Job Truss Truss Type Qty Ply A1 19050112 4 1 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:54

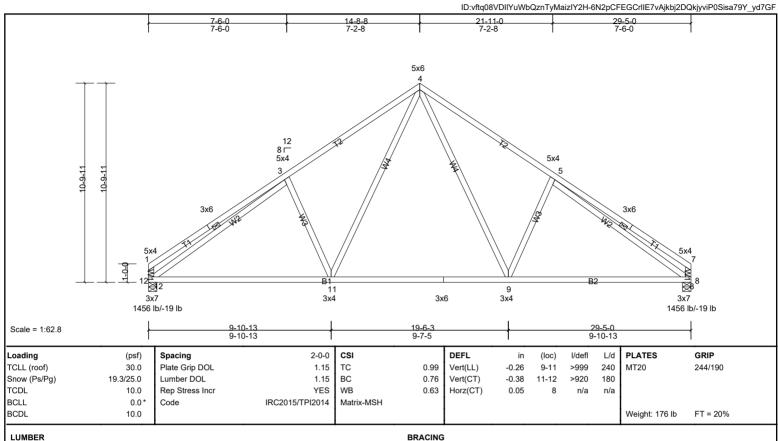
Structural wood sheathing directly applied, except end verticals.

3-12, 5-8

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

1 Row at midpt

Page: 1



**BOT CHORD** 

WEBS

TOP CHORD TOP CHORD 2x4 SP No 2

**BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

8=1143/0-5-8, (min. 0-2-5), 12=1143/0-5-8, (min. 0-2-5)

Max Horiz 12=-210 (LC 8)

(lb/size)

8=-19 (LC 13), 12=-19 (LC 12) Max Uplift Max Grav 8=1456 (LC 2), 12=1456 (LC 2)

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

1-2=-606/93, 2-3=-491/120, 3-4=-1789/228, 4-5=-1789/228, 5-6=-491/120, 6-7=-606/93, 1-12=-505/103, 7-8=-505/103 TOP CHORD

BOT CHORD  $12-13=-84/1626,\ 13-14=-84/1626,\ 11-14=-84/1626,\ 11-15=0/1102,\ 10-15=0/1102,\ 10-16=0/1102,\ 9-16=0/1102,\ 9-17=-20/1493,\ 17-18=-20/1493,\ 8-18=-20/1493,\ 17-18=-20/1493,$ WFBS

4-9=-94/830, 5-9=-483/228, 4-11=-94/830, 3-11=-483/228, 3-12=-1450/27, 5-8=-1450/27

### NOTES

REACTIONS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second qust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pq=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5)
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 12 and 19 lb uplift
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Type Qty Ply Truss A2 2 1 19050112 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:55

ID:vftq08VDIIYuWbQznTvMaizIY2H-aZbCPbFuz8t9sHUMHS6vbQzwZMlh8Qps4Esi4Qvd7GE

29-5-0 6-6-0 22-11-0 6-6-0 12-8-8 16-8-8 6-6-0 6-2-8 4-0-0 7x8 7x6 9-6-11 0-11-13 0-1-13 3 12 8 F 3x5 3x5 9-5-11 9-3-14 5x4 5x4 W2 R1 X 12 11 9 8 5x4 3x3 3x4 3x6 3x8 5x4 3x3 1599 lb/-11 lb 1599 lb/-11 lb 12-10-4 16-6-12 6-6-0 22-11-0 29-5-0 Scale = 1:58 6-6-0 3-8-8 6-4-4 6-6-0 Plate Offsets (X, Y): [1:0-2-8,0-3-4], [3:0-2-12,Edge], [4:0-3-5,Edge], [6:0-2-8,0-3-4] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP (psf) TC 240 244/190 TCLL (roof) 30.0 Plate Grip DOL 1.15 0.92 Vert(LL) -0.09 11-12 >999 MT20 19.3/25.0 вс

0.52

0.75

TOP CHORD

**BOT CHORD** 

WFBS

Vert(CT)

Horz(CT)

-0.16

0.05

1 Row at midpt

11-12

>999

n/a

verticals, and 2-0-0 oc purlins (4-11-8 max.): 3-4.

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

180

n/a

Weight: 193 lb

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end

FT = 20%

LUMBER BRACING

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

Lumber DOI

Code

10.0

10.0

0.0\*

Rep Stress Incr

(lb/size) 7=1143/0-5-8, (min. 0-1-14), 13=1143/0-5-8, (min. 0-1-14) 13=-183 (LC 10) Max Horiz

Max Uplift 7=-11 (LC 15), 13=-11 (LC 14) 7=1599 (LC 36), 13=1599 (LC 36) Max Grav

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

1-14-2174/100, 2-14-2050/131, 2-15-1683/148, 15-16-1476/182, 3-16-1325/184, 3-4-1244/189, 4-17-1326/184, 17-18-1478/182, 5-18-1684/148, 5-19-2049/131, 3-16-1325/184, 3-4-1244/189, 4-17-1326/184, 17-18-1478/182, 5-18-1684/148, 5-19-2049/131, 3-16-1684/148, 3-1TOP CHORD 6-19=-2173/100, 1-13=-1535/104, 6-7=-1535/104

1.15

YES

IRC2015/TPI2014

WB

Matrix-MSH

BOT CHORD 12-13=-165/378, 11-12=-49/1705, 10-11=0/1243, 9-10=0/1243, 8-9=-17/1705, 7-8=-39/275 WEBS 2-11=-599/134, 3-11=-26/467, 4-9=-11/468, 5-9=-597/134, 1-12=0/1442, 6-8=0/1440

#### NOTES

Snow (Ps/Pg)

REACTIONS

TCDI

BCLL

BCDL

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design. 5)
- 6) Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 11 lb uplift at joint 13 and 11 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S)

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 1) Uniform Loads (lb/ft)

Vert: 1-3=-59, 3-4=-59, 4-6=-58, 7-13=-20

Job Truss Type Qty Ply Truss A3 2 1 19050112 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:55 ID:vftq08VDIIYuWbQznTvMaizIY2H-aZbCPbFuz8t9sHUMHS6vbQzwGMFi8Txs4Esi4Qvd7GE 5-6-0 10-8-8 18-8-8 5-6-0 8-0-0

7x6 5x6 12 8 <u>—</u> 3x5 3x5 5x4 5x4  $\geq$ 12 9 5x4 3x4 3x8 5x4 3x3 3x6 3x3 1530 lb/-1 lb 1530 lb/-1 lb Scale = 1:53.3 5-6-0 5-0-12 8-3-8 5-0-12 5-6-0 Plate Offsets (X, Y): [1:0-1-4,0-2-0], [6:0-1-4,0-2-0] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP (psf) TC 240 244/190 TCLL (roof) 30.0 Plate Grip DOL 1.15 0.94 Vert(LL) -0.149-11 >999 MT20 Snow (Ps/Pg) 19.3/25.0 Lumber DOI 1.15 вс 0.71 Vert(CT) -0.28 9-11 >999 180

0.55

**BOT CHORD** 

WFBS

Horz(CT)

0.05

1 Row at midpt

7

n/a

verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4.

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

n/a

Weight: 187 lb

Structural wood sheathing directly applied or 3-4-0 oc purlins, except end

FT = 20%

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2 \*Except\* T2:2x6 SP No.2
 TOP CHORD

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

Rep Stress Incr

Code

(lb/size) 7=1143/0-5-8, (min. 0-1-13), 13=1143/0-5-8, (min. 0-1-13) Max Horiz 13=157 (LC 11)

Max Uplift 7=-1 (LC 15), 13=-1 (LC 14) Max Grav 7=1530 (LC 36), 13=1530 (LC 36)

FORCES (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown TOP CHORD 1-14=-1994/116 2-14=-1716/136 2-3=-1674/178 3-15=-1297/180 15-16=-

TOP CHORD 1-14=-1994/116, 2-14=-1716/136, 2-3=-1674/178, 3-15=-1297/180, 15-16=-1297/180, 4-16=-1297/180, 4-5=-1674/178, 5-17=-1715/136, 6-17=-1994/116, 1-13=-1470/106, 6-7=-1470/106

YES

IRC2015/TPI2014

WB

Matrix-MSH

6-7=-1470/106

10.0

10.0

0.0\*

BOT CHORD 12-13=-140/329, 11-12=-32/1543, 11-18=0/1296, 10-18=0/1296, 9-10=0/1296, 8-9=-32/1543 WEBS 2-11=-428/123, 3-11=0/518, 4-9=0/447, 5-9=-427/123, 1-12=-19/1321, 6-8=-19/1320

#### **NOTES**

REACTIONS

TCDI

BCLL

BCDL

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

Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 1 lb uplift at joint 13 and 1 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S) Standard

 Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-59, 3-4=-59, 4-6=-59, 7-13=-20

Job Qty Ply Truss Truss Type A4 2 1 19050112 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:56

Page: 1 ID:vftg08VDIIYuWbQznTyMaizIY2H-2l9acxGWkS?0TR3Zr9eB7eV5LmbttpD?JucGctyd7GD

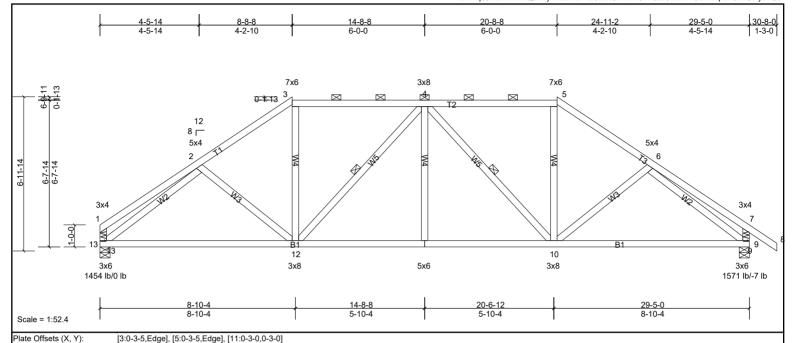
Structural wood sheathing directly applied or 4-1-6 oc purlins, except end

4-12 4-10

verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-5.

