

FULL SIZED LEDGIBLE COLOR REPORT ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS



Re: J1146908A Grant



Tri-State Engineering, Inc. 12810 NE 178th Street Suite 218 Woodinville, WA 98072 425.481.6601

The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I15077426 thru I15077434

My license renewal date for the state of Washington is August 20, 2024.



April 5,2024

BE

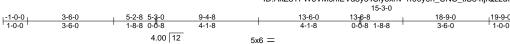
PROVIDED

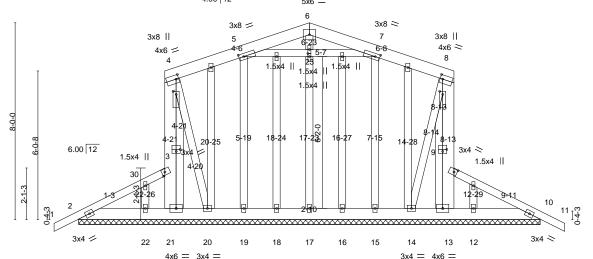
W

Terry Powell

The seal on these drawings indicate acceptance of professional engineering reconsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Scale = 1:46.8





13-6-8

15-3-0

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

18-9-0

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

	3-6-0	1-8-8 4	l-2-0 4-2-0	1-8-8	3-6-0	
Plate Offsets (X,Y) [3:0-1	-8,0-1-8], [4:0-2-0,2-4-13], [4:0-1-8,0-1-8],	[4:0-1-4,0-2-0], [5:0-2-4,0-1-8],	[7:0-2-4,0-1-8], [8:0-1-4,0-2-0], [8:0)-1-8,0-1-8], [8:0-2-0,2-4-	13], [9:0-1-8,0-1-8], [23:0-1-8,0-0-12]	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.05 WB 0.21	DEFL. in (loc) Vert(LL) 0.00 10 Vert(CT) 0.00 10 Horz/CT) 0.00 10	I/defl L/d n/r 120 n/r 90 n/a n/a	PLATES GRIP MT20 185/148	
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-SH	(0.1)	.,	Weight: 197 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

9-4-8

LUMBER-

2x6 DF SS *Except TOP CHORD 1-3.9-11: 2x4 HF No.2

BOT CHORD 2x6 DF SS WEBS 2x4 DF Stud *Except* 4-21,8-13: 2x6 DF SS OTHERS 2x4 DF Stud

All bearings 18-9-0. Max Horz 2=206(LC 12) REACTIONS. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 21=-138(LC 9), 13=-204(LC 12), 20=-410(LC 39), 14=-410(LC 36) Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 22, 16, 15, 14, 12, 17 except 2=320(LC 35), 10=320(LC 38), 21=784(LC 20), 13=742(LC 1)

5-2-8

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

TOP CHORD $3-21 = -807/343, \ 3-4 = -789/358, \ 4-5 = -349/142, \ 5-6 = -668/305, \ 2-3 = -334/131, \ 9-13 = -762/320, \ 8-9 = -788/323, \ 9-12 = -789/358,$

3-6-0

9-10=-312/125, 6-7=-668/305, 7-8=-349/142

WEBS 5-23=-166/431, 7-23=-166/431, 4-20=-204/459, 8-14=-204/459

NOTES-(13)

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 3-8-12, Corner(3E) 3-8-12 to 6-7-8, Corner(3R) 6-7-8 to 12-1-8, Corner(3E) 12-1-8 to 15-0-4, Exterior(2N) 15-0-4 to 16-9-0, Corner(3E) 16-9-0 to 19-9-0 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) Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.8) Gable studs spaced at 1-4-0 oc.
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 21=138, 13=204, 20=410, 14=410.
- 12) Attic room checked for L/360 deflection.
- 13) All dimensions given in feet-inches-sixteenths (FFIISS) format.



