



MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 211238 Triplex

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I49076687 thru I49076764

My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: Engineering 001193



December 3,2021

Garcia, Juan

,Engineer

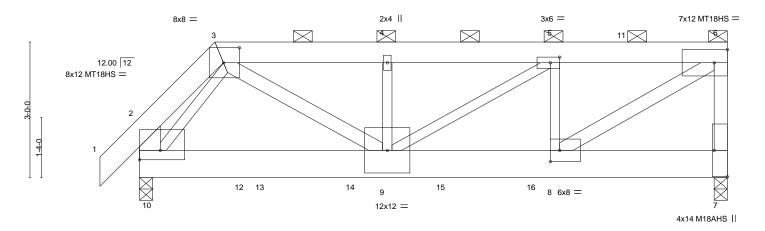
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty Ply Triplex 149076687 211238 Half Hip Girder A1 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:55 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-F444FvGphYPSToyhlLiuYF?gglEIOoeclJlZByyCytl -0-10-8 0-10-8 13-0-0 5-5-12 3-9-12 1-8-0 3-8-8 3-9-12

Scale = 1:25.5



	1-8-0	5-5-12	9-2-4	13-0-0	
	1-8-0	3-9-12	3-8-8	3-9-12	
Offsets (X,Y)	[2:Edge,0-2-8], [3:0-4-4,	0-4-0], [5:0-2-8,0-1-8], [7:Edge,0-3-8], [8:0-2	2-8,0-3-0]		_

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.75 BC 0.52 WB 0.92 Matrix-S	DEFL. in (loc Vert(LL) -0.08 9-10 Vert(CT) -0.13 9-10 Horz(CT) 0.01 0.04 Wind(LL) 0.04 9-10	, 0 >999 360 0 >999 240 7 n/a n/a	PLATES GRIP MT20 197/144 M18AHS 142/136 MT18HS 197/144 Weight: 177 lb FT = 10%
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6 SPF No 2

BOT CHORD 2x8 SP 2400F 2.0E 2x3 SPF No.2 *Except* WFBS

6-7,3-9,6-8: 2x4 SPF No.2, 2-10: 2x6 SP DSS

(size) 7=0-3-8 (req. 0-4-7), 10=0-3-8 (req. 0-3-10)

Max Horz 10=82(LC 34) Max Uplift 10=-501(LC 7)

Max Grav 7=7510(LC 3), 10=6144(LC 1)

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

TOP CHORD 2-3=-2962/302, 3-4=-8198/217, 4-5=-8198/217, 5-6=-6383/0, 6-7=-7334/0,

2-10=-2214/212

BOT CHORD 9-10=-191/3040, 8-9=0/6383

WEBS 3-9=-88/6241, 4-9=-156/284, 5-9=-725/2449, 5-8=-2872/186, 6-8=0/7491, 3-10=-2045/0

NOTES-

REACTIONS.

Plate Of

- 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 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) WARNING: Required bearing size at joint(s) 7, 10 greater than input bearing size.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 501 lb uplift at joint 10.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

OROKK.

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

except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 3-6.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFUKE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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December 3,2021

Job	Truss	Truss Type	Qty	Ply	Triplex	40070007
211238	A1	Half Hip Girder	1	_	1	49076687
		. ,			Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:55 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-F444FvGphYPSToyhlLiuYF?gglEIOoeclJlZByyCytl

NOTES-

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

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1769 lb down and 646 lb up at 2-3-4, 1753 lb down and 104 lb up at 2-8-12, 1840 lb down and 102 lb up at 4-8-12, and 1852 lb down and 77 lb up at 6-8-12, and 1762 lb down at 8-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

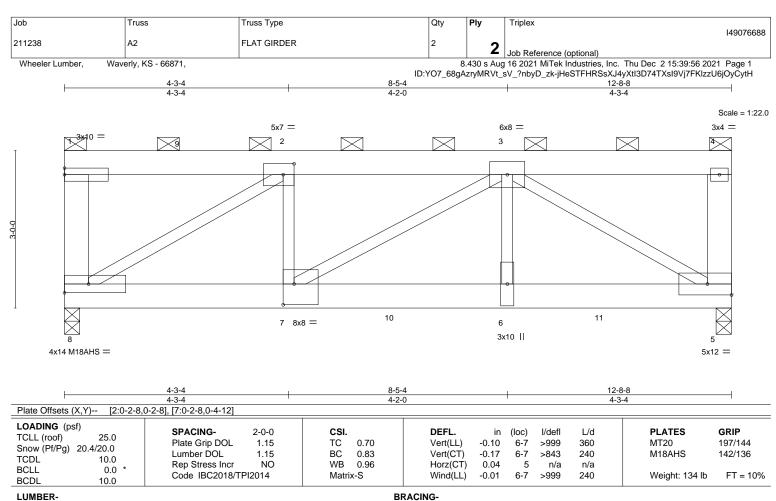
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 3-6=-61, 7-10=-20

Concentrated Loads (lb)