1 Row at midpt

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



Loading Spacing 2-0-0 CSI (psf)

DFFI I/defl L/d PI ATES GRIP TC 244/190 TCLL (roof) 30.0 Plate Grip DOL 1.15 0.92 Vert(LL) -0.15 9-10 >999 240 MT20 Snow (Ps/Pa) 19.3/25.0 Lumber DOI 1.15 вс 0.71 Vert(CT) -0.31 9-10 >999 180 TCDI Rep Stress Incr YES 10.0 WB 1.00 Horz(CT) 0.07 9 n/a n/a IRC2015/TPI2014 BCLL 0.0\* Code Matrix-MSH BCDL 10.0 Weight: 181 lb FT = 20%

**BOT CHORD** 

WFBS

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

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

> (lb/size) 9=1227/0-5-8, (min. 0-1-14), 13=1141/0-5-8, (min. 0-1-11)

13=-143 (LC 10) Max Horiz Max Uplift 9=-7 (LC 15)

Max Grav 9=1571 (LC 2), 13=1454 (LC 2)

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

TOP CHORD 1-14=-395/25, 2-14=-280/41, 2-3=-1765/166, 3-15=-1412/164, 4-15=-1414/164, 4-16=-1409/163, 5-16=-1407/163, 5-6=-1757/164, 6-17=-285/52, 7-17=-387/26, 1-13=-360/44, 1-13

BOT CHORD 12-13=-63/1468, 12-18=-21/1729, 11-18=-21/1729, 11-19=-21/1729, 10-19=-21/1729, 9-10=-19/1447 WEBS 3-12=-3/544, 4-12=-570/107, 4-11=0/252, 4-10=-573/106, 5-10=-1/535, 2-13=-1628/130, 6-9=-1604/115

#### NOTES

REACTIONS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies 3) (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design. 5)
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 9 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-59, 3-5=-59, 5-7=-59, 7-8=-59, 9-13=-20

 Job
 Truss
 Truss Type
 Qty
 Ply

 19050112
 A5L
 Truss
 1
 2
 Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:57

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Structural wood sheathing directly applied or 4-11-7 oc purlins, except

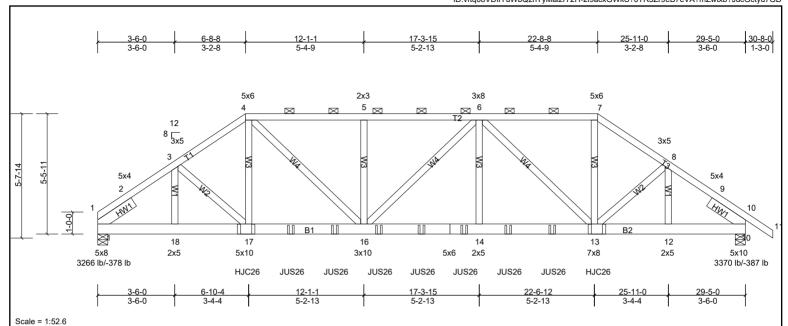


Plate Offsets (X, Y): [4:0-4-12,Edge], [10:0-6-13,0-0-8], [13:0-4-0,0-4-12]

ш														
	Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
	TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.14	14-16	>999	240	MT20	244/190	
	Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.23	14-16	>999	180			
	TCDL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.06	10	n/a	n/a			
	BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH									
	BCDL	10.0										Weight: 413 lb	FT = 20%	

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD

 BOT CHORD
 2x6 SP No.2
 2-0-0 oc purlins (5-0-8 max.): 4-7.

 WEBS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing

SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

**REACTIONS** (lb/size) 1=2567/0-5-8, (min. 0-1-15), 10=2643/0-5-8, (min. 0-2-0)

Max Horiz 1=-98 (LC 56)

Max Uplift 1=-378 (LC 9), 10=-387 (LC 13) Max Grav 1=3266 (LC 2), 10=3370 (LC 2)

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

TOP CHORD 1-2=-2395/278, 2-3=-4335/558, 3-4=-4767/684, 4-27=-5339/770, 5-27=-5339/770, 5-6=-5339/770, 6-28=-3995/590, 7-28=-3995/590, 7-8=-4755/683, 8-9=-4313/559, 9-10=-1940/242 BOT CHORD 1-18=-498/3461, 17-18=-498/3461, 17-29=-589/3965, 29-30=-589/3965, 16-30=-589/3965, 16-31=-750/5340, 31-32=-750/5340, 15-32=-750/5340, 15-33=-750/5340, 14-33=-750/5340, 15-32

14-34=-750/5340, 34-35=-750/5340, 13-35=-750/5340, 12-13=-407/3439, 10-12=-407/3439

WEBS 3-18=-680/137, 3-17=-234/769, 4-17=-189/956, 4-16=-321/1965, 5-16=-582/108, 6-14=-99/872, 6-13=-1947/319, 7-13=-315/2245, 8-13=-214/773, 8-12=-689/135

#### 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: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- grip DOL=1.60

  5) \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- ) Unbalanced snow loads have been considered for this design.
- 8) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 1) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 378 lb uplift at joint 1 and 387 lb uplift at joint 10.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
19050112	A5L	Truss	1	2	Job Reference (optional)

ID:vftq08VDIIYuWbQznTyMaizIY2H-2l9acxGWkS?0TR3Zr9eB7eVA?mZwtxb?JucGctyd7GD

Page: 2

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

- 15) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 15-11-4 oc max. starting at 6-8-14 from the left end to 22-8-2 to connect truss(es) J1 (1 ply 2x4 SP), J6L (1 ply 2x4 SP), J1 (1 ply 2x4 SP), J6L (1 ply 2x4 SP) to back face of bottom chord.
- 16) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-9-4 from the left end to 20-7-12 to connect truss(es) J1 (1 ply 2x4 SP) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-59, 4-7=-59, 7-11=-59, 19-23=-20

Concentrated Loads (lb)

Vert: 17=-633, 13=-633, 29=-223, 30=-223, 31=-223, 32=-223, 33=-223, 34=-223, 35=-223

 Job
 Truss
 Truss Type
 Qty
 Ply

 19050112
 A6L
 Truss
 1
 2
 Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:58

13

2x5

JUS26

JUS26

22-6-12

JUS26

5x6

JUS26

17-3-15

Page: 1

5x4

HWI

5x8

3691 lb/-444 l

JUS26

29-5-0

3-6-0

B2 [[

JUS26

25-11-0

Structural wood sheathing directly applied or 4-10-7 oc purlins, except

11

2x5

JUS26

12

7x8

JUS26

ID:vftq08VDIIYuWbQznTyMaizIY2H-WxjyqHH8Vm7t5aelOt9Qgr2L2AvJcO?9YYLq8Jyd7GC 17-3-15 6-8-8 22-8-8 25-11-0 29-5-0 3-6-0 12-1-3-6-0 5x6 2x3 3x8 5x6 5 🖂 1 7  $\square$ 12 8 \_\_\_\_ 3x5 3x5 3

Scale = 1:51.6

5-5-11

Plate Offsets (X, Y): [4:0-4-12,Edge], [12:0-4-0,0-4-12] 2-0-0 CSI DEFL **PLATES** GRIP Loading (psf) Spacing (loc) I/defl L/d TCLL (roof) 30.0 Plate Grip DOL TC 0.60 Vert(LL) -0.1413-15 >999 240 MT20 244/190 1.15 Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 BC 0.83 Vert(CT) -0.2313-15 >999 180 TCDL 10.0 Rep Stress Inci NO WB 0.45 Horz(CT) 0.06 10 n/a n/a BCLL 0.0 Code IRC2015/TPI2014 Matrix-MSH BCDL 10.0 Weight: 409 lb FT = 20%

15

3x10

JUS26

JUS26

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD

 BOT CHORD
 2x6 SP No.2
 2-0-0 oc purlins (5-0-10 max.): 4-7.

 WEBS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing

∏ B1

12-1-1

5-2-13

JUS26

16

5x10

HJC26

6-10-4

SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

5x4

HW1

3-6-0

5x8

3264 lb/-368 lb

17

2x5

**REACTIONS** (lb/size) 1=2558/0-5-8, (min. 0-1-15), 10=2875/0-5-8, (min. 0-2-3)

Max Horiz 1=87 (LC 9)

Max Uplift 1=-368 (LC 9), 10=-444 (LC 8) Max Grav 1=3264 (LC 2), 10=3691 (LC 2)

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

TOP CHORD 1-2=-2394/269, 2-3=-4331/542, 3-4=-4765/667, 4-26=-5314/743, 5-26=-5314/743, 5-6=-5314/743, 6-27=-3874/535, 7-27=-3874/535, 7-8=-4613/618, 8-9=-4560/575, 9-10=-2226/273 BOT CHORD 1-17=-492/3458, 16-17=-492/3458, 16-28=-581/3964, 28-29=-581/3964, 15-29=-581/3964, 15-30=-714/5259, 30-31=-714/5259, 14-31=-714/5259, 14-32=-714/5259, 13-32

13-33=-714/5259, 33-34=-714/5259, 12-34=-714/5259, 12-35=-433/3649, 11-35=-433/3649, 11-36=-433/3649, 10-36=-433/3649

WEBS 3-17=-683/135, 3-16=-232/770, 4-16=-192/978, 4-15=-304/1931, 5-15=-582/108, 6-13=-96/855, 6-12=-2004/336, 7-12=-279/2166, 8-12=-178/351

### 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: 2x6 - 2 rows staggered at 0-9-0 oc.

Web 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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI =1.60
- grip DOL=1.60

  \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- 7) Unbalanced snow loads have been considered for this design.
- 8) Provide adequate drainage to prevent water ponding.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 1 and 444 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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	
19050112	A6L	Truss	1	2	Job Reference (optional)

Page: 2 ID:vftq08VDIIYuWbQznTyMaizIY2H-WxjyqHH8Vm7t5aelOt9Qgr2L2AvJcO?9YYLq8Jyd7GC

- 14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 6-8-14 from the left end to connect truss (es) J2 (1 ply 2x4 SP), J6L (1 ply 2x4 SP) to front face of bottom chord.
- Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-9-4 from the left end to 28-7-12 to connect truss(es) J2 (1 ply 2x4 SP), J1 (1 ply 2x4 SP) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-59, 4-7=-59, 7-10=-59, 18-22=-20

Concentrated Loads (lb)

Vert: 16=-642, 12=-223, 24=-225, 28=-232, 29=-232, 30=-232, 31=-223, 32=-223, 33=-223, 34=-223, 35=-223, 36=-223

Job Truss Truss Type Qty Ply Α7 19050112 5 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:58

ID:vftq08VDIIYuWbQznTyMaizIY2H- 8HK1cHmG3FkjkCxyagfC3bSkZG5LvrImC5Nhlyd7GB .24-9-0 1-3-0 17-5-12 23-6-0 6-0-4 11-9-0 5-8-12 5x6 5 12 8  $\square$ 2x3 5x4 11 3x12 3x4 5x6 3x12 1275 lb/-47 lb 1275 lb/-47 lb 15-6-13 23-6-0 Scale = 1:56.4 7-11-3 7-7-11 7-11-3 Plate Offsets (X, Y): [2:0-7-13,Edge], [8:0-7-13,Edge], [10:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.35	10-11	>808	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 132 lb	FT = 20%