April 5,2024

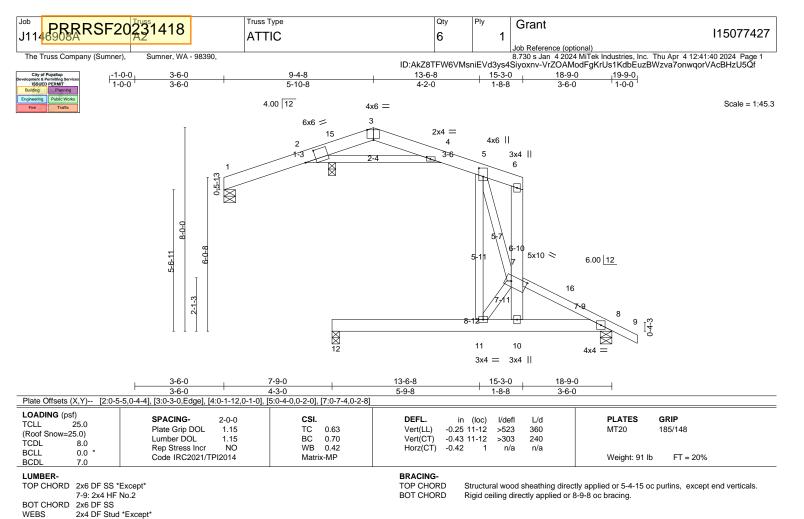


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

**ANSI/TPI Quality Criteria, DSB-89 and BCS11 Building Component available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





6-10: 2x6 DF SS

(size) 12=0-3-8, 8=0-5-8, 2=0-3-8, 1=0-5-8

Max Horz 12=-105(LC 11) Max Uplift 8=-53(LC 13), 1=-251(LC 35)

Max Grav 12=497(LC 35), 8=637(LC 1), 2=942(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-15=-410/191, 7-10=-235/735, 6-7=-780/209, 7-8=-1075/68, 5-6=-265/124

BOT CHORD 10-11=-19/902, 8-10=-11/958

WEBS 2-4=-91/284, 5-11=0/586, 7-11=-1377/366

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 3-8-12 to 6-8-6, Exterior(2R) 6-8-6 to 12-1-8, Exterior(2E) 12-1-8 to 15-0-4, Interior(1) 15-0-4 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 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
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 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.
- 6) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=251.

 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 has/have been modified.
- Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Attic room checked for L/360 deflection.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B) 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

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

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-76(F=-10), 2-3=-66, 7-9=-66, 3-4=-66, 4-5=-76(F=-10), 5-6=-66

2) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-64(F=-10), 2-3=-53, 7-9=-54, 3-4=-53, 4-5=-63(F=-10), 5-6=-54

3) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-87(F=-10), 2-3=-77, 7-9=-27, 3-4=-27, 4-5=-37(F=-10), 5-6=-27

Continued on page 2



April 5,2024



Qty 6

1

Grant

115077427

The Truss Company (Sumner), Sumner, WA - 98390, Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:40 2024 Page 2
ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-VrZOAModFgKrUs1KdbEuzBWzva7onwqorVAcBHzU5Qf

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (Unbal, Right); Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-37(F=-10), 2-3=-27, 7-9=-54, 3-4=-53, 4-5=-63(F=-10), 5-6=-54

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 11-12=-104(F=-70), 11-14=-34, 8-14=-34, 2-4=-10(F), 1-2=-26(F=-10), 2-3=-16, 7-9=-16, 3-4=-16, 4-5=-26(F=-10), 5-6=-16

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=2(F=11), 8-11=-8, 2-4=-10(F), 1-2=17(F=-10), 2-3=39, 7-16=22, 8-16=27, 8-9=39, 3-4=39, 4-5=17(F=-10), 5-6=27 Horz: 1-2=-37, 2-3=-49, 6-7=34, 7-16=32, 8-16=37, 8-9=49, 3-4=49, 4-6=37

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-77(F=-63), 8-11=-14, 2-4=-10(F), 1-2=-39(F=-10), 2-3=-29, 7-8=-29, 8-9=-6, 3-4=-29, 4-5=-39(F=-10), 5-6=-29 Horz: 1-3=13, 6-7=50, 7-8=-13, 8-9=10, 3-6=-13

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-20(F=-12), 8-11=-8, 2-4=-10(F), 1-2=7(F=-10), 2-3=17, 7-8=6, 8-9=3, 3-4=8, 4-5=-2(F=-10), 5-6=8 Horz: 1-3=-26, 6-7=-18, 7-8=16, 8-9=12, 3-6=18

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-20(F=-12), 8-11=-8, 2-4=-10(F), 1-2=-2(F=-10), 2-3=8, 7-8=-2, 8-9=7, 3-4=17, 4-5=7(F=-10), 5-6=17 Horz: 1-3=-18, 6-7=7, 7-8=8, 8-9=17, 3-6=26

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-68(F=-54), 8-11=-14, 2-4=-10(F), 1-2=-7(F=-10), 2-3=3, 7-8=-7, 8-9=-4, 3-4=-6, 4-5=-16(F=-10), 5-6=-6 Horz: 1-3=-19, 6-7=-3, 7-8=9, 8-9=12, 3-6=10

