 28=610(LC 21), 33=911(LC 21), 34=172(LC 10), 32=108(LC 23), 31=27(LC 5), 30=64(LC 23), 29=21(LC 5), 27=72(LC 5), 26=47(LC 23), 25=54(LC 5), 24=57(LC 23), 23=29(LC 5), 19=342(LC 23), 13=1570(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-3=-83/218, 3-4=-119/94, 4-88=-60/204, 5-88=-59/338, 5-6=-51/508, 6-89=-38/582, 7-89=-28/693,  
7-90=-53/1469, 8-90=-40/1553, 8-91=-638/263, 9-91=-812/240, 9-92=-2121/420, 10-92=-2238/407, 10-11=-2341/397,  
11-93=-2513/404, 12-93=-2532/381, 12-13=-2657/364, 13-14=0/58

BOT CHORD 2-34=-179/134, 33-34=-179/134, 32-33=-386/147, 31-32=-386/147, 30-31=-386/147, 29-30=-386/147, 28-29=-386/147  
, 27-28=-1125/256, 26-27=-1125/256, 25-26=-1125/256, 24-25=-1125/256, 23-24=-1125/256, 22-23=-1125/256,  
21-22=-198/178, 20-21=-198/178, 19-20=-198/178, 18-19=-198/178, 17-18=-198/178,  
16-17=-95/1288, 15-16=-307/2437, 13-15=-299/2318

WEBS 8-17=-227/1649, 9-17=-1487/325, 9-16=-169/1198, 11-16=-719/241, 11-15=-273/125, 12-15=0/226, 8-22=-2622/371,  
7-22=-979/254, 7-28=-90/848, 5-28=-640/229, 5-33=-46/167, 4-33=-747/269, 3-34=-152/324

**JOINT STRESS INDEX**  
 2 = 0.72, 2 = 0.16, 3 = 0.12, 4 = 0.68, 4 = 0.68, 5 = 0.42, 6 = 0.19, 7 = 0.62, 8 = 0.66, 9 = 0.60, 10 = 0.22, 11 = 0.42, 12 = 0.51, 13 = 0.76, 13 = 0.19, 13 = 0.76, 15 = 0.54, 16 = 0.82, 17 = 0.77, 18 = 0.26, 19 = 0.51, 20 = 0.69, 21 = 0.51, 22 = 0.82, 23 = 0.51, 24 = 0.51, 25 = 0.51, 26 = 0.51, 27 = 0.51, 28 = 0.78, 29 = 0.51, 30 = 0.51, 31 = 0.51, 32 = 0.51, 33 = 0.54, 34 = 0.51, 35 = 0.51, 36 = 0.52, 37 = 0.51, 38 = 0.52, 39 = 0.51, 40 = 0.51, 41 = 0.51, 42 = 0.51, 42 = 0.51, 43 = 0.51, 44 = 0.51, 45 = 0.51, 45 = 0.51, 46 = 0.51, 47 = 0.51, 47 = 0.51, 48 = 0.51, 49 = 0.51, 50 = 0.51, 50 = 0.51, 51 = 0.51, 52 = 0.51, 52 = 0.51, 53 = 0.51, 54 = 0.52, 54 = 0.52, 55 = 0.51, 56 = 0.52, 56 = 0.52, 57 = 0.51, 58 = 0.51, 59 = 0.51, 60 = 0.52, 60 = 0.52, 61 = 0.51, 62 = 0.51, 63 = 0.52, 63 = 0.52, 64 = 0.51, 65 = 0.51, 66 = 0.51, 66 = 0.51, 67 = 0.51, 68 = 0.51, 69 = 0.51, 69 = 0.51, 70 = 0.51, 71 = 0.51, 72 = 0.51, 73 = 0.51, 74 = 0.51, 74 = 0.51, 75 = 0.51, 76 = 0.51, 77 = 0.51, 77 = 0.51, 78 = 0.51, 79 = 0.51, 80 = 0.51, 81 = 0.51, 81 = 0.51, 82 = 0.51, 83 = 0.51, 84 = 0.51, 85 = 0.51, 86 = 0.51 and 87 = 0.51

Job	Truss	Truss Type	Qty	Ply	
111426	A3A	GABLE	2	1	Job Reference (optional)

8,420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:05 2021 Page 2  
ID:haToJ?UlsTAzfaCz1zppD4zcxlv-?MQhtp6?Hdoq1Ah0?Oyh9VvEEqmW\_YkWhnmZkGzW7oy

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 2-3-15, Interior(1) 2-3-15 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 1.5x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2, 406 lb uplift at joint 22, 294 lb uplift at joint 28, 260 lb uplift at joint 33, 512 lb uplift at joint 34, 210 lb uplift at joint 21 and 318 lb uplift at joint 13.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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ID:haToJ?UlsTAzfaCz1zppD4zcXly-TY 3596e2wwheKFCY5TwhiRL8E6MizNgvRV6GizW7ox