**BOT CHORD** 

Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

LUMBER BRACING 2x4 SP No.2 TOP CHORD

TOP CHORD BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

REACTIONS 2=996/0-3-8, (min. 0-1-8), 8=996/0-3-8, (min. 0-1-8) (lb/size)

> Max Horiz 2=-175 (LC 10)

Max Uplift 2=-47 (LC 12), 8=-47 (LC 13) Max Grav 2=1275 (LC 2), 8=1275 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-361/188, 3-4=-1488/133, 4-5=-1341/201, 5-6=-1341/201, 6-7=-1488/133 BOT CHORD 2-11=-158/1182, 11-20=0/825, 20-21=0/825, 10-21=0/825, 8-10=0/1139 WEBS

5-10=-90/559, 6-10=-369/183, 5-11=-90/559, 4-11=-369/183

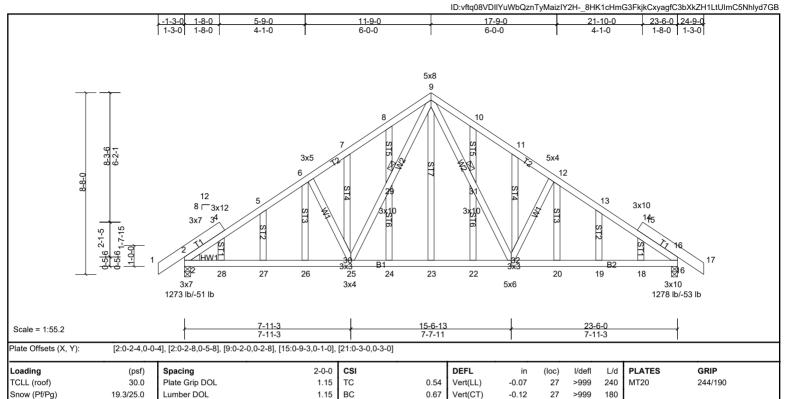
## NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.2 psf on overhangs 5) non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 47 lb uplift
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Job Truss Type Qty Ply Truss A8G 1 1 19050112 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:58



0.37

Horz(CT)

0.02

16

1 Brace at Jt(s): 29, 31

n/a

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

n/a

Structural wood sheathing directly applied or 4-1-15 oc purlins.

Weight: 199 lb

FT = 20%

LUMBER BRACING TOP CHORD

2x6 SP No.2 \*Except\* T2:2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD JOINTS

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 WEDGE Left: 2x4 SP No.2

REACTIONS (lb/size) 2=994/0-3-8, (min. 0-1-8), 16=998/0-3-8, (min. 0-1-8)

Rep Stress Incr

Code

Max Horiz 2=-165 (LC 10)

Max Uplift 2=-51 (LC 12), 16=-53 (LC 13) 2=1273 (LC 2), 16=1278 (LC 2) Max Grav

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

2-3=-1578/73, 3-4=-1303/64, 4-5=-1608/100, 5-6=-1606/142, 6-7=-1435/156, 7-8=-1420/197, 8-9=-1377/239, 9-10=-1329/231, 10-11=-1413/198, 11-12=-1428/156, 12-13=-1588/141, TOP CHORD

13-14=-1617/99, 14-15=-1286/63, 15-16=-1615/74

**BOT CHORD** 2-28 = -64/1379, 27-28 = -59/1338, 26-27 = -59/1338, 25-26 = -59/1338, 24-25 = 0/889, 23-24 = 0/889, 22-23 = 0/892, 21-22 = 0/892, 20-21 = -1/1321, 19-20 = -1/1321, 18-19 = -1/1321, 19-20 = -16-18=-1/1321

10.0

10.0

0.0\*

WEBS 9-31=-127/562, 21-31=-131/581, 21-32=-513/151, 12-32=-387/98, 25-29=-123/582, 9-29=-135/631, 6-30=-413/86, 25-30=-537/143

YES

IRC2015/TPI2014

WB

Matrix-MSH

### **NOTES**

TCDI

BCLL

BCDL

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) This truss has been checked for uniform snow load only, except as noted.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- All plates are 2x3 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 10) 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 16 and 51 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Truss Type Qty Ply A9 19050112 5 1 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:59

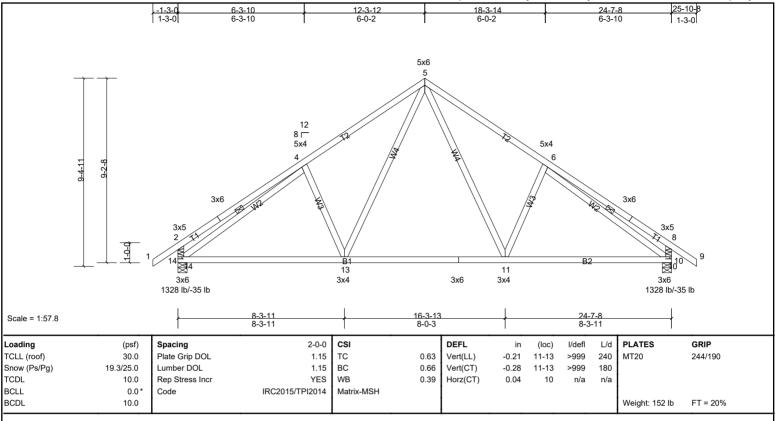
Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-TKriFyIO0NNbKun8WHBulG7h5zdQ4JRR?sqwDCyd7GA

Structural wood sheathing directly applied or 3-10-3 oc purlins, except end

4-14, 6-10

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

1 Row at midpt



**BOT CHORD** 

WEBS

LUMBER BRACING TOP CHORD

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

> 10=1037/0-5-8, (min. 0-1-9), 14=1037/0-5-8, (min. 0-1-9) (lb/size)

Max Horiz 14=197 (LC 11)

10=-35 (LC 13), 14=-35 (LC 12) Max Uplift Max Grav 10=1328 (LC 2), 14=1328 (LC 2)

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

TOP CHORD 2-3=-488/96, 3-4=-339/123, 4-5=-1406/186, 5-6=-1406/186, 6-7=-339/123, 7-8=-488/96, 2-14=-545/147, 8-10=-545/147

BOT CHORD 13-14=-55/1234, 13-15=0/854, 12-15=0/854, 12-16=0/854, 11-16=0/854, 10-11=0/1184 5-11=-76/596, 6-11=-371/188, 5-13=-76/596, 4-13=-371/188, 4-14=-1133/0, 6-10=-1133/0 WFBS

#### NOTES

REACTIONS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second qust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pq=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 5) non-concurrent with other live loads
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 14 and 35 lb uplift 8)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and 9) referenced standard ANSI/TPI 1.

LOAD CASE(S)

Job Truss Type Qty Ply Truss A10 1 1 19050112 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:34:59

ID:vftq08VDIIYuWbQznTyMaizIY2H-TKriFyIO0NNbKun8WHBulG7evzZM4KuR?sqwDCyd7GA -1-3-0 1-3-0 10-3-12 5×6 5x7 12 8 \_ 2x3 5x4 3 8-0-11 7-8-11 3x5 R1 10 3x7 3x8 5x6 5x10 1503 lb/-27 lb 1385 lb/-8 lb Scale = 1:53 10-5-8 3-10-4 10-3-12 Plate Offsets (X, Y): [4:0-1-14,0-1-14], [5:0-1-12,0-3-4], [9:0-3-0,0-3-0] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP (psf) TC 244/190 TCLL (roof) 30.0 Plate Grip DOL 1.15 0.77 Vert(LL) -0.3010-11 >986 240 MT20 Snow (Ps/Pg) 19.3/25.0 Lumber DOI 1.15 вс 0.92 Vert(CT) -0.60 10-11 >487 180 TCDI Rep Stress Incr YES 10.0 WB 0.36 Horz(CT) 0.08 8 n/a n/a IRC2015/TPI2014 BCLL 0.0\* Code Matrix-MSH BCDL 10.0 Weight: 149 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-6 max.): 4-5. BOT CHORD 2x4 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 2x4 SP No.3 WFBS 1 Row at midpt 5-10. 3-11 Right 2x6 SP No.2 -- 1-11-0 SLIDER REACTIONS 8=958/ Mechanical, (min. 0-1-8), 11=1045/0-5-8, (min. 0-1-12) (lb/size) Max Horiz 11=154 (LC 11)

Max Uplift 8=-8 (LC 15), 11=-27 (LC 14) Max Grav 8=1385 (LC 37), 11=1503 (LC 37)

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

TOP CHORD 2-3=-545/47, 3-17=-1404/106, 4-17=-1384/140, 4-18=-1044/146, 5-18=-1044/146, 5-6=-1395/142, 6-7=-1748/144, 7-8=-683/0, 2-11=-595/100 BOT CHORD

10-11=-73/1319, 9-10=0/1039, 8-9=-48/1349

WEBS 3-10=-359/155, 4-10=0/380, 5-9=-17/343, 6-9=-398/141, 3-11=-1274/100

## NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 6) non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 8 and 27 lb uplift at
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-59, 2-4=-59, 4-5=-59, 5-8=-59, 11-12=-20

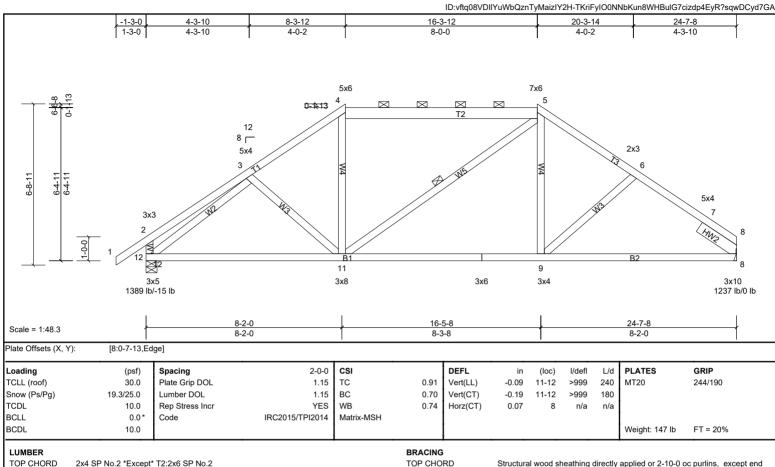
Job Truss Type Qty Ply Truss A11 1 19050112 Truss 1 Job Reference (optional)

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verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.