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-82(F=-68), 8-11=-14, 2-4=-10(F), 1-2=-16(F=-10), 2-3=-6, 7-8=-16, 8-9=-12, 3-4=3, 4-5=-7(F=-10), 5-6=3 Horz: 1-3=-10, 6-7=22, 7-8=0, 8-9=4, 3-6=19

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 11-12=-20(F=-12), 8-11=-8, 2-4=-10(F), 1-2=7(F=-10), 2-3=17, 7-8=5, 8-9=2, 3-4=5, 4-5=-5(F=-10), 5-6=5 Horz: 1-3=-26, 6-7=-19, 7-8=15, 8-9=11, 3-6=15

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 11-12=-20(F=-12), 8-11=-8, 2-4=-10(F), 1-2=-5(F=-10), 2-3=5, 7-8=17, 8-9=13, 3-4=17, 4-5=7(F=-10), 5-6=17

Horz: 1-3=-15, 6-7=-30, 7-8=26, 8-9=22, 3-6=26

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-28(F=-20), 8-11=-8, 2-4=-10(F), 1-2=-1(F=-10), 2-3=9, 7-8=2, 8-9=-2, 3-4=2, 4-5=-8(F=-10), 5-6=2 Horz: 1-3=-18, 6-7=-15, 7-8=12, 8-9=8, 3-6=12

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-28(F=-20), 8-11=-8, 2-4=-10(F), 1-2=-8(F=-10), 2-3=2, 7-8=9, 8-9=5, 3-4=9, 4-5=-1(F=-10), 5-6=9 Horz: 1-3=-12, 6-7=-22, 7-8=18, 8-9=14, 3-6=18

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 11-12=-68(F=-54), 8-11=-14, 2-4=-10(F), 1-2=-7(F=-10), 2-3=3, 7-8=-9, 8-9=-5, 3-4=-9, 4-5=-19(F=-10), 5-6=-9 Horz: 1-3=-19, 6-7=-4, 7-8=7, 8-9=11, 3-6=7

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 11-12=-68(F=-54), 8-11=-14, 2-4=-10(F), 1-2=-19(F=-10), 2-3=-9, 7-8=3, 8-9=6, 3-4=3, 4-5=-7(F=-10), 5-6=3

Horz: 1-3=-7, 6-7=-15, 7-8=19, 8-9=22, 3-6=19 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-64(F=-50), 8-11=-14, 2-4=-10(F), 1-2=-26(F=-10), 2-3=-16, 7-8=-16, 8-9=-66, 3-4=-16, 4-5=-26(F=-10), 5-6=-16

19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-20(F), 1-2=-36(F=-20), 2-3=-16, 7-9=-16, 3-4=-16, 4-5=-36(F=-20), 5-6=-16

20) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-107(F=-10), 2-3=-97, 7-9=-31, 3-4=-31, 4-5=-41(F=-10), 5-6=-31

21) Dead + Snow (Unbal, Right); Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-41(F=-10), 2-3=-31, 7-9=-66, 3-4=-66, 4-5=-76(F=-10), 5-6=-66

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 11-12=-104(F=-90), 8-11=-14, 2-4=-10(F), 1-2=-49(F=-10), 2-3=-39, 7-8=-47, 8-9=-44, 3-4=-46, 4-5=-56(F=-10), 5-6=-46

Horz: 1-3=-14, 6-7=-2, 7-8=6, 8-9=9, 3-6=8
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 11-12=-115(F=-101), 8-11=-14, 2-4=-10(F), 1-2=-56(F=-10), 2-3=-46, 7-8=-53, 8-9=-50, 3-4=-39, 4-5=-49(F=-10), 5-6=-39 Horz: 1-3=-8, 6-7=17, 7-8=0, 8-9=3, 3-6=14 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 11-12=-104(F=-90), 8-11=-14, 2-4=-10(F), 1-2=-49(F=-10), 2-3=-39, 7-8=-48, 8-9=-45, 3-4=-48, 4-5=-58(F=-10), 5-6=-48

Horz: 1-3=-14, 6-7=-3, 7-8=6, 8-9=8, 3-6=6 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-104(F=-90), 8-11=-14, 2-4=-10(F), 1-2=-58(F=-10), 2-3=-48, 7-8=-39, 8-9=-37, 3-4=-39, 4-5=-49(F=-10), 5-6=-39 Horz: 1-3=-6, 6-7=-11, 7-8=14, 8-9=17, 3-6=14 27) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 11-12=-46(F=-38), 8-11=-8, 2-4=-10(F), 1-2=-36(F=-10), 2-3=-26, 7-8=-26, 8-9=7, 3-4=-26, 4-5=-36(F=-10), 5-6=-26 Horz: 1-3=16, 6-7=16, 7-8=-16, 8-9=16, 3-6=-16

28) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3







J ₁₁₄ PRRRSF20 231418

Truss Type **ATTIC**

Qty 6

1

Grant

115077427

The Truss Company (Sumner),

Sumner, WA - 98390,

Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:40 2024 Page 3
ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-VrZOAModFgKrUs1KdbEuzBWzva7onwqorVAcBHzU5Qf

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 11-12=-46(F=-38), 8-11=-8, 2-4=-10(F), 1-2=-3(F=-10), 2-3=7, 7-9=7, 3-4=7, 4-5=-3(F=-10), 5-6=7 Horz: 1-3=-16, 6-7=16, 7-9=16, 3-6=16

29) 3rd Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-37(F=-10), 2-3=-27, 7-9=-27, 3-4=-65, 4-5=-75(F=-10), 5-6=-65

30) 4th Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-87(F=-10), 2-3=-77, 7-9=-27, 3-4=-27, 4-5=-37(F=-10), 5-6=-27 31) 5th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-37(F=-10), 2-3=-27, 7-9=-27, 3-4=-77, 4-5=-87(F=-10), 5-6=-77

32) 6th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 11-12=-102(F=-87), 8-11=-14, 2-4=-10(F), 1-2=-37(F=-10), 2-3=-27, 7-9=-65, 3-4=-27, 4-5=-37(F=-10), 5-6=-27

33) 7th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-41(F=-10), 2-3=-31, 7-9=-31, 3-4=-81, 4-5=-91(F=-10), 5-6=-81 34) 8th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-107(F=-10), 2-3=-97, 7-9=-31, 3-4=-31, 4-5=-41(F=-10), 5-6=-31

35) 9th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

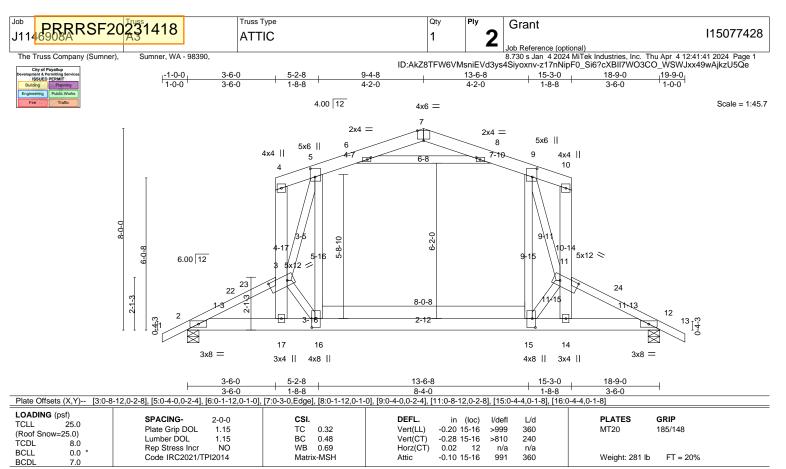
Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-41(F=-10), 2-3=-31, 7-9=-31, 3-4=-97, 4-5=-107(F=-10), 5-6=-97

36) 10th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 11-12=-114(F=-100), 8-11=-14, 2-4=-10(F), 1-2=-41(F=-10), 2-3=-31, 7-9=-82, 3-4=-31, 4-5=-41(F=-10), 5-6=-31







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 DF SS *Except TOP CHORD 1-3.11-13: 2x4 HF No.2

BOT CHORD 2x6 DF SS

WEBS 2x4 DF Stud *Except* 4-17,10-14: 2x6 DF SS

REACTIONS. (size) 2=0-5-8, 12=0-5-8

Max Horz 2=239(LC 12) Max Uplift 2=-41(LC 12), 12=-37(LC 13)

Max Grav 2=2834(LC 23), 12=1488(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-17=-296/140, 3-4=-3534/325, 4-5=-755/96, 5-6=-1315/150, 6-7=-345/130, 2-3=-6014/618,

11-14=-1446/88, 11-12=-2930/95, 7-8=-420/137, 8-9=-1443/156

BOT CHORD 2-17=-338/5491, 16-17=-285/4842, 15-16=-43/1419, 14-15=-33/2075, 12-14=-25/2634

6-8=-1209/36, 5-16=-256/4196, 9-15=-36/2790, 3-16=-5271/577, 3-5=-3216/315, 9-11=-3609/143, WEBS

NOTES- (14)