<b>LUMBER-</b> TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except* W6,W2: 2x4 SPF 1650F 1.5E SLIDER Left 2x4 HF or DF or SPF Stud - 3-8-7, Right 2x4 HF or DF or SPF Stud - 3-8-7	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins. BOT CHORD Rigid ceiling directly applied or 4-9-6 oc bracing. WEBS 1 Row at midpt 4-20, 6-18, 10-15, 7-17, 8-17 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">           MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         </div>
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**FORCES.** (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/47, 2-22=-3189/514, 3-22=-3047/524, 3-4=-2978/541, 4-5=-1512/390, 5-23=-1447/413, 6-23=-1309/470, 6-24=-212/2060, 7-24=-196/2271, 7-25=-331/3259, 8-25=-347/3048, 8-26=-200/1568, 9-26=-211/1514, 9-10=-225/1475, 10-11=-1938/509, 11-27=-2027/492, 12-27=-2124/490, 12-13=0/47
BOT CHORD	2-21=-575/2871, 20-21=-576/2878, 19-20=-412/1388, 18-19=-397/1402, 17-18=-2094/493, 16-17=-1448/314, 15-16=-1465/304, 14-15=-395/1876, 12-14=-394/1874
WEBS	7-18=-49/647, 4-21=0/276, 6-20=0/543, 8-15=0/565, 10-14=0/294, 4-20=-1697/328, 6-18=-3059/519, 10-15=-1984/336, 7-17=-2853/375, 8-17=-2674/469

**JOINT STRESS INDEX**  
2 = 0.79, 2 = 0.83, 2 = 0.83, 3 = 0.00, 4 = 0.67, 5 = 0.65, 6 = 0.77, 7 = 0.97, 8 = 0.96, 9 = 0.64, 10 = 0.78, 11 = 0.00, 12 = 0.88, 12 = 0.56, 12 = 0.56, 14 = 0.51, 15 = 0.66, 16 = 0.35, 17 = 0.74, 18 = 0.99, 19 = 0.67, 20 = 0.77 and 21 = 0.51

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 2-3-15, Interior(1) 2-3-15 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) All plates are 4x4 MT20 unless otherwise indicated.
- 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) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
111426	A4	SCISSORS	15	1	Job Reference (optional)

NOTES-

- 10) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 2, 276 lb uplift at joint 12 and 356 lb uplift at joint 17.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 17.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

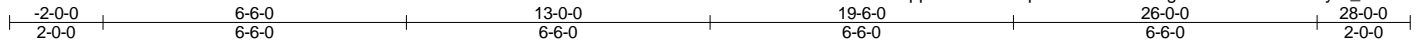
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
111426	B1	COMMON	4	1	

Job Reference (optional)

8,420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:08 2021 Page 1

ID:haToJ?UlsTAzfaCz1zppD4zcxlV-Px6pWr8uaYAPudPbgWVom7Xi72lABzuyNI\_DLbzW7ov



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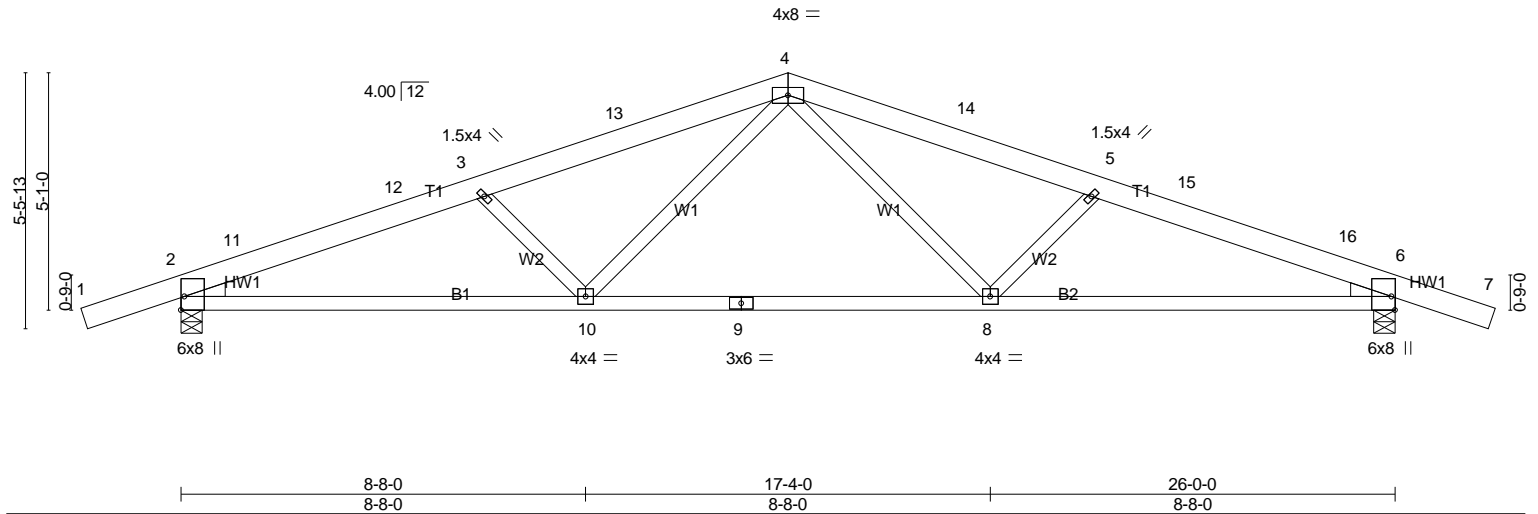