1 Row at midpt

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



**BOT CHORD** 

WFRS

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

Right 2x6 SP No.2 -- 1-11-0

REACTIONS

8=958/ Mechanical, (min. 0-1-8), 12=1045/0-5-8, (min. 0-1-10) (lb/size)

Max Horiz 12=128 (LC 11) Max Uplift 12=-15 (LC 14)

Max Grav 8=1237 (LC 37), 12=1389 (LC 37)

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

TOP CHORD 2-17=-331/36, 3-4=-1419/137, 4-18=-1117/143, 18-19=-1117/143, 5-19=-1117/143, 5-6=-1393/138, 6-20=-1505/134, 7-20=-1570/115, 7-8=-255/104, 2-12=-484/103BOT CHORD

11-12=-54/1175, 10-11=0/1126, 9-10=0/1126, 8-9=-52/1206

WEBS 4-11=0/326, 5-9=0/314, 3-12=-1313/75

## NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8
- \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and 12) referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 1) Uniform Loads (lb/ft)
  - Vert: 1-2=-59, 2-4=-59, 4-5=-59, 5-8=-59, 12-13=-20

Job Truss Truss Type Qty Ply A<sub>12</sub>L 2 19050112 1 Truss Job Reference (optional)

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244/190

FT = 20%

5x6 2x3 5x6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Scale = 1:46.6	3-6		6-10-4 3-4-4	12-3-12 5-5-8		-9-4 5-8	21-1-8 3-4-4	24-7-8 3-6-0
12 8 3x5 12 8 3x5 14 15 16 15 14 12 11 10		2795 lb/-320 lb		HJC26	JUS26 JUS26	JUS26 JUS26			
12 8 3x5 3x5 4 4 5x4 9 9 10	•								x5 5x8
5 N N N N N N N N N N N N N N N N N N N	1 4	1	16	<u></u>	B1				
		3/	8 3x5	5		<b>\$</b> \	7	To the second se	5x4 9

0.48

0.68

0.26

Vert(LL)

Vert(CT)

Horz(CT)

-0.09

-0.14

0.04

14-15

14-15

10

>999

>999

n/a n/a

240

180

MT20

Weight: 343 lb

LUMBER BRACING

Structural wood sheathing directly applied or 5-8-5 oc purlins, except TOP CHORD 2x4 SP No.2 TOP CHORD

Matrix-MSH

2-0-0 oc purlins (5-11-12 max.): 5-7 BOT CHORD 2x6 SP No 2 Rigid ceiling directly applied or 10-0-0 oc bracing

1.15 TC

1.15 BC

NO WB

**BOT CHORD** WEBS 2x4 SP No.3 SLIDER Left 2x6 SP No.2 -- 1-11-0. Right 2x6 SP No.2 -- 1-11-0

IRC2015/TPI2014

REACTIONS

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

30.0

10.0

10.0

0.0\*

19.3/25.0

2=2192/0-5-8, (min. 0-1-10), 10=2459/ Mechanical, (min. 0-1-8) (lb/size)

> Max Horiz 2=98 (LC 9) Max Uplift 2=-320 (LC 12), 10=-388 (LC 13)

Max Grav 2=2795 (LC 2), 10=3152 (LC 2)

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

TOP CHORD 2-25=-1943/206, 3-25=-1556/180, 3-4=-3514/433, 4-5=-3849/527, 5-26=-3995/542, 6-26=-3995/542, 6-27=-3995/542, 7-27=-3995/542, 7-8=-3762/494, 8-9=-3812/481, 9-10=-1899/230

> 2-16=-394/2799. 15-16=-394/2799. 15-28=-465/3201. 28-29=-465/3201. 14-29=-465/3201. 14-30=-374/3126. 13-30=-374/3126. 12-13=-374/3126. 12-31=-345/3050. 11-31=-345/3050. 11-32=-345/3050, 10-32=-345/3050

WFBS 4-16=-571/116 4-15=-222/618 5-15=-194/1034 5-14=-200/1158 6-14=-670/129 7-14=-239/1262 7-12=-150/916

#### **NOTES**

BOT CHORD

TCLL (roof)

TCDI

BCLL

BCDL

Snow (Ps/Pg)

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- \*\* TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps= varies 5) (min. roof snow=19.2 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 6) Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- 8) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 10)
- 11) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 10 and 320 lb uplift at joint 2.

Job	Truss	Truss Type	Qty	Ply	
19050112	A12L	Truss	1	2	Job Reference (optional)

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- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 6-8-14 from the left end to connect truss (es) J1 (1 ply 2x4 SP), J6L (1 ply 2x4 SP) to back face of bottom chord.
- 17) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-9-4 from the left end to 23-10-4 to connect truss(es) J1 (1 ply 2x4 SP) to back face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-59, 5-7=-59, 7-10=-59, 17-21=-20

Concentrated Loads (lb)

Vert: 13=-223, 15=-636, 14=-223, 12=-223, 19=-225, 28=-223, 29=-223, 30=-223, 31=-223, 32=-223

Job Truss Type Qty Ply Truss A13G 1 1 19050112 Truss Job Reference (optional)

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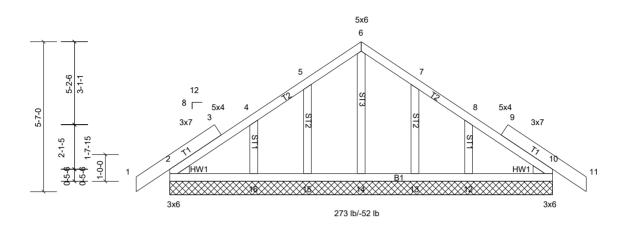
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

-1-3-0 1-8-0 7-1-8 14-3-0 15-6-0 1-3-0 5-5-8 5-5-8 1-8-0 1-8-0 1-3-0

14-3-0



Scale = 1:43.1 Plate Offsets (X, Y): [2:0-2-8,0-5-8], [10:Edge,0-3-8], [10:0-2-8,0-2-0]

ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
CLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
iow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
DL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
CLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
CDL	10.0										Weight: 89 lb	FT = 20%
	rading CLL (roof) How (Ps/Pg) CDL CLL CDL	CLL (roof) 30.0  100 (Ps/Pg) 19.3/25.0  CDL 10.0  CLL 0.0*	CLL (roof)         30.0         Plate Grip DOL now (Ps/Pg)           19.3/25.0         Lumber DOL now (Ps/Pg)           CDL         10.0         Rep Stress Incr Code           CLL         0.0*         Code	pading         (psf)         Spacing         2-0-0           CLL (roof)         30.0         Plate Grip DOL         1.15           slow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15           CDL         10.0         Rep Stress Incr         YES           CLL         0.0*         Code         IRC2015/TPI2014	Plading         (psf)         Spacing         2-0-0         CSI           CLL (roof)         30.0         Plate Grip DOL         1.15         TC           sow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC           CDL         10.0         Rep Stress Incr         YES         WB           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH	pading         (psf)         Spacing         2-0-0         CSI           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12           slow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06           CDL         10.0         Rep Stress Incr         YES         WB         0.07           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH	Rading         (psf)         Spacing         2-0-0         CSI         DEFL           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)           sow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Matrix-MSH	pading         (psf)         Spacing         2-0-0         CSI         DEFL         in           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)         n/a           slow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)         n/a           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)         0.00           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Matrix-MSH	Plading         (psf)         Spacing         2-0-0         CSI         DEFL         in (loc)           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)         n/a         -           slow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)         n/a         -           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)         0.00         10           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Matrix-MSH         Name         Name	Adding         (psf)         Spacing         2-0-0         CSI         DEFL         in (loc)         I/defl           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)         n/a         - n/a           iow (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)         n/a         - n/a           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)         0.00         10         n/a           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Matrix-MSH         Name         <	Rading         (psf)         Spacing         2-0-0         CSI         DEFL         in (loc)         I/defl         L/d           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)         n/a         - n/a         999           low (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)         n/a         - n/a         999           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)         0.00         10         n/a         n/a           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Matrix-MSH         Horz(CT)         0.00         10         n/a         n/a	Rading         (psf)         Spacing         2-0-0         CSI         DEFL         in (loc)         l/defl         L/d         PLATES           CLL (roof)         30.0         Plate Grip DOL         1.15         TC         0.12         Vert(LL)         n/a - n/a 999         MT20           Now (Ps/Pg)         19.3/25.0         Lumber DOL         1.15         BC         0.06         Vert(CT)         n/a - n/a 999         MT20           CDL         10.0         Rep Stress Incr         YES         WB         0.07         Horz(CT)         0.00         10         n/a n/a           CLL         0.0*         Code         IRC2015/TPI2014         Matrix-MSH         Natrix-MSH         Natrix-MSH

LUMBER BRACING

TOP CHORD 2x6 SP No.2 \*Except\* T2:2x4 SP No.2 TOP CHORD

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

WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

REACTIONS All bearings 14-3-0.

(lb) - Max Horiz 2=99 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 12, 13, 15, 16

Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15 except 2=261 (LC 2),

10=261 (LC 2), 12=273 (LC 2), 16=273 (LC 2)

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

#### **NOTES**

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope. 5)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 6) non-concurrent with other live loads.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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 100 lb uplift at joint(s) 15, 16, 13, 12,
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10. 13)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Qty Ply Truss Truss Type A15L 2 19050112 1 Truss Job Reference (optional)

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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.

3-8-8 7-1-8 14-3-0 15-6-0 3-8-8 3-5-0 3-5-0 3-8-8 1-3-0 8x10 12 3x3 3x3 <u> HW1</u> HW1 B1 9 8 5x12 5x10 5x5 5x8 4926 lb/-91 lb 3441 lb/-131 lb HUS26 HUS26 HUS26 THD28-2 4-10-3 7-5-0 9-4-13 14-3-0 Scale = 1:46.2 4-10-3 2-6-13 4-10-3 1-11-13 Plate Offsets (X, Y): [1:Edge,0-3-5], [3:0-3-0,0-1-12], [5:Edge,0-0-13], [8:0-6-4,0-2-8]

Loa	ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCI	LL (roof)	30.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.05	8-9	>999	240	MT20	244/190
Sno	ow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.08	8-9	>999	180		
TCI	DL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.03	5	n/a	n/a		
BC	LL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BC	DL	10.0										Weight: 238 lb	FT = 20%

LUMBER **BRACING** 

TOP CHORD 2x6 SP No.2 TOP CHORD

2x8 SP No.2 BOT CHORD **BOT CHORD** 2x4 SP No.3 WEBS Left: 2x4 SP No.2 WEDGE

REACTIONS (lb/size) 1=4395/0-5-8, (min. 0-2-15), 5=2996/0-5-8, (min. 0-2-0)

> 1=-103 (LC 6) Max Horiz

Right: 2x4 SP No.2

Max Uplift 1=-91 (LC 10), 5=-131 (LC 11) Max Grav 1=4926 (LC 2), 5=3441 (LC 2)

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

TOP CHORD 1-2=-6082/112, 2-3=-5914/154, 3-4=-4742/230, 4-5=-4922/191

1-16=-101/4898, 16-17=-101/4898, 9-17=-101/4898, 9-18=-79/3885, 8-18=-79/3885, 7-8=-89/4072, 5-7=-109/3899 BOT CHORD

**WEBS** 4-7=-193/287, 3-9=0/2613, 3-8=-179/3324, 3-7=-426/112

### **NOTES**

2-ply truss to be connected together with 10d (0.131"x3") nails as follows: 1)

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-8 2x4 - 2 rows staggered at 0-7-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3 Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf 5) (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 1 and 131 lb uplift at joint 5
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-8 from the left end to 5-10-8 to connect truss(es) A9 (1 ply 2x4 SP), A10 (1 ply 2x4 SP), A11 (1 ply 2x4 SP) to back face of bottom chord.