Vert: 6=-2274 11=-1643 12=-1769(F) 13=-1753(F) 14=-1779(F) 15=-1704(F) 16=-1386(F)



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SPF 1650F 1.4E 2x3 SPF No.2 *Except* WFBS

1-8,4-5: 2x6 SPF No.2

REACTIONS. (size) 8=0-3-8 (req. 0-5-11), 5=0-3-8 (req. 0-5-3)

Max Horz 8=68(LC 29)

Max Grav 8=7251(LC 3), 5=6588(LC 3)

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

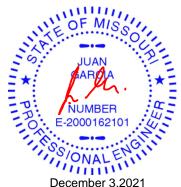
TOP CHORD 1-8=-3412/0, 1-2=-320/0, 2-3=-6325/0, 3-4=-339/0, 4-5=-312/0

7-8=0/6325, 6-7=0/6286, 5-6=0/6286 BOT CHORD

WFBS 2-8=-7094/0, 2-7=0/2540, 3-6=0/3865, 3-5=-7025/0

NOTES-

- 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. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Webs connected as follows: 2x3 - 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) WARNING: Required bearing size at joint(s) 8, 5 greater than input bearing size.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1753 lb down at 4-3-4, 1753 lb down at 6-3-4, 1753 lb down at 8-3-4, and 1753 lb down at 10-3-4, and 1778 lb down at 12-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



2-0-0 oc purlins (5-11-8 max.): 1-4, except end verticals.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Triplex
211238	A2	 FLAT GIRDER	2		149076688
211200	712	TEXT SINDER	_	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:56 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-jHeSTFHRSsXJ4yXtl3D74TXsl9Vj7FKlzzU6jOyCytH

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-61, 5-8=-20

Concentrated Loads (lb)

Vert: 1=-2279 5=-1530(B) 7=-1525(B) 6=-1525(B) 9=-1504 10=-1525(B) 11=-1525(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Triplex 149076689 211238 В1 GABLE COMMON 2 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:57 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-BTCqgbl3D9fAi563smkMdg450Zw1sngvCdEfGryCytG 8-8-0 14-0-0 20-0-0 5-3-9 5-4-0 6-0-0 Scale = 1:58.9 4x5 // 3x10 = 3x4 || Ø 12.00 12 3x10 3x4 // X 7 20 9 10 5x7 3x6 = 3x10 =8-8-0 14-0-0 20-0-0 8-8-0 5-4-0 6-0-0 LOADING (psf) CSI. **PLATES** GRIP SPACING-2-0-0 DEFL. in (loc) I/defI I/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.16 9-10 >999 360 MT20 197/144 20.4/20.0 1.15 -0.31 >755 240

Snow (Pf/Pg) Lumber DOL вс 0.57 Vert(CT) 9-10 TCDL 10.0 WB 0.57 Rep Stress Incr YES Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 7-8 Matrix-S Wind(LL) -0.03 >999 240 Weight: 143 lb FT = 10% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WFBS

2x3 SPF No.2 *Except* 6-7.5-9.5-7: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 10=0-3-8

Max Horz 10=283(LC 7) Max Uplift 7=-91(LC 7)

Max Grav 7=984(LC 3), 10=1000(LC 3)

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

TOP CHORD 3-4=-837/52, 4-5=-512/92, 2-10=-268/25 **BOT CHORD** 9-10=-196/665 8-9=-106/452 7-8=-106/452 WEBS 4-9=0/256, 5-8=0/313, 5-7=-859/96, 3-10=-814/10

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek

Structural wood sheathing directly applied or 5-9-6 oc purlins,

6-7 5-7

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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

1 Row at midnt

Job Truss Truss Type Qty Ply Triplex 149076690 211238 B2 Piggyback Base 12 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:58 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-ffmDtwJi_Tn1KFhGQUFbAudGszGEbEx2RHzDoHyCytF 8-8-0 5-3-9 14-4-0 20-0-0 5-8-0 5-8-0 Scale = 1:58.9 4x5 // 3x10 = 3x4 || 12.00 12 3x4 // 2x4 || 1-4-0 \aleph 11 12 9 8 10 5x7 = 3x6 = 3x10 =2x4 || 8-8-0 20-0-0 8-8-0 5-8-0 5-8-0 LOADING (psf) CSI. PLATES GRIP SPACING-2-0-0 DEFL. in (loc) I/defl L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.15 9-10 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 вс 0.57 Vert(CT) -0.31 9-10 >765 240 TCDL 10.0 WB 0.56 Rep Stress Incr YES Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 7-8 Matrix-S Wind(LL) -0.02 >999 240 Weight: 112 lb FT = 10% BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 6-7,5-9,5-7: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 10=0-3-8

Max Horz 10=283(LC 7) Max Uplift 7=-91(LC 7)

Max Grav 7=984(LC 3), 10=999(LC 3)

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

TOP CHORD 3-4=-837/52. 4-5=-512/92. 2-10=-267/25 BOT CHORD 9-10=-196/665, 8-9=-104/437, 7-8=-104/437 4-9=0/252, 5-8=0/313, 5-7=-870/96, 3-10=-814/9 WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 7.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-9-11 oc purlins,