Plate Offsets (X,Y)-- [2:Edge,0-0-14], [6:Edge,0-0-14]		8-8-0		17-4-0		26-0-0	
		8-8-0		8-8-0		8-8-0	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.17 8-10	>999	240
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.32 8-10	>964	180
TCDL 10.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.10 6	n/a	n/a
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-SH				
BCDL 10.0							
				Weight: 114 lb FT = 10%			

#### LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E  
 BOT CHORD 2x4 SPF 1650F 1.5E  
 WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud  
 WEDGE  
 Left: 2x4 HF or DF or SPF Stud , Right: 2x4 HF or DF or SPF Stud

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=1763/0-5-8 (min. 0-2-14), 6=1763/0-5-8 (min. 0-2-14)  
 Max Horz 2=94(LC 14)  
 Max Uplift 2=-305(LC 10), 6=-305(LC 11)  
 Max Grav 2=1820(LC 21), 6=1820(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-11=-3391/494, 11-12=-3289/505, 3-12=-3171/518, 3-13=-2848/448, 4-13=-2688/461, 4-14=-2688/461,  
 5-14=-2848/448, 5-15=-3171/518, 15-16=-3289/505, 6-16=-3391/493, 6-7=0/58  
 BOT CHORD 2-10=-395/3048, 9-10=-221/2059, 8-9=-221/2059, 6-8=-405/3048  
 WEBS 4-8=-85/945, 5-8=-723/230, 4-10=-84/945, 3-10=-723/230

#### JOINT STRESS INDEX

2 = 0.97, 2 = 0.39, 2 = 0.97, 3 = 0.54, 4 = 0.87, 5 = 0.54, 6 = 0.97, 6 = 0.39, 6 = 0.97, 8 = 0.63, 9 = 0.91 and 10 = 0.63

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 28-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 305 lb uplift at joint 2 and 305 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	
111426	B1A	GABLE	1	1	Job Reference (optional)

8,420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:10 2021 Page 1  
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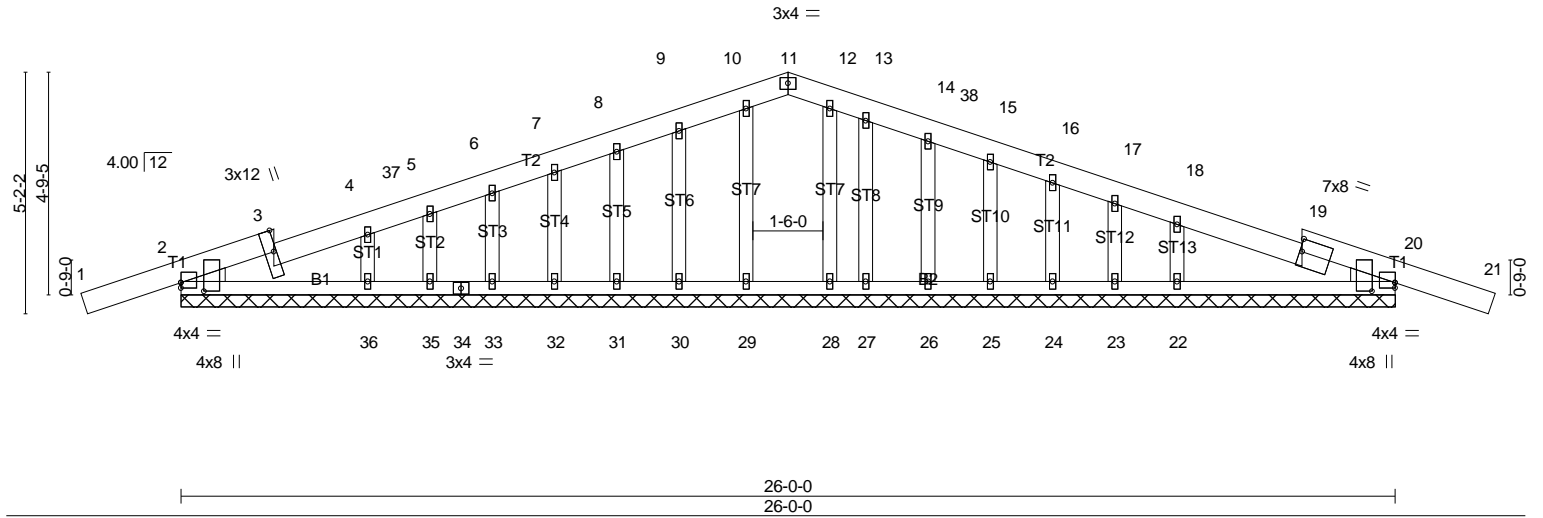
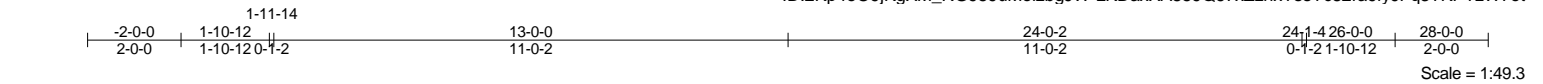