Job	Truss	Truss Type	Qty	Ply	
19050112	A15L	Truss	1	2	Job Reference (optional)

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13) Use USP THD28-2 (With 28-16d nails into Girder & 16-10d nails into Truss) or equivalent at 7-5-0 from the left end to connect truss(es) A12L (2 ply 2x6 SP) to back face of bottom chord.

14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-59, 3-6=-59, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-2601, 16=-1017, 17=-1365, 18=-1217

Job Truss Type Qty Ply Truss B<sub>1</sub>G 1 1 19050112 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:00 ID:vftq08VDIIYuWbQznTyMaizIY2H-xWP5SIJ1nhVSy2MK4?i7IUg 6N72pgybEWaUleyd7G9 .-1-3-0 1-3-0 1-8-0 1-8-0 24-3-0 11-3-8 25-11-0 27-2-0 12-11-8 11-3-8 1-8-0 11-3-0 5x6 9-5-11 12 8 — 5x4 5x4 15 <sub>3x7</sub> 3<sub>Y</sub>7 ⊴HW1 3x6 3x6 3x6 261 lb/-49 lb Scale = 1:56.9 25-11-0 Plate Offsets (X, Y): [2:0-2-8,0-5-8], [16:Edge,0-3-8], [16:0-2-8,0-2-0] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP (psf) TC 999 MT20 244/190 TCLL (roof) 30.0 Plate Grip DOL 1.15 0.10 Vert(LL) n/a n/a Snow (Ps/Pg) 19.3/25.0 Lumber DOI 1.15 вс 0.06 Vert(CT) n/a n/a 999 TCDI Rep Stress Incr YES 10.0 WB 0.18 Horz(CT) 0.01 16 n/a n/a IRC2015/TPI2014 BCLL 0.0\* Code Matrix-MSH BCDL 10.0 Weight: 184 lb FT = 20%LUMBER BRACING TOP CHORD 2x6 SP No.2 \*Except\* T2:2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No 2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing OTHERS 2x4 SP No.3 WEBS 1 Row at midpt WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2 REACTIONS All bearings 25-11-0. (lb) - Max Horiz 2=175 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 23, 25, 26, 27, 28, 29 Max Grav All reactions 250 (lb) or less at joint(s) 19, 20, 21, 23, 24, 25, 26, 27, 28 except 2=261 (LC 2), 16=261 (LC 2), 18=259 (LC 29), 29=259 (LC 28) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **NOTES** Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf 4) (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 6) non-concurrent with other live loads. All plates are 2x3 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. 8) Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 28, 12) 29, 23, 21, 20, 19, 18. Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 2. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

Standard

LOAD CASE(S)

B2 19050112 7 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:01 ID:vftq08VDIIYuWbQznTyMaizIY2H-PjzTqeKfY dJaCxWdiDMqhD?LnleYD9kTAJ1I4yd7G8 6-7-8 6-7-8 25-11-0 6-7-8 -1-3-0 1-3-0 12-11-8 19-3-8 5x6 12 5x4 9-9-14 13 3x6 3x4 3x6 3x4 3x6 1393 lb/-36 lb 1393 lb/-36 lb 25-11-0 Scale = 1:59.3 8-8-13 8-8-13 8-5-5 8-8-13 Plate Offsets (X, Y): [2:0-2-0,0-1-12], [8:0-2-0,0-1-12] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP (loc) Plate Grip DOL TC 0.71 >999 240 MT20 244/190 TCLL (roof) 30.0 1.15 Vert(LL) -0.2611-13 Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.74 Vert(CT) -0.3411-13 >907 180 TCDI Rep Stress Incr YES WB 10.0 0.44 Horz(CT) 0.05 10 n/a n/a BCLL IRC2015/TPI2014 Matrix-MSH 0.0\* Code BCDL 10.0 Weight: 160 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end 2x4 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 WFBS 1 Row at midpt 4-14, 6-10 REACTIONS (lb/size) 10=1087/0-5-8, (min. 0-1-10), 14=1087/0-5-8, (min. 0-1-10) 14=-205 (LC 10) Max Horiz Max Uplift 10=-36 (LC 13), 14=-36 (LC 12) Max Grav 10=1393 (LC 2), 14=1393 (LC 2) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-539/103. 3-4=-373/133. 4-5=-1491/196. 5-6=-1491/196. 6-7=-373/133. 7-8=-539/103. 2-14=-582/154. 8-10=-582/154 **BOT CHORD** 13-14=-59/1314, 13-15=0/906, 12-15=0/906, 12-16=0/906, 11-16=0/906, 10-11=0/1260 WEBS 5-11=-80/638, 6-11=-397/198, 5-13=-80/638, 4-13=-397/198, 4-14=-1188/0, 6-10=-1188/0 **NOTES** Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf 3) (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 5) non-concurrent with other live loads. 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 14 and 36 lb uplift at joint 10. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

Qty

Ply

Job

Truss

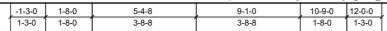
Truss Type

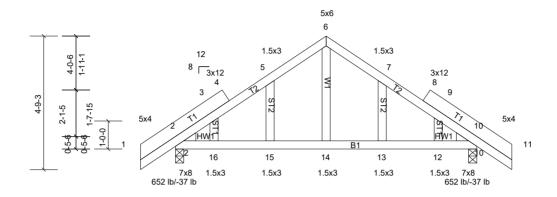
Job Qty Ply Truss Truss Type B<sub>3</sub>G 1 19050112 Truss 1 Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:01

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





5-4-8 10-9-0 Scale = 1:41.3 5-4-8 5-4-8

Plate Offsets (X, Y):	[2:Eage,0-2-	-8], [10:Eage,0-2-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.05	15-16	>999	240	MT20	244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	вс	0.51	Vert(CT)	-0.07	15-16	>999	180	1		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	10	n/a	n/a	1		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH							1		
BCDL	10.0										Weight: 73 lb	FT = 20%	

LUMBER BRACING

TOP CHORD 2x6 SP No.2 \*Except\* T2:2x4 SP No.2 TOP CHORD

2x4 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing WEBS 2x4 SP No.3 2x4 SP No.3

OTHERS Left: 2x4 SP No.2 WEDGE Right: 2x4 SP No.2

REACTIONS (lb/size) 2=506/0-3-8, (min. 0-1-8), 10=506/0-3-8, (min. 0-1-8)

[3.54== 0 3 0] [40.54== 0 3 0

Max Horiz 2=-88 (LC 10)

Max Uplift 2=-37 (LC 12), 10=-37 (LC 13) Max Grav 2=652 (LC 2), 10=652 (LC 2)

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

TOP CHORD 2-3=-594/27, 3-4=-540/30, 4-5=-538/40, 5-6=-548/89, 6-7=-548/89, 7-8=-538/40, 8-9=-539/30, 9-10=-594/27

**BOT CHORD** 2-16=0/477, 15-16=0/455, 14-15=0/455, 13-14=0/455, 12-13=0/455, 10-12=0/477

WEBS 6-14=-35/324

#### **NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Type Qty Ply Truss В4 2 1 19050112 Truss Job Reference (optional)

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I/defl

>999

>999

n/a n/a

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

L/d

240

180

**PLATES** 

Weight: 55 lb

MT20

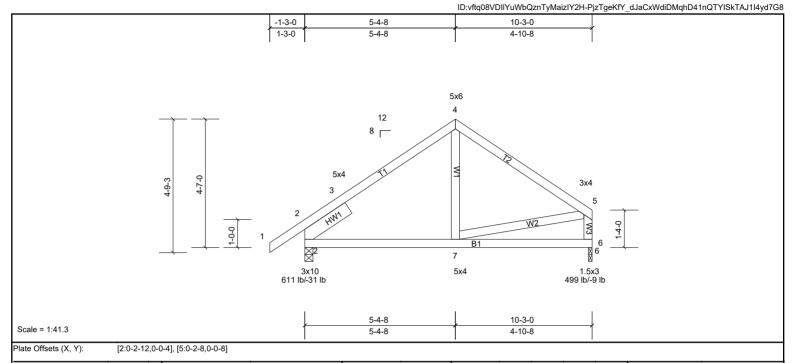
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

GRIP

244/190

FT = 20%

Page: 1



DFFI

Vert(LL)

Vert(CT)

Horz(CT)

-0.02

-0.04

0.02

7-10

7-10

2

0.41

0.24

0.10

BOT CHORD

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No 2 WEBS 2x4 SP No.3 Left 2x6 SP No.2 -- 1-11-0

30.0

10.0

10.0

0.0\*

19.3/25.0

REACTIONS 2=474/0-3-8, (min. 0-1-8), 6=392/0-1-8, (min. 0-1-8) (lb/size)

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Horiz 2=103 (LC 11)

Max Uplift 2=-31 (LC 12), 6=-9 (LC 13) Max Grav 2=611 (LC 2), 6=499 (LC 2)

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

TOP CHORD 3-4=-394/72, 4-5=-498/72, 5-6=-460/67

BOT CHORD 2-7=-97/328 5-7=-14/256 WEBS

## NOTES

Loading

TCDI

BCLL

BCDL

SLIDER

TCLL (roof)

Snow (Pf/Pg)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat 3) roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

2-0-0 CSI

1.15

1.15 вс

YES

IRC2015/TPI2014

TC

WB

Matrix-MSH

- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.2 psf on overhangs 5) non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 9 lb uplift at 9) ioint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