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-12, Exterior(2E) 3-8-12 to 6-7-8, Exterior(2R) 6-7-8 to 12-1-8, Exterior(2E) 12-1-8 to 15-0-4, Interior(1) 15-0-4 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 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
- 4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design
- 6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- 9) Ceiling dead load (5.0 psf) on member(s). 6-8, 4-5, 5-6, 8-9, 9-10
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2295 lb down and 280 lb up at 3-8-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) Attic room checked for L/360 deflection.
- 14) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

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

Continued on page 2



Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals

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

April 5,2024



PRRRSF20234418 Truss Type Qty Grant 115077428 J11<mark>46908A</mark> **ATTIC**

The Truss Company (Sumner), Sumner, WA - 98390, Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:41 2024 Page 2
ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-z17nNipF0_Si6?cXBII7WO3CO_WSWJxx49wAjkzU5Qe

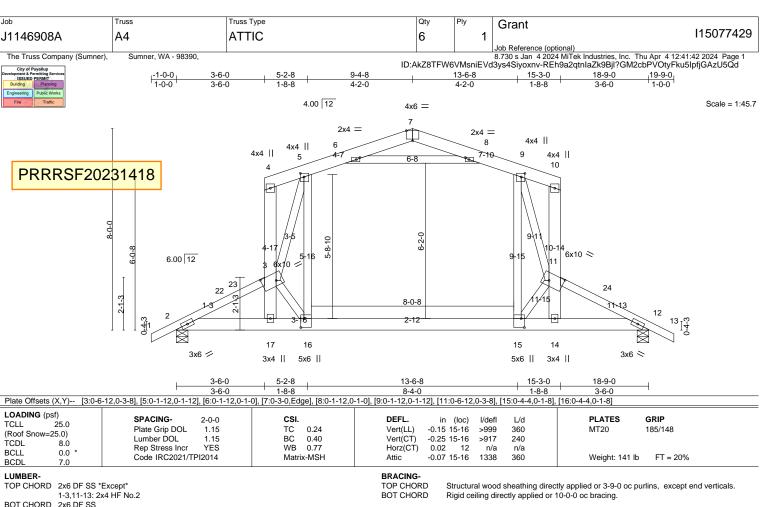
LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-16=-14, 15-16=-34, 12-15=-14, 6-8=-10, 4-6=-76, 6-7=-66, 1-3=-66, 11-13=-66, 7-8=-66, 8-10=-76 Concentrated Loads (lb)

Vert: 4=-1300(F)







WEBS 2x4 DF Stud *Except* 4-17,10-14: 2x6 DF SS

REACTIONS. (size) 2=0-5-8, 12=0-5-8 Max Horz 2=209(LC 12) Max Uplift 12=-4(LC 13)

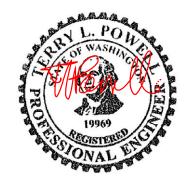
Max Grav 2=1124(LC 3), 12=1076(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-17=-594/4, 3-4=-353/65, 4-5=-260/57, 5-6=-812/84, 6-7=-415/148, 2-3=-2161/127, 11-14=-621/24,

10-11=-324/63, 11-12=-2050/0, 7-8=-415/136, 8-9=-812/73

2-17=-6/1928, 16-17=-62/1596, 15-16=0/770, 14-15=0/1494, 12-14=0/1830 6-8=-550/0, 5-16=0/1751, 9-15=0/1751, 3-16=-1281/111, 3-5=-1946/163, 9-11=-1946/0, 11-15=-1145/207 BOT CHORD WEBS

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-12, Exterior(2E) 3-8-12 to 6-7-8, Exterior(2R) 6-7-8 to 12-1-8, Exterior(2E) 12-1-8 to 15-0-4, Interior(1) 15-0-4 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 6-8, 4-5, 5-6, 8-9, 9-10
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 10) Attic room checked for L/360 deflection.
- 11) All dimensions given in feet-inches-sixteenths (FFIISS) format.