Plate Offsets (X,Y)-- [2:0-2-3,0-5-14], [2:0-0-0,0-1-6], [3:0-5-8,Edge], [19:0-0-9,0-3-4], [20:0-0-0,0-1-6], [20:0-2-3,0-5-14]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.15	Vert(LL) 0.00 21 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) 0.01 21 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 20 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 137 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud	Structural wood sheathing directly applied or 6-0-0 oc purlins.
WEDGE	Rigid ceiling directly applied or 6-0-0 oc bracing.
Left: 2x4 HF or DF or SPF Stud, Right: 2x4 HF or DF or SPF Stud	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=492/26-0-0 (min. 0-5-9), 29=183/26-0-0 (min. 0-5-9), 28=144/26-0-0 (min. 0-5-9), 36=353/26-0-0 (min. 0-5-9), 35=91/26-0-0 (min. 0-5-9), 33=165/26-0-0 (min. 0-5-9), 32=160/26-0-0 (min. 0-5-9), 31=160/26-0-0 (min. 0-5-9), 30=164/26-0-0 (min. 0-5-9), 27=121/26-0-0 (min. 0-5-9), 26=159/26-0-0 (min. 0-5-9), 25=162/26-0-0 (min. 0-5-9), 24=169/26-0-0 (min. 0-5-9), 23=31/26-0-0 (min. 0-5-9), 20=513/26-0-0 (min. 0-5-9), 22=468/26-0-0 (min. 0-5-9)

Max Horz 2=-88(LC 15)

Max Uplift 2=-141(LC 10), 36=-78(LC 20), 35=-40(LC 10), 33=-29(LC 14), 32=-33(LC 10), 31=-34(LC 10), 30=-39(LC 10), 27=-27(LC 15), 26=-37(LC 15), 25=-36(LC 11), 24=-27(LC 15), 23=-35(LC 11), 20=-157(LC 11), 22=-83(LC 15)

Max Grav 2=554(LC 20), 29=227(LC 21), 28=172(LC 22), 36=357(LC 21), 35=137(LC 21), 33=223(LC 21), 32=216(LC 21), 31=217(LC 21), 30=228(LC 21), 27=169(LC 22), 26=218(LC 22), 25=219(LC 22), 24=226(LC 22), 23=108(LC 20), 20=546(LC 20), 22=494(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

**TOP CHORD** 1-2=0/58, 2-3=-146/58, 3-4=-74/71, 4-37=-86/82, 5-37=-65/87, 5-6=-66/97, 6-7=-66/109, 7-8=-67/125, 8-9=-73/146, 9-10=-82/168, 10-11=-83/171, 11-12=-83/167, 12-13=-82/160, 13-14=-78/143, 14-38=-64/122, 15-38=-71/117, 15-16=-69/101, 16-17=-69/81, 17-18=-99/68, 18-19=-45/40, 19-20=-143/18, 20-21=0/58

**BOT CHORD** 2-36=-44/68, 35-36=-44/68, 34-35=-44/68, 33-34=-44/68, 32-33=-44/68, 31-32=-44/68, 30-31=-44/68, 29-30=-44/68, 28-29=-44/68, 27-28=-44/68, 26-27=-44/68, 25-26=-44/68, 24-25=-44/68, 23-24=-44/68, 22-23=-44/68, 20-22=-44/68

**WEBS** 10-29=-193/34, 12-28=-143/11, 4-36=-295/109, 5-35=-127/41, 6-33=-192/48, 7-32=-191/48, 8-31=-190/70, 9-30=-202/95, 13-27=-152/66, 14-26=-189/83, 15-25=-195/55, 16-24=-190/48, 17-23=-96/28, 18-22=-409/132

**JOINT STRESS INDEX**

2 = 0.67, 2 = 0.16, 3 = 0.56, 4 = 0.51, 5 = 0.51, 6 = 0.51, 7 = 0.51, 8 = 0.51, 9 = 0.51, 10 = 0.51, 11 = 0.26, 12 = 0.51, 13 = 0.51, 14 = 0.51, 15 = 0.51, 16 = 0.51, 17 = 0.51, 18 = 0.51, 19 = 0.73, 20 = 0.70, 20 = 0.16, 22 = 0.51, 23 = 0.51, 24 = 0.51, 25 = 0.51, 26 = 0.51, 27 = 0.51, 28 = 0.51, 29 = 0.51, 30 = 0.51, 31 = 0.51, 32 = 0.51, 33 = 0.51, 34 = 0.26, 35 = 0.51 and 36 = 0.51

**NOTES-**

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-14 to 1-5-2, Exterior(2N) 1-5-2 to 13-0-0, Corner(3R) 13-0-0 to 16-6-0, Exterior(2N) 16-6-0 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

2) 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.