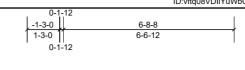
Job Truss Truss Type Qty Ply J1 19050112 27 1 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:01

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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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



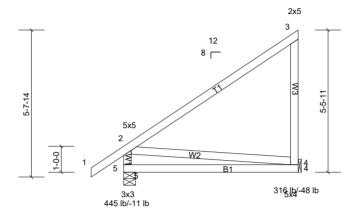


Plate Offsets (X, Y): [2:0-1-8,0-1-12]

Scale = 1:44.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.06	4-5	>999	240	MT20	244/190	
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	4-5	>642	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH									
BCDL	10.0										Weight: 42 lb	FT = 20%	
1						1					1		

6-8-8

**BOT CHORD** 

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

**BOT CHORD** 2x4 SP No 2

WEBS 2x4 SP No.3

> (lb/size) 4=243/ Mechanical, (min. 0-1-8), 5=342/0-5-8, (min. 0-1-8)

Max Horiz 5=160 (LC 9)

Max Uplift 4=-48 (LC 12), 5=-11 (LC 12) Max Grav 4=316 (LC 24), 5=445 (LC 2)

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

TOP CHORD 2-5=-380/113 **BOT CHORD** 4-5=-163/410 2-4=-374/188 WEBS

#### **NOTES**

REACTIONS

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5 and 48 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

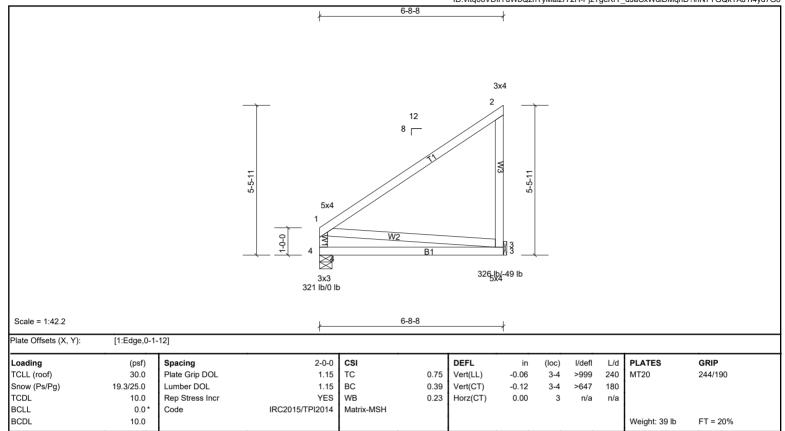
Job Truss Truss Type Qty Ply J2 19050112 4 1 Truss Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:01

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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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



TOP CHORD

BOT CHORD

LUMBER BRACING

3=252/ Mechanical, (min. 0-1-8), 4=252/0-5-8, (min. 0-1-8)

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

BOT CHORD

WEBS 2x4 SP No.3

REACTIONS (lb/size)

4=148 (LC 9) Max Horiz

Max Uplift 3=-49 (LC 12)

Max Grav 3=326 (LC 23), 4=321 (LC 2)

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

TOP CHORD 1-4=-257/60 **BOT CHORD** 3-4=-136/336 1-3=-294/134 WEBS

#### **NOTES**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 1) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Roof design snow load has been reduced to account for slope.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
19050112	J3	Truss	1	1	Job Reference (optional)

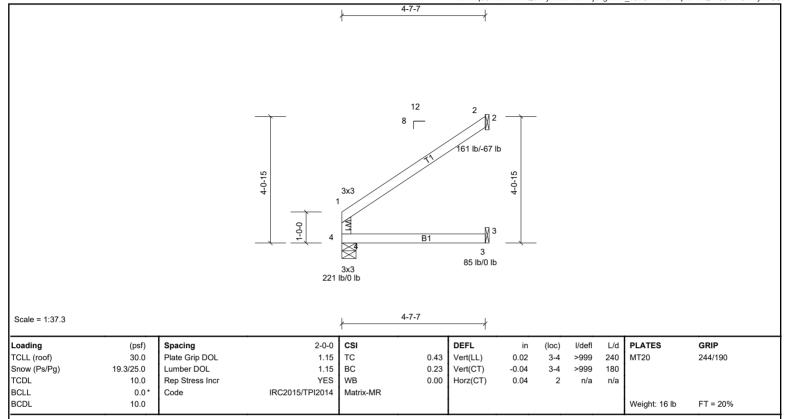
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Structural wood sheathing directly applied or 4-7-7 oc purlins, except end

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

verticals

**BOT CHORD** 



LUMBER BRACING TOP CHORD

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

2x4 SP No.3

REACTIONS 2=119/ Mechanical, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), (lb/size)

4=173/0-5-8, (min. 0-1-8)

Max Horiz 4=81 (LC 12) 2=-67 (LC 12) Max Uplift

Max Grav 2=161 (LC 2), 3=85 (LC 5), 4=221 (LC 2)

FORCES

WEBS

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

#### **NOTES**

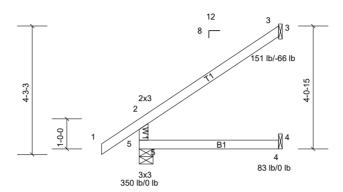
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- 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 3-06-00 tall by 5) 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
19050112	J4	Truss	7	1	Job Reference (optional)

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

Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvlGOBmAHmGuhq3aqWyd7G7

-1-3-0 4-7-7 1-3-0 4-7-7



4-7-7 Scale = 1:38.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.02	4-5	>999	240	MT20	244/190	
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	4-5	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR		İ							
BCDL	10.0			1		İ					Weight: 18 lb	FT = 20%	

LUMBER BRACING

TOP CHORD 2x4 SP No 2 TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end **BOT CHORD** 2x4 SP No.2 verticals

**BOT CHORD** 

2x4 SP No.3 WEBS

REACTIONS 3=112/ Mechanical, (min. 0-1-8), 4=49/ Mechanical, (min. 0-1-8), (lb/size) 5=268/0-5-8, (min. 0-1-8)

5=105 (LC 12) Max Horiz

3=-66 (LC 12) Max Uplift

Max Grav 3=151 (LC 2), 4=83 (LC 5), 5=350 (LC 2)

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

TOP CHORD 2-5=-313/71

#### **NOTES**

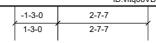
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide 6) will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

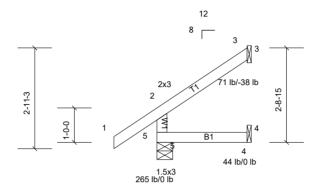
Job	Truss	Truss Type	Qty	Ply	
19050112	J5	Truss	8	1	Job Reference (optional)

Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvIJMBpWHmGuhq3aqWyd7G7

Structural wood sheathing directly applied or 2-7-7 oc purlins, except end

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





Scale = 1:33.7

		_		_							_		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	4-5	>999	240	MT20	244/190	
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180	1		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a	1		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							1		
BCDL	10.0			1							Weight: 12 lb	FT = 20%	

2-7-7

TOP CHORD

**BOT CHORD** 

verticals

LUMBER BRACING

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

2x4 SP No.2

2x4 SP No.3

(lb/size)

3=51/ Mechanical, (min. 0-1-8), 4=20/ Mechanical, (min. 0-1-8),

5=200/0-5-8, (min. 0-1-8)

Max Horiz 5=65 (LC 12)

3=-38 (LC 12) Max Uplift

Max Grav 3=71 (LC 24), 4=44 (LC 5), 5=265 (LC 2)

FORCES NOTES

WEBS

REACTIONS

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

- exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope.

Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3. 8)
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Type Qty Ply Truss J6L 1 19050112 Truss 4 Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:02

Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvIEhBlbHiauhg3agWyd7G7

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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

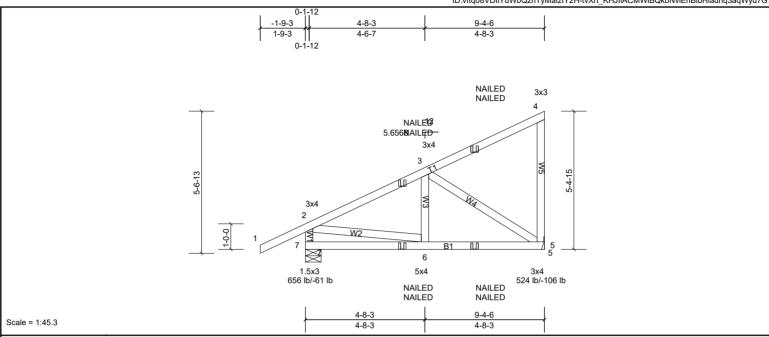


Plate Offsets (X, Y): [2:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.04	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		1						
BCDL	10.0			1							Weight: 58 lb	FT = 20%

BOT CHORD

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No.3

> (lb/size) 5=414/ Mechanical, (min. 0-1-8), 7=507/0-7-6, (min. 0-1-8)

7=169 (LC 11) Max Horiz

Max Uplift 5=-106 (LC 9), 7=-61 (LC 12) 5=524 (LC 2), 7=656 (LC 2) Max Grav

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

TOP CHORD 2-7=-618/83, 2-8=-601/83, 3-8=-464/62 **BOT CHORD** 6-12=-130/464, 5-12=-130/464 WEBS 2-6=-77/477, 3-5=-532/124

#### **NOTES**

REACTIONS

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 1) MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs 5) non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 7 and 106 lb uplift 9) at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and 10) referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

#### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 1)

Uniform Loads (lb/ft)

Vert: 1-2=-59, 2-4=-59, 5-7=-20

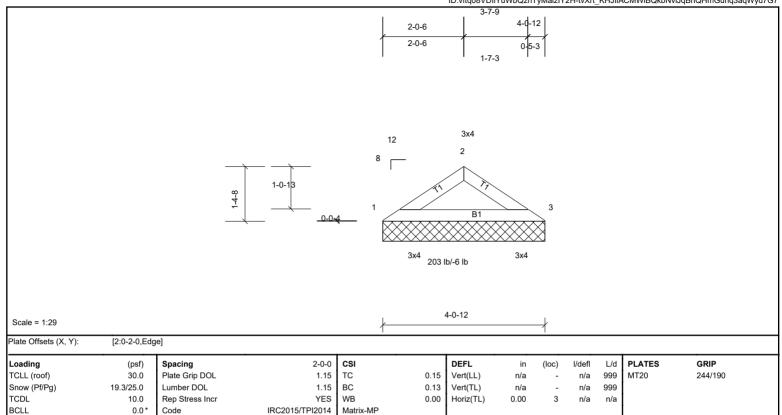
Concentrated Loads (lb)

Vert: 10=-58, 11=2, 12=-40

Job Truss Truss Truss Truss Truss Type Qty Ply Job Reference (optional)

Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:02 Page: 1

ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt\_KHJIIACMWiBQkbNvIJqBnQHmGuhq3aqWyd7G7
3-7-9



TOP CHORD

**BOT CHORD** 

Weight: 12 lb

Structural wood sheathing directly applied or 4-1-8 oc purlins.