6-7 5-7

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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

1 Row at midnt

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Job Truss Truss Type Qty Ply Triplex 149076691 211238 ВЗ Piggyback Base 6 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:39:59 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-7sKb5GKKlnvuxPGS_Bnqi59RbNcSKh7CgxjmKjyCytE 8-8-0 5-3-9 14-4-0 20-0-0 5-8-0 5-8-0 Scale = 1:58.9 4x5 // 3x10 =3x4 || 12.00 12 3x4 // X 2x4 || 1-4-0 X 10 11 7 8 5x7 = 3x6 = 2x4 || 3x10 =8-8-0 14-4-0 20-0-0 8-8-0 5-8-0 5-8-0 LOADING (psf) CSI. **PLATES** GRIP SPACING-2-0-0 DEFL. in (loc) I/defl L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.15 8-9 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 вс 0.57 Vert(CT) -0.31 8-9 >765 240 TCDL 10.0 WB 0.57 Rep Stress Incr YES Horz(CT) 0.02 6 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) -0.02 6-7 >999 240 Weight: 111 lb FT = 10% BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* WFBS 5-6,4-8,4-6: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 9=0-3-8 Max Horz 9=271(LC 7)

Max Uplift 6=-90(LC 7)

Max Grav 6=986(LC 3), 9=942(LC 3)

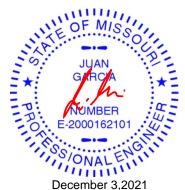
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-839/51. 3-4=-514/91

BOT CHORD 8-9=-195/672 7-8=-104/438 6-7=-104/438 WFBS 3-8=0/253, 4-7=0/313, 4-6=-872/95, 2-9=-817/30

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-10-2 oc purlins,

5-6 4-6

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

1 Row at midnt



Job Truss Truss Type Qty Ply Triplex 149076692 211238 В4 2 Common Supported Gable Job Reference (optional)

4x4 =

10-0-0

10-0-0

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:00 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-b2uzlcKyW41lZZreXul3FJigNm353EOLubSKsAyCytD 20-0-0 20-10-8 0-10-8

10-0-0

Scale = 1:71.4

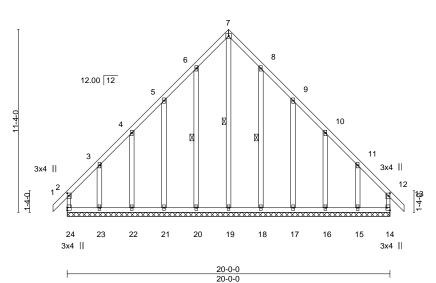


Plate Offsets (X,Y)-- [2:0-2-0,0-1-4], [12:0-2-0,0-1-4], [14:Edge,0-2-8]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.18 BC 0.10 WB 0.18	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	0 13	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-R					Weight: 125 lb	FT = 10%

LUMBER-TOP CHORD

2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x3 SPF No 2 WERS

OTHERS 2x4 SPF No.2

-0-10-8 0-10-8

WEBS

BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD 1 Row at midpt 7-19, 6-20, 8-18

REACTIONS. All bearings 20-0-0.

(lb) -Max Horz 24=229(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 21, 22, 18, 17, 16 except 24=-133(LC 6), 14=-118(LC 7),

23=-145(LC 10), 15=-141(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 20, 21, 22, 18, 17, 16, 15 except 19=358(LC 11), 23=250(LC 22)

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

TOP CHORD 6-7=-71/274, 7-8=-61/267

WEBS 7-19=-334/27

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 arip DOL=1.60
- 3) 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.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 21, 22, 18, 17, 16 except (jt=lb) 24=133, 14=118, 23=145, 15=141.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076693 211238 B4A Common Supported Gable Job Reference (optional)

10-0-0

10-0-0

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:01 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-4ESLWyLaGO9cBjQr5cpInWErAAO7oiaU7FCtPcyCytC 20-0-0 20-10-8 0-10-8 10-0-0

Scale = 1:71.4 3x4 =

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

6-19, 8-18

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

except end verticals.

1 Row at midpt

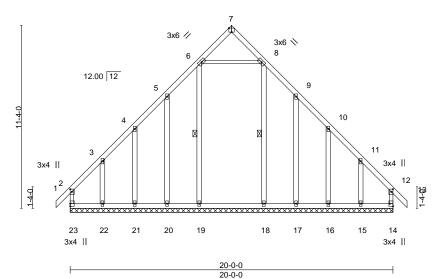


Plate Offsets (X,Y)-- [2:0-2-0,0-1-4], [7:0-2-0,Edge], [12:0-2-0,0-1-4], [14:Edge,0-2-8]

-0-10-8 0-10-8

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.18 BC 0.11	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 13 n/r 120 Vert(CT) -0.00 13 n/r 120	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.12 Matrix-S	Horz(CT) 0.00 14 n/a n/a	Weight: 116 lb FT = 10%
BCDL 10.0	Code 