3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
111426	B1A	GABLE	1	1	Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:10 2021 Page 2  
ID:2Kp4eO9jKgXM\_RG959uMoizbgJW-LKDaxXA859Q67xZznxYssYc82ra9fyJFq3TKPTzW7ot

#### NOTES-

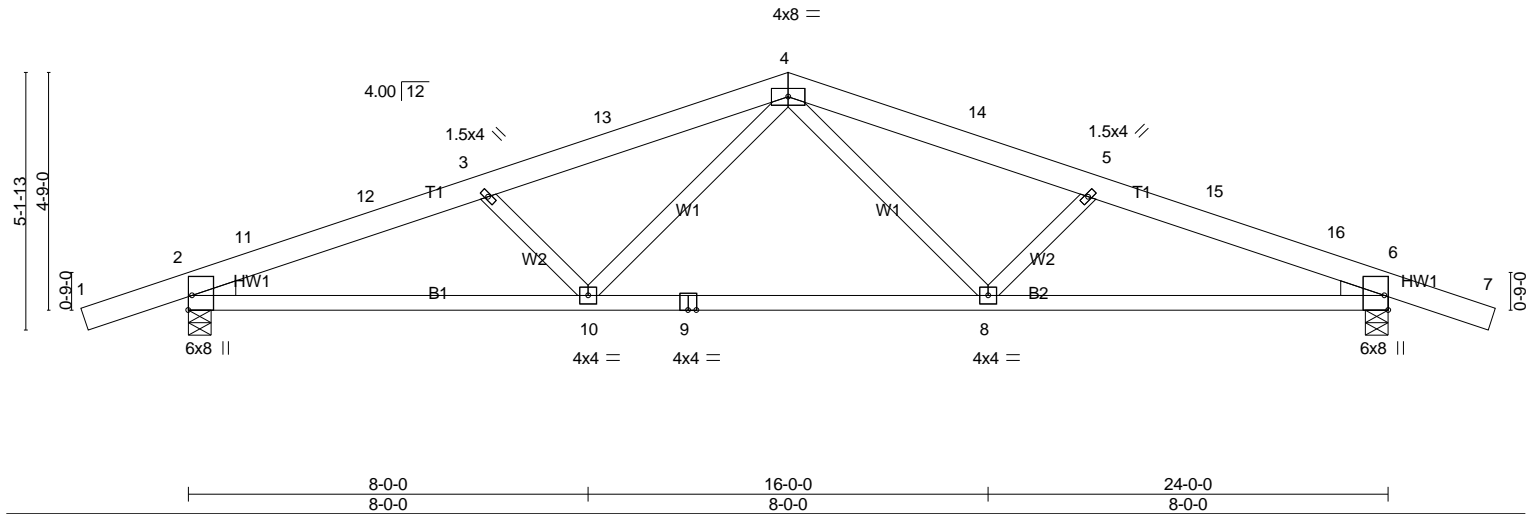
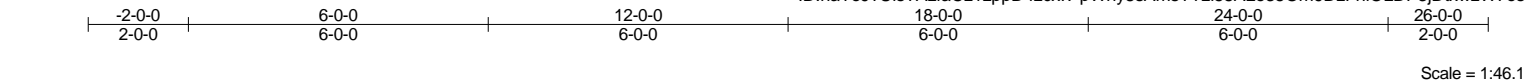
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2, 78 lb uplift at joint 36, 40 lb uplift at joint 35, 29 lb uplift at joint 33, 33 lb uplift at joint 32, 34 lb uplift at joint 31, 39 lb uplift at joint 30, 27 lb uplift at joint 27, 37 lb uplift at joint 26, 36 lb uplift at joint 25, 27 lb uplift at joint 24, 35 lb uplift at joint 23, 157 lb uplift at joint 20 and 83 lb uplift at joint 22.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	
111426	C1	COMMON	5	1	

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:11 2021 Page 1  
ID:haToJ?UlsTAzfaCz1zppD4zcxlv-pWny8sAmsTYzl58ALe35Om9DzFnOLDP3jDtxwzW7os



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.14 8-10 >999 240	MT20		185/144	
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.26 8-10 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.08 6 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							
BCDL	10.0										

Weight: 106 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD	2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud		
WEDGE			
Left: 2x4 HF or DF or SPF Stud , Right: 2x4 HF or DF or SPF Stud			

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

**REACTIONS.** (lb/size) 2=1643/0-5-8 (min. 0-2-11), 6=1643/0-5-8 (min. 0-2-11)  
Max Horz 2=88(LC 14)  
Max Uplift 2=290(LC 10), 6=290(LC 11)  
Max Grav 2=1719(LC 21), 6=1719(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/58, 2-11=-3111/450, 11-12=-3010/460, 3-12=-2896/473, 3-13=-2605/409, 4-13=-2458/422, 4-14=-2458/422,  
5-14=-2605/409, 5-15=-2896/473, 15-16=-3010/460, 6-16=-3111/450, 6-7=0/58  
BOT CHORD 2-10=-355/2783, 9-10=-200/1875, 8-9=-200/1875, 6-8=-366/2783  
WEBS 4-8=-74/858, 5-8=-656/208, 4-10=-73/858, 3-10=-656/207