April 5,2024



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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TP11 Quality Criteria, DSB-89 and BCS11 Building Component

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Truss Truss Type Qty Grant 115077430 J1146908A Α5 **ATTIC** 10 1 Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:43 2024 Page ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-vQFXoOqVYbiQLJmvJjobbp8aFoDB_B8EXSPHoczU5Qc The Truss Company (Sumner), Sumner, WA - 98390 15-3-0 18-9-0 13-6-8 19-9-0 1-0-0 3-6-0 4.00 12 Scale = 1:45.74x6 = PRRRSF20231418 2x4 = 2x4 = 4x4 || 8 4x4 || 4x4 || 9 6-8 10 6x10 🗢 6.00 12 22 8-0-8 13 [4 15 3x6 / 3x6 > 3x4 || 5x6 || 5x6 || 3x4 || 13-6-8 3-6-0 5-2-8 15-3-0 18-9-0 3-6-0 1-8-8 1-8-8 8-4-0 3-6-0 Plate Offsets (X,Y)-- [3:0-6-12,0-3-8], [5:0-1-12,0-1-12], [6:0-1-12,0-1-0], [7:0-3-0, Edge], [8:0-1-12,0-1-0], [9:0-1-12,0-1-12], [11:0-6-12,0-3-8], [15:0-4-4,0-1-8], [16:0-4-4,0-1-8] LOADING (psf) SPACING-**PLATES** in (loc) TCLL 25.0 Plate Grip DOL 0.24 -0.15 1Š-16 185/148 TC Vert(LL) 360 MT20 (Roof Snow=25.0) Lumber DOL Rep Stress Incr 1.15 BC WB 0.40 0.77 Vert(CT) -0.25 15-16 0.02 12 >917 240 TCDL YES Horz(CT) n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-MSH -0.07 15-16 360 Weight: 141 lb FT = 20% 1338 BCDL LUMBER-BRACING-2x6 DF SS *Except TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals. 1-3,11-13: 2x4 HF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD 2x6 DF SS

WEBS 2x4 DF Stud *Except* 4-17,10-14: 2x6 DF SS

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

Max Horz 2=209(LC 12) Max Uplift 12=-4(LC 13)

Max Grav 2=1124(LC 3), 12=1076(LC 2)

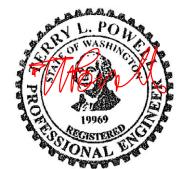
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-17=-594/4, 3-4=-353/65, 4-5=-260/57, 5-6=-812/84, 6-7=-415/148, 2-3=-2161/127, 11-14=-621/24,

10-11=-324/63, 11-12=-2050/0, 7-8=-415/136, 8-9=-812/73

BOT CHORD

2-17=-6/1928, 16-17=-62/1596, 15-16=0/770, 14-15=0/1494, 12-14=0/1830 6-8=-550/0, 5-16=0/1751, 9-15=0/1751, 3-16=-1281/111, 3-5=-1946/163, 9-11=-1946/0, 11-15=-1145/207 WEBS

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-12, Exterior(2E) 3-8-12 to 6-7-8, Exterior(2R) 6-7-8 to 12-1-8, Exterior(2E) 12-1-8 to 15-0-4, Interior(1) 15-0-4 to 16-9-0, Exterior(2E) 16-9-0 to 19-9-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 6-8, 4-5, 5-6, 8-9, 9-10
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 10) Attic room checked for L/360 deflection.
- 11) All dimensions given in feet-inches-sixteenths (FFIISS) format.



April 5,2024



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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TP11 Quality Criteria, DSB-89 and BCS11 Building Component

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Truss Truss Type Qty Grant 115077431 J1146908A A6 **ATTIC** 1 1 Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:44 2024 Page ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-Ncpv?kr7JvqGzTK5sQJq71gikCVrjgPOm68qK3zU5Qb The Truss Company (Sumner), Sumner, WA - 98390 15-3-0 18-9-0 19-9-0 13-6-8 3-6-0 PRRRSF20231418 4.00 12 Scale: 1/4"=1" 4x6 = 2x4 = 3x8 || 2x4 = Special 4x8 || Special 8 4x8 | 3x8 II 10 8-0-0 6.00 12 5x12 > 2-1-3 8-0-8 13 [4 пп ПП 29 22 25 26 27 28 30 15 3x10 =NAILED NAILED NAILED 3x10 = 4x4 || 4x10 || 4x10 || 4x4 || NAII FD NAILED NAILED NAILED NAILED

3-6-0 5-2-8 13-6-8 15-3-0 18-9-0 1-8-8 3-6-0 8-4-0 3-6-0 1-8-8 Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-9-0,0-2-8], [4:0-4-0,0-0-8], [5:0-4-0,0-1-8], [6:0-1-12,0-1-0], [7:0-3-0, Edge], [8:0-1-12,0-1-0], [9:0-4-0,0-1-8], [10:0-4-0,0-0-8], [11:0-9-0,0-2-8], [12:0-5-4,0-1-8], [15:0-5-0,0-1-8], [10:0-4-0,0-1-