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

FT = 20%

LUMBER BRACING

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

10.0

**REACTIONS** (lb/size) 1=159/4-0-12, (min. 0-1-8), 3=159/4-0-12, (min. 0-1-8)

Max Horiz 1=24 (LC 11)

Max Uplift 1=-6 (LC 12), 3=-6 (LC 13) Max Grav 1=203 (LC 2), 3=203 (LC 2)

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

TOP CHORD 1-2=-305/33

# NOTES

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been checked for uniform snow load only, except as noted.
- 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 3-06-00 tall by 2-00-00 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 6 lb uplift at joint 1 and 6 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Type Qty Ply Truss V2 19050112 3 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:02 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvlHyBIOHlPuhq3aqWyd7G7 4-0-6 7-7-9 3-7-3 4-0-6 5x4 2 12 ST 2-8-8 3 R 1.5x3 714 lb/-33 lb 3x4 3x4 8-0-12 Scale = 1:32.9 Spacing 2-0-0 CSI DEFL **PLATES** GRIP Loading (psf) in (loc) I/defI L/d Plate Grip DOL TCLL (roof) 30.0 1.15 TC 0.27 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pa) 19.3/25.0 Lumber DOL вс Vert(TL) 999 1.15 0.26 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.12 Horiz(TL) 0.00 3 n/a n/a BCLL IRC2015/TPI2014 Matrix-MP 0.0 Code **BCDL** 10.0 Weight: 28 lb FT = 20% LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 8-1-8 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. OTHERS 2x4 SP No.3 REACTIONS (lb/size) 1=36/8-0-12, (min. 0-1-8), 3=36/8-0-12, (min. 0-1-8), 4=560/8-0-12, (min. 1=-51 (LC 8) Max Horiz Max Uplift 1=-28 (LC 28), 3=-28 (LC 27), 4=-33 (LC 12) Max Grav 1=93 (LC 27), 3=93 (LC 28), 4=714 (LC 2) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-85/319, 2-3=-49/319 WEBS 2-4=-529/98 **NOTES** Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat 3)

- roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- Gable requires continuous bottom chord bearing. 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 3-06-00 tall by 7) 2-00-00 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 28 lb uplift at joint 1, 28 lb uplift at ioint 3 and 33 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and 9) referenced standard ANSI/TPI 1.

Job Truss Truss Type Qty Ply V3 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:02 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvIIGBoaHlAuhq3aqWyd7G7 5-11-10 11-6-1 5-6-7 5-6-7 5x6 3 1.5x3 12 1.5x3 9-0-2 3x4 1.5x3 1.5x3 374 lb/-81 lb 1.5x3 3x4 11-11-4 Scale = 1:37.5 Spacing 2-0-0 CSI DEFL **PLATES** GRIP Loading (psf) in (loc) I/defI L/d Plate Grip DOL TC TCLL (roof) 30.0 1.15 0.25 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Ps/Pa) 19.3/25.0 Lumber DOL 1.15 вс Vert(TL) 999 0.12 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.07 Horiz(TL) 0.00 5 n/a n/a BCLL IRC2015/TPI2014 Matrix-SH 0.0 Code BCDL 10.0 Weight: 45 lb FT = 20% LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3 REACTIONS All bearings 11-11-4. (lb) - Max Horiz 1=-71 (LC 8) All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8 Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=374 (LC 28), 7=327 (LC 2), 8=374 (LC 27) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown WEBS 2-8=-320/126, 4-6=-320/126 **NOTES** Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf 3) (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. Gable requires continuous bottom chord bearing. 5) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6. 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

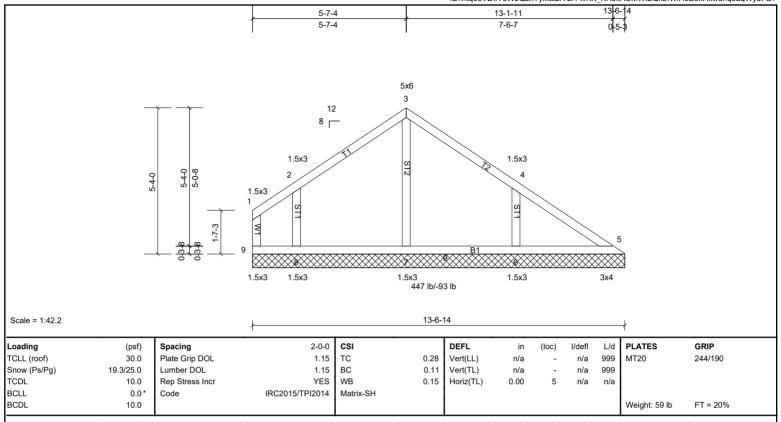
Standard

LOAD CASE(S)

Job Truss Truss Type Qty V4 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:02 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvIHoBokHkwuhg3agWyd7G7

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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



TOP CHORD

**BOT CHORD** 

verticals

LUMBER BRACING

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

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS All bearings 13-6-14.

(lb) - Max Horiz 9=-111 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6, 8, 9

Max Grav All reactions 250 (lb) or less at joint(s) 5, 9 except 6=447 (LC 28), 7=370

(LC 2), 8=378 (LC 27)

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

3-7=-291/2, 2-8=-312/127, 4-6=-351/134

## WEBS **NOTES**

**FORCES** 

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf 3) (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Gable requires continuous bottom chord bearing. 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 3-06-00 tall by 7) 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5, 8, 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Job Truss Truss Type Qty V5 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-tvXrt KHJIIACMWiBQkbNvIHfBndHjquhq3aqWyd7G7 5-7-4 5×6 3 12 9-8-0 2-11-3

Scale = 1:46.9

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 75 lb	FT = 20%

495 lb/-91 lb

TOP CHORD

**BOT CHORD** 

verticals

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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

LUMBER BRACING

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

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

All bearings 15-6-14.

(lb) - Max Horiz 11=-150 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) 6, 7, 8, 10, 11

Max Grav All reactions 250 (lb) or less at joint(s) 6, 11 except 7=327 (LC 2), 8=480

(LC 24), 9=495 (LC 24), 10=438 (LC 23)

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

WEBS 3-9=-293/22, 2-10=-310/124, 4-8=-358/140, 5-7=-264/105

#### **NOTES**

REACTIONS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 1) Roof design snow load has been reduced to account for slope.
- 5) All plates are 1.5x3 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 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) 11, 6, 10, 8, 7.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Truss Type Qty Ply V6 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 ID:vftq08VDIIYuWbQznTvMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6ISXa6i08B1wTo8Mzvd7G6 17-6-14 5x6 3 12 8 🗀 1.5x3 1.5x3 3-0-0 1.5x3 1.5x3 1.5x3 1.5x3 506 lb/-88 lb Scale = 1:51.7 17-6-14 Plate Offsets (X, Y): [7:0-3-0,0-3-0] Loading Spacing 2-0-0 CSI DFFI I/defl L/d PI ATES GRIP 30.0 Plate Grip DOL TC 0.28 999 MT20 244/190 TCLL (roof) 1.15 Vert(LL) n/a n/a Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.19 Vert(TL) n/a n/a 999 TCDI Rep Stress Incr YES WB Horiz(TL) 10.0 0.34 0.01 6 n/a n/a BCLL IRC2015/TPI2014 0.0\* Code Matrix-SH BCDL 10.0 Weight: 91 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end 2x4 SP No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except: WEBS 2x4 SP No.3 10-0-0 oc bracing: 6-7 2x4 SP No.3 OTHERS REACTIONS All bearings 17-6-14. (lb) - Max Horiz 11=-190 (LC 10) Max Uplift All uplift 100 (lb) or less at joint(s) 6, 7, 8, 10, 11 Max Grav All reactions 250 (lb) or less at joint(s) 6, 11 except 7=413 (LC 2), 8=462 (LC 24), 9=506 (LC 24), 10=434 (LC 23) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-9=-296/35, 2-10=-308/125, 4-8=-348/137, 5-7=-314/120 **NOTES** Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. 5) All plates are 1.5x3 MT20 unless otherwise indicated 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. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 8) 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6, 10, 8, 7. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S)