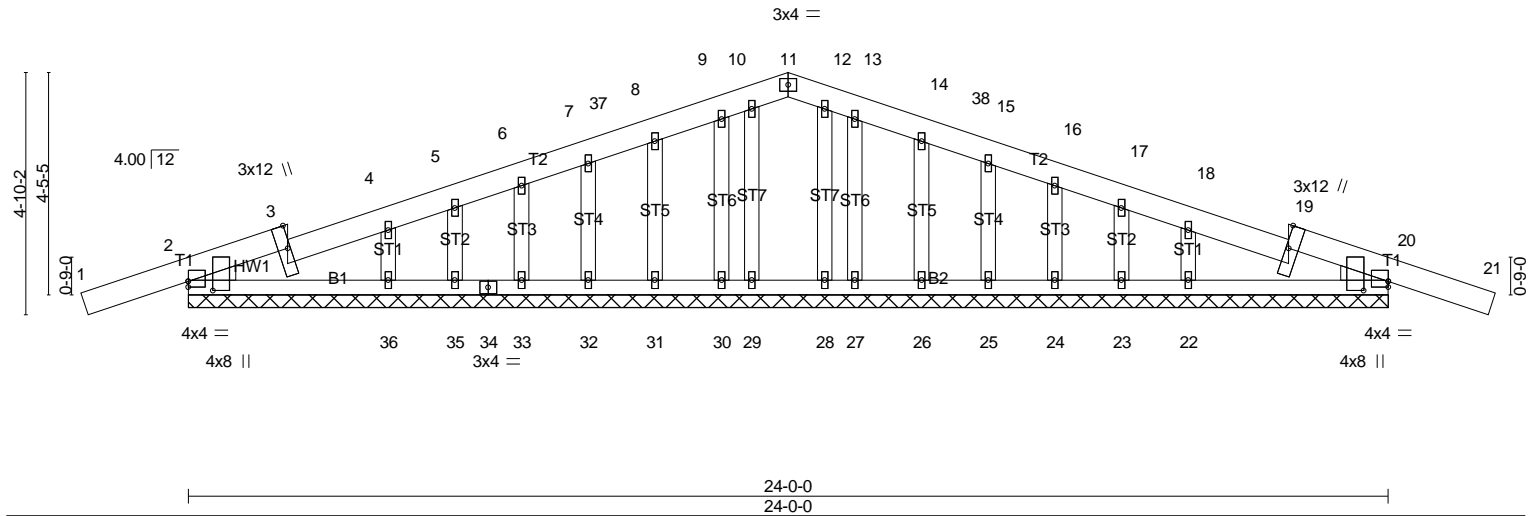
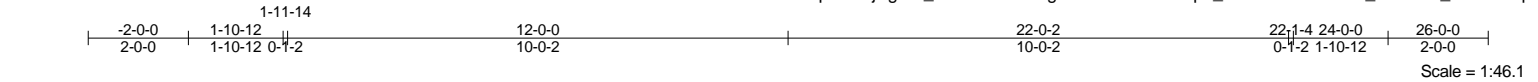
**JOINT STRESS INDEX**  
2 = 0.89, 2 = 0.33, 2 = 0.89, 3 = 0.51, 4 = 0.78, 5 = 0.51, 6 = 0.89, 6 = 0.33, 6 = 0.89, 8 = 0.57, 9 = 0.70 and 10 = 0.57

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2R) 12-0-0 to 15-6-0, Interior(1) 15-6-0 to 26-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
  - 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 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 290 lb uplift at joint 2 and 290 lb uplift at joint 6.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	
111426	C1A	GABLE	1	1	Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:13 2021 Page 1  
ID:2Kp4eO9jKgXM\_RG959uMoizbgJW-mvviZYC1O4ph\_OIYT35ZTBEfH3c\_sJNiW1i\_0ozW7oq



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	185/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) 0.01 21 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.01 21 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) -0.00 20 n/a n/a		
	Code IRC2018/TPI2014			Weight: 128 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud	Structural wood sheathing directly applied or 6-0-0 oc purlins.
WEDGE	Rigid ceiling directly applied or 6-0-0 oc bracing.
Left: 2x4 HF or DF or SPF Stud, Right: 2x4 HF or DF or SPF Stud	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