1 Row at midpt

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.44 BC 0.69 WB 0.64	DEFL. in (loc) l/defl L/d Vert(LL) -0.29 15-16 >777 360 Vert(CT) -0.43 15-16 >523 240 Horz(CT) 0.04 12 n/a n/a	PLATES GRIP MT20 185/148
BCDL 7.0	Code IRC2021/TPI2014	Matrix-MSH	Attic -0.13 15-16 791 360	Weight: 139 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 DF SS *Except* 1-3,11-13: 2x4 HF No.2

BOT CHORD 2x6 DF SS WEBS 2x4 DF Stud *Except*

5-16.9-15: 2x4 HF No.2, 4-17.10-14: 2x6 DF SS

.0-1-12]. [16:0-5-0.0-1-12]

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

Max Horz 2=239(LC 43)

Max Uplift 2=-49(LC 10), 12=-125(LC 11) Max Grav 2=1689(LC 18), 12=1644(LC 1)

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

TOP CHORD $3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 11-14 = -958/107, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 11-14 = -958/107, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 11-14 = -958/107, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 11-14 = -958/107, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 11-14 = -958/107, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 3-17 = -944/1, \ 3-4 = -631/145, \ 4-5 = -425/100, \ 5-6 = -1245/88, \ 6-7 = -383/81, \ 2-3 = -3344/116, \ 3-4 = -631/145, \ 3-4 = -$

10-11=-549/30, 11-12=-3255/234, 7-8=-383/90, 8-9=-1245/82, 9-10=-419/39 2-17=-256/2993, 16-17=-274/2476, 15-16=-101/1224, 14-15=-120/2402, 12-14=-167/2922

BOT CHORD 6-8=-986/40, 5-16=-99/3021, 9-15=-126/3021, 3-16=-2018/263, 3-5=-3046/95, 9-11=-3044/254, **WEBS** 11-15=-1923/136

NOTES-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 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.
- 6) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 6-8, 4-5, 5-6, 8-9, 9-10
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=125.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 151 lb down and 52 lb up at 3-8-12, and 151 lb down and 52 lb up at 15-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Attic room checked for L/360 deflection.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
- 14) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

1) Dead + Snow (balanced); Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 2-16=-14, 15-16=-34, 12-15=-14, 6-8=-10, 4-6=-76, 6-7=-66, 1-3=-66, 11-13=-66, 7-8=-66, 8-10=-76

Concentrated Loads (lb)

Vert: 4=-102(B) 11=-102(B) 22=-9(B) 23=-165(B) 24=-165(B) 25=-165(B) 26=-165(B) 27=-165(B) 28=-165(B) 29=-165(B) 30=-9(B)



Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

April 5,2024

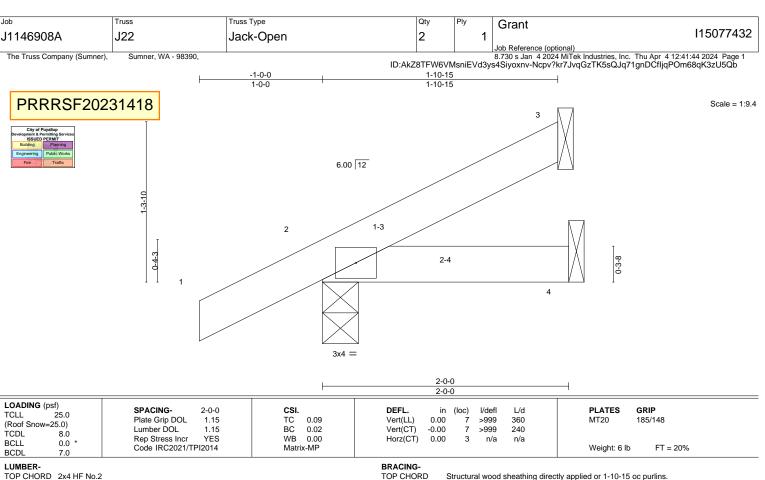


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**ANSI/TPI Quality Criteria, DSB-89 and BCS11 Building Component available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





REACTIONS.

TOP CHORD 2x4 HF No.2 BOT CHORD 2x4 HF No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=36(LC 12) Max Uplift 3=-13(LC 12), 2=-18(LC 12)

Max Grav 3=61(LC 19), 2=225(LC 19), 4=28(LC 5)

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

NOTES-

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 7-16; Pf=25.0 psf (Lum DOL=1.15) Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

BOT CHORD

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

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2. 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.