Job Truss Truss Type Qty Ply V7 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6ITAa7o0CP1wTo8Mzyd7G6 12-0-12 6-0-6 11-7-9 6-0-6 5-7-3 5x6 3 1.5x3 1.5x3 9-0-2 3x4 1.5x3 1.5x3 3x4 384 lb/-82 lb 12-0-12 Scale = 1:37.6 Spacing 2-0-0 CSI DEFL **PLATES** GRIP Loading (psf) in (loc) I/defI L/d Plate Grip DOL TCLL (roof) 30.0 1.15 TC 0.24 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pa) 19.3/25.0 Lumber DOL 1.15 вс 0.12 Vert(TL) 999 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.07 Horiz(TL) 0.00 5 n/a n/a BCLL IRC2015/TPI2014 Matrix-MSH 0.0 Code BCDL 10.0 Weight: 45 lb FT = 20% LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3 REACTIONS All bearings 12-0-12. (lb) - Max Horiz 1=-78 (LC 8) All uplift 100 (lb) or less at joint(s) 1, 6, 8 Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=384 (LC 28), 7=321 (LC 2), 8=384 (LC 27) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-335/137, 4-6=-335/137 **NOTES** Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 This truss has been checked for uniform snow load only, except as noted. Gable requires continuous bottom chord bearing. 5) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6. 9) This truss is designed in accordance with the 2015 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 V8 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 ID:vftq08VDIIYuWbQznTyMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6IQqa6J09W1wTo8Mzyd7G6 8-0-6 15-7-9 8-0-6 7-7-3 5x6 3 1.5x3 1.5x3 12 1.5x3 697 lb/-103 lb 3x4 1.5x3 5x6 3x4 Scale = 1:42.4 16-0-12 Plate Offsets (X, Y): [6:0-3-0,0-3-0] Loading Spacing 2-0-0 CSI DFFI I/defl L/d **PLATES** GRIP (psf) Plate Grip DOL TC 999 MT20 244/190 TCLL (roof) 30.0 1.15 0.39 Vert(LL) n/a n/a Snow (Pf/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.15 Vert(TL) n/a n/a 999 TCDI Rep Stress Incr YES WB Horiz(TL) 10.0 0.32 -0.01 5 n/a n/a Matrix-MSH BCLL IRC2015/TPI2014 0.0\* Code BCDL 10.0 Weight: 65 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. 2x4 SP No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SP No.3 REACTIONS All bearings 16-0-12. (lb) - Max Horiz 1=105 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6 except 8=-104 (LC 12) Max Grav All reactions 250 (lb) or less at joint(s) 1 except 6=466 (LC 28), 7=697 (LC 2), 8=470 (LC 27) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-92/409, 2-3=0/397, 3-4=0/395, 4-5=-25/406 BOT CHORD 1-8=-265/70, 7-8=-265/55, 6-7=-265/55, 5-6=-260/53 WEBS 3-7=-635/0, 2-8=-358/141, 4-6=-356/139 NOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=115mph (3-second qust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat 3) roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 This truss has been checked for uniform snow load only, except as noted. 5) Gable requires continuous bottom chord bearing. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except 8) (it=lb) 8=1039) This truss is designed in accordance with the 2015 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 V9 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 ID:vftq08VDIIYuWbQznTvMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6ISCa6I0941wTo8Mzvd7G6 10-0-6 19-7-9 10-0-6 5x6 12 3x6 561 lb/-108 lb Scale = 1:47.1 20-0-12 Spacing 2-0-0 CSI DEFL L/d **PLATES** GRIP Loading (psf) in (loc) I/defI Plate Grip DOL TCLL (roof) 30.0 1.15 TC 0.30 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pa) 19.3/25.0 Lumber DOL вс Vert(TL) 999 1.15 0.19 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.28 Horiz(TL) 0.00 n/a n/a BCLL IRC2015/TPI2014 Matrix-MSH 0.0 Code BCDL 10.0 Weight: 86 lb FT = 20% LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. OTHERS 2x4 SP No.3 REACTIONS All bearings 20-0-12. (lb) - Max Horiz 1=-132 (LC 8) Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 13, 7 except 10=-109 (LC 13), Max Grav All reactions 250 (lb) or less at joint(s) 1 except 8=368 (LC 2), 10=471 (LC 24), 11=561 (LC 26), 12=484 (LC 23), 13=331 (LC 27) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-11=-358/0, 3-12=-358/149, 2-13=-268/112, 5-10=-352/152, 6-8=-282/104 **NOTES** Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=115mph (3-second qust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Pf=19.2 psf (flat 3) roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 This truss has been checked for uniform snow load only, except as noted. 5) All plates are 1.5x3 MT20 unless otherwise indicated. 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. 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except 9) (jt=lb) 12=101, 10=108. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

Job Truss Type Qty Ply Truss V10 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6ISsa6e0CP1wTo8Mzyd7G6 6-3-2 6-3-2 2x3 3x4 3 1.5x3 3-11-0 12 5 1.5x3 401 lb/-74 lb 3x4 1.5x3 6-8-2 Scale = 1:38.2 Plate Offsets (X, Y): [3:0-2-0,Edge] Loading Spacing 2-0-0 CSI DFFI I/defl L/d **PLATES** GRIP (psf) Plate Grip DOL TC 999 244/190 TCLL (roof) 30.0 1.15 0.26 Vert(LL) n/a n/a MT20 Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.13 Vert(TL) n/a n/a 999 TCDI Rep Stress Incr YES WB Horiz(TL) 10.0 0.07 n/a n/a n/a BCLL IRC2015/TPI2014 0.0\* Code Matrix-SH BCDL 10.0 Weight: 28 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end 2x4 SP No.2 BOT CHORD **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 2x4 SP No.3 OTHERS REACTIONS (lb/size) 1=17/6-8-2, (min. 0-1-8), 5=145/6-8-2, (min. 0-1-8), 6=315/6-8-2, (min. 1=112 (LC 9) Max Horiz 1=-26 (LC 10), 5=-12 (LC 12), 6=-74 (LC 12) Max Uplift Max Grav 1=58 (LC 9), 5=185 (LC 2), 6=401 (LC 2) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-6=-329/133 **NOTES** 1)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- 5) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 12 lb uplift at 8) joint 5 and 74 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Job Truss Truss Type Qty Ply V11 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:03 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-L54D4KLv4ct0pV5vI7Gqv6ISha6r0DV1wTo8Mzyd7G6 4-3-2 4-3-2 0-5-0 2x3 3x4 2 3 12 В1 4 1.5x3 204 lb/-21 lb 4-8-2 Scale = 1:33.4 Plate Offsets (X, Y): [2:0-2-0,Edge] Loading Spacing 2-0-0 CSI DFFI I/defl L/d **PLATES** GRIP (psf) Plate Grip DOL TC 0.27 999 244/190 TCLL (roof) 30.0 1.15 Vert(LL) n/a n/a MT20 Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.18 Vert(TL) n/a n/a 999 TCDI Rep Stress Incr YES WB Horiz(TL) 10.0 0.00 n/a n/a n/a BCLL IRC2015/TPI2014 0.0\* Code Matrix-R BCDL 10.0 Weight: 18 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end 2x4 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing WEBS 2x4 SP No.3 REACTIONS (lb/size) 1=160/4-8-2, (min. 0-1-8), 4=160/4-8-2, (min. 0-1-8) Max Horiz 1=73 (LC 9) Max Uplift 1=-1 (LC 12), 4=-21 (LC 12) Max Grav 1=204 (LC 2), 4=204 (LC 2) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. NOTES Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. 5) Gable requires continuous bottom chord bearing. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 7) 2-00-00 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 1 lb uplift at joint 1 and 21 lb uplift at joint 4. . This truss is designed in accordance with the 2015 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 V12 19050112 1 1 Truss Job Reference (optional) Run: 8.31 S May 22 2019 Print: 8.310 S May 22 2019 MiTek Industries, Inc. Mon Sep 16 08:35:04 Page: 1 ID:vftq08VDIIYuWbQznTyMaizIY2H-pleblgMXrv?tRfq5Jrn3SKqhk UHkqlB97YhuPyd7G5 2-8-2 2-3-2 2-3-2 1.5x3 3v4 12 2 3 B1 1.5x3 3x4 104 lb/-8 lb 2-8-2 Scale = 1:28.7 Plate Offsets (X, Y): [2:0-2-0,Edge] Loading Spacing 2-0-0 CSI DFFI I/defl L/d **PLATES** GRIP (psf) Plate Grip DOL TC 999 244/190 TCLL (roof) 30.0 1.15 0.06 Vert(LL) n/a n/a MT20 Snow (Ps/Pg) 19.3/25.0 Lumber DOL 1.15 вс 0.04 Vert(TL) n/a n/a 999 TCDI Rep Stress Incr YES WB Horiz(TL) 10.0 0.00 n/a n/a n/a BCLL IRC2015/TPI2014 0.0\* Code Matrix-R BCDL 10.0 Weight: 9 lb FT = 20%LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end BOT CHORD 2x4 SP No 2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing WEBS 2x4 SP No.3 REACTIONS (lb/size) 1=82/2-8-2, (min. 0-1-8), 4=82/2-8-2, (min. 0-1-8) Max Horiz 1=34 (LC 9) Max Uplift 1=-1 (LC 12), 4=-8 (LC 12) Max Grav 1=104 (LC 2), 4=104 (LC 2) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. NOTES Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; 2) MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (ground snow); Ps=19.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Roof design snow load has been reduced to account for slope. 5) Gable requires continuous bottom chord bearing. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 7) 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 8 lb uplift at 8) joint 4. . This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

Job	Truss		Truss	Туре		Qty	y Ply							
19050112	V13		Truss	;		1	ı	1	Job Reference (optional)					
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					5.7.0		ID	:vftq08VDII		nTyMaiz	IY2H-pleblgM	Xrv?tRfg5Jrn3S	SKqfe_TUkgzB9	7YhuPyd7G5
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				3X4	2x3	334 lb/-6	2x3 65 lb	2	2x3		3x4			
Scale = 1:36.6				l		11-2	2-4					l		
		Г							-			7 1	-	
Loading FCLL (roof)	(psf) 30.0	Spacing Plate Grip DOL		2-0-0 1.15	TC	0.13	DEF Vert(		in n/a	(loc)	I/defl L/d n/a 999	PLATES MT20	<b>GRIP</b> 244/190	
Snow (Ps/Pg)	19.3/25.0	Lumber DOL		1.15	BC	0.09	Vert(	TL)	n/a	-	n/a 999	101120	244/100	
FCDL BCLL	10.0 0.0*	Rep Stress Incr Code	II	YES RC2015/TPI2014	WB Matrix-SH	0.05	Horiz	z(TL)	0.00	5	n/a n/a	ł		
BCDL	10.0											Weight: 45 lb	FT = 20%	
LUMBER					E	RACING								
TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2					OP CHO						applied or 6-0- -0-0 oc bracing.	•	
OTHERS	2x4 SP No.3				_	01 0110	I (D	1 45	gia comi	g uncomy	applied of 10	o o oo braomg.		
REACTIONS	All bearings 11- (lb) - Max Horiz 1=													
	Max Uplift Al	Il uplift 100 (lb) or less at												
		ll reactions 250 (lb) or le .C 2)	ss at joir	nt(s) 1, 5, 7 except	6=334 (LC 2), 8=334									
FORCES	(lb) - Max	k. Comp./Max. Ten All	forces 2	50 (lb) or less exce	ept when shown.									
NOTES  1) Unbalanc	ed roof live loads ha	ve been considered	for this	design										
2) Wind: AS	CE 7-10; Vult=115m	ph (3-second gust) \	/asd=9	1mph; TCDL=6.						ed;				
		one and C-C Exterio d forces & MWFRS f							rigni					
		s in the plane of the to sf (roof live load: Lum			OI =1 15): Pa=25 (	nsf (ar	ound :	snow)· Ps:	=19 2 n	ef				
(roof snov	w: Lumber DOL=1.15	5 Plate DOL=1.15); C	Categor	y II; Exp B; Parti		, psi (git	Juliu .	3110W), 1 3	-10.2 p	31				
	gn snow load has be juires continuous bol	een reduced to accou ttom chord bearing	unt for s	slope.										
	ds spaced at 2-0-0 o													
		for a 10.0 psf bottom d for a live load of 20							tall by					
,		he bottom chord and			ord iii aii areas wiid	sie a iet	Janyı	e 3-00-00	tall by					
		on (by others) of truss rdance with the 2015												
	d standard ANSI/TP		mieni	auonan Kesidelil	iai Code sections f	NUZ. 11	. ı all	a 1300Z. IU	.∠ anu					
LOAD CASE(S)	Standard													
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