<b>REACTIONS.</b> (lb/size)	2=487/24-0-0 (min. 0-5-3), 29=115/24-0-0 (min. 0-5-3), 28=115/24-0-0 (min. 0-5-3), 36=355/24-0-0 (min. 0-5-3), 35=89/24-0-0 (min. 0-5-3), 33=165/24-0-0 (min. 0-5-3), 32=162/24-0-0 (min. 0-5-3), 31=159/24-0-0 (min. 0-5-3), 30=114/24-0-0 (min. 0-5-3), 27=114/24-0-0 (min. 0-5-3), 26=159/24-0-0 (min. 0-5-3), 25=162/24-0-0 (min. 0-5-3), 24=165/24-0-0 (min. 0-5-3), 20=487/24-0-0 (min. 0-5-3), 23=89/24-0-0 (min. 0-5-3), 22=355/24-0-0 (min. 0-5-3)
Max Horz 2=82(LC 14)	
Max Uplift 2=143(LC 10), 36=77(LC 20), 35=40(LC 10), 33=29(LC 14), 32=35(LC 10), 31=35(LC 10), 30=21(LC 14), 27=18(LC 15), 26=37(LC 15), 25=35(LC 11), 24=28(LC 15), 20=156(LC 11), 23=43(LC 11), 22=77(LC 20)	
Max Grav 2=553(LC 20), 29=138(LC 21), 28=138(LC 22), 36=382(LC 21), 35=148(LC 21), 33=222(LC 21), 32=219(LC 21), 31=219(LC 21), 30=156(LC 22), 27=156(LC 22), 26=219(LC 22), 25=219(LC 22), 24=222(LC 22), 20=553(LC 20), 23=148(LC 22), 22=382(LC 22)	

<b>FORCES.</b> (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/58, 2-3=-129/54, 3-4=-58/67, 4-5=-70/83, 5-6=-54/94, 6-7=-54/109, 7-37=-62/127, 8-37=-57/132, 8-9=-70/155, 9-10=-72/167, 10-11=-74/167, 11-12=-74/164, 12-13=-72/159, 13-14=-70/144, 14-38=-57/121, 15-38=-62/117, 15-16=-54/99, 16-17=-54/77, 17-18=-70/72, 18-19=-29/37, 19-20=-120/17, 20-21=0/58
BOT CHORD	2-36=-47/56, 35-36=-47/56, 34-35=-47/56, 33-34=-47/56, 32-33=-47/56, 31-32=-47/56, 30-31=-47/56, 29-30=-47/56, 28-29=-47/56, 27-28=-47/56, 26-27=-47/56, 25-26=-47/56, 24-25=-47/56, 23-24=-47/56, 22-23=-47/56, 20-22=-47/56
WEBS	10-29=-116/7, 12-28=-116/4, 4-36=-320/116, 5-35=-138/45, 6-33=-191/52, 7-32=-194/63, 8-31=-190/88, 9-30=-140/55, 13-27=-140/54, 14-26=-190/89, 15-25=-194/63, 16-24=-191/52, 17-23=-138/44, 18-22=-320/115

<b>JOINT STRESS INDEX</b>	
	2 = 0.67, 2 = 0.16, 3 = 0.55, 4 = 0.51, 5 = 0.51, 6 = 0.51, 7 = 0.51, 8 = 0.51, 9 = 0.51, 10 = 0.51, 11 = 0.26, 12 = 0.51, 13 = 0.51, 14 = 0.51, 15 = 0.51, 16 = 0.51, 17 = 0.51, 18 = 0.51, 19 = 0.55, 20 = 0.67, 20 = 0.16, 22 = 0.51, 23 = 0.51, 24 = 0.51, 25 = 0.51, 26 = 0.51, 27 = 0.51, 28 = 0.51, 29 = 0.51, 30 = 0.51, 31 = 0.51, 32 = 0.51, 33 = 0.51, 34 = 0.26, 35 = 0.51 and 36 = 0.51

<b>NOTES-</b>	
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-14 to 1-5-2, Exterior(2N) 1-5-2 to 12-0-0, Corner(3R) 12-0-0 to 15-6-0, Exterior(2N) 15-6-0 to 26-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33	
2) 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.	
3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10	
Continued on page 2	

Job	Truss	Truss Type	Qty	Ply	
111426	C1A	GABLE	1	1	Job Reference (optional)