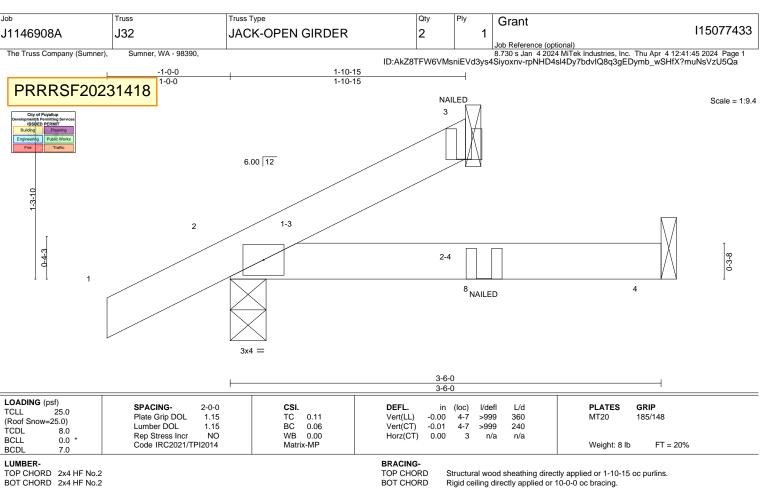
April 5,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE U.S.E.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





BOT CHORD 2x4 HF No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=36(LC 10)

Max Uplift 3=-16(LC 10), 2=-16(LC 10)

Max Grav 3=95(LC 17), 2=233(LC 17), 4=44(LC 5)

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

NOTES-

REACTIONS.

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

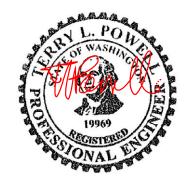
Rigid ceiling directly applied or 10-0-0 oc bracing.

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2. 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-66, 4-5=-14

Concentrated Loads (lb) Vert: 3=-33(F) 8=-6(F)



April 5,2024



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**ANSI/TPI Quality Criteria, DSB-89 and BCS11 Building Component available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Truss Truss Type Grant 115077434 J1146908A J33 JACK-CLOSED 1 Job Reference (optional)

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Apr 4 12:41:45 2024 Page ID:AkZ8TFW6VMsniEVd3ys4Siyoxnv-rpNHD4sl4Dy7bdvIQ8q3gEDxXbycSHfX?muNsVzU5Qa The Truss Company (Sumner), Sumner, WA - 98390 -1-0-0 PRRRSF20231418 Scale = 1:13.3 3x4 II 6.00 12 1-3 2 0-4-3 4 3x4 = 3x4 II 3-6-0 3-6-0 LOADING (psf) SPACING-DEFI. GRIP 2-0-0 CSL I/defl I/d PLATES TCLL Plate Grip DOL TC Vert(LL) -0.01 185/148 1.15 0.19 4-7 >999 360 MT20 (Roof Snow=25.0) Lumber DOL 1.15 -0.02 240 Vert(CT) TCDL 8.0 Rep Stress Incr YES Code IRC2021/TPI2014 YES WB 0.00 Matrix-MP Horz(CT) 0.00

BCDL LUMBER-

BCLL

TOP CHORD 2x4 HF No.2 BOT CHORD 2x4 HF No.2 WEBS

2x4 DF Stud REACTIONS.

(size) 4=Mechanical, 2=0-3-8 Max Horz 2=52(LC 11) Max Uplift 4=-17(LC 12), 2=-23(LC 12) Max Grav 4=179(LC 19), 2=311(LC 19)

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

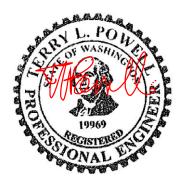
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BRACING-

TOP CHORD

BOT CHORD

- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- 7) Refer to girder(s) for truss to truss connections.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.



FT = 20%

Weight: 12 lb

Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.

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

April 5,2024



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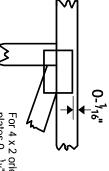


Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- ¾, from outside or 4 x 2 orientation, locate

connector plates required direction of slots in This symbol indicates the

ω

6

ы

* Plate location details available in MITek 20/20 software or upon request

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated. Indicated by symbol shown and/or

BEARING



number where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

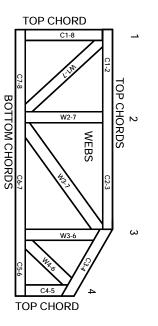
PRRRS 202 Standards: National Design Specification for Metal

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

BCS

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

9730, 95-43, 96-31, 9667A 95110, 84-32, 96-67, ER-3907, 9432A ESR-1311, ESR-1352, ER-5243, 9604B NER-487, NER-561

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General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1
- bracing should be considered wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator Truss bracing must be designed by an engineer. For
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- all other interested parties Provide copies of this truss design to the building designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.