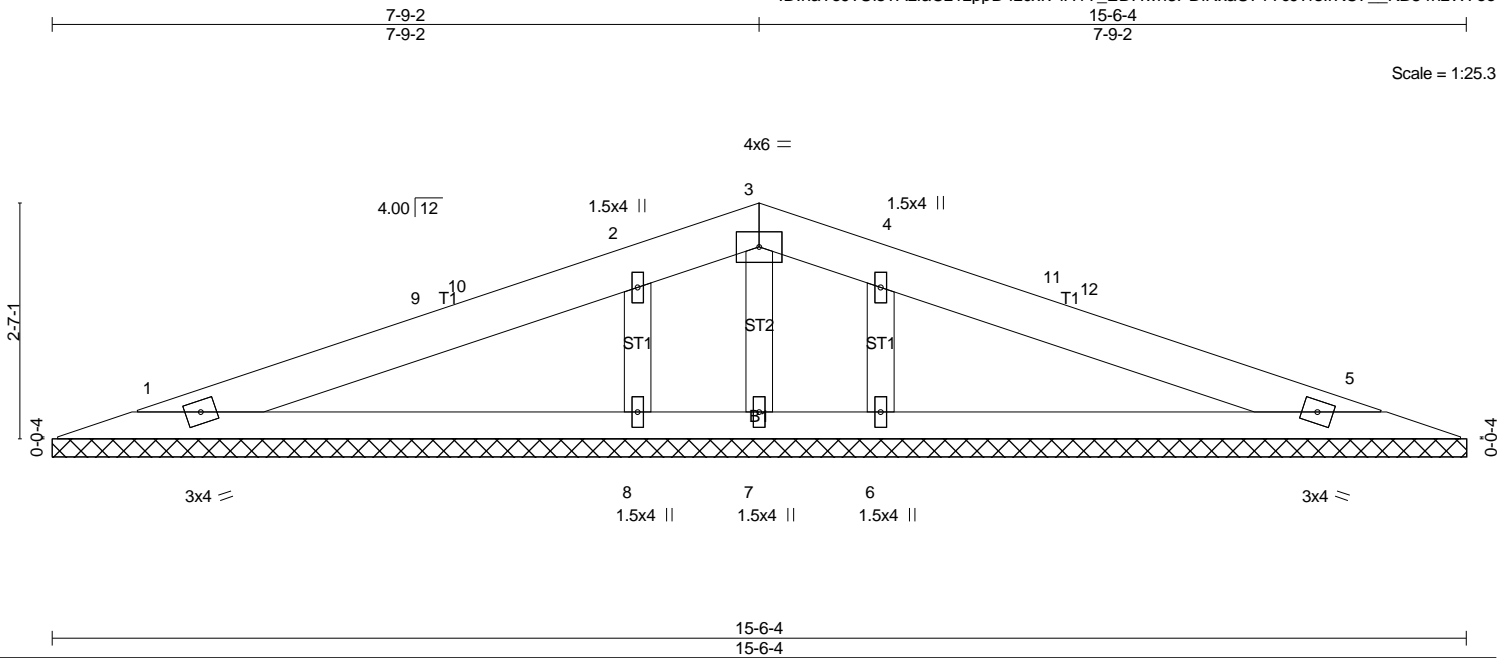
8.420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:14 2021 Page 2  
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**NOTES-**

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2, 77 lb uplift at joint 36, 40 lb uplift at joint 35, 29 lb uplift at joint 33, 35 lb uplift at joint 32, 35 lb uplift at joint 31, 21 lb uplift at joint 30, 18 lb uplift at joint 27, 37 lb uplift at joint 26, 35 lb uplift at joint 25, 28 lb uplift at joint 24, 156 lb uplift at joint 20, 43 lb uplift at joint 23 and 77 lb uplift at joint 22.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
111426	V01	GABLE	1	1	8,420 s Oct 9 2020 MiTek Industries, Inc. Mon Mar 29 06:21:15 2021 Page 1 ID:haToJ?UlsTAzfaCz1zppD4zcxlv-iH1T_EDHwh3PDiRxaU71Ycj?rsIrkC7_KB54hzW7oo



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.22 BC 0.12 WB 0.18 Matrix-SH	Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- - 5	n/a n/a n/a	999 999 n/a	MT20	185/144
TCDL 10.0	Rep Stress Incr YES							
BCLL 0.0 *	Code IRC2018/TPI2014							
BCDL 10.0							Weight: 50 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E  
BOT CHORD 2x4 SPF 1650F 1.5E  
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=248/15-6-4 (min. 0-2-8), 5=248/15-6-4 (min. 0-2-8), 7=-367/15-6-4 (min. 0-2-8), 8=727/15-6-4 (min. 0-2-8), 6=727/15-6-4 (min. 0-2-8)  
Max Horz 1=41(LC 14)  
Max Uplift 1=-36(LC 10), 5=-41(LC 11), 7=-367(LC 1), 8=-131(LC 14), 6=-130(LC 11)  
Max Grav 1=339(LC 20), 5=339(LC 21), 7=68(LC 11), 8=973(LC 20), 6=973(LC 21)

#### FORCES.

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-9=-43/37, 9-10=-18/61, 2-10=-16/158, 2-3=-97/108, 3-4=-97/109, 4-11=0/158, 11-12=0/60, 5-12=-56/22  
BOT CHORD 1-8=-20/41, 7-8=-20/41, 6-7=-20/41, 5-6=-20/41  
WEBS 3-7=-158/250, 2-8=-806/268, 4-6=-806/268

#### JOINT STRESS INDEX

1 = 0.48, 2 = 0.49, 3 = 0.13, 4 = 0.49, 5 = 0.48, 6 = 0.47, 7 = 0.20 and 8 = 0.47

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-1-15 to 4-7-15, Interior(1) 4-7-15 to 7-9-2, Exterior(2R) 7-9-2 to 11-3-2, Interior(1) 11-3-2 to 14-4-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 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 36 lb uplift at joint 1, 41 lb uplift at joint 5, 367 lb uplift at joint 7, 131 lb uplift at joint 8 and 130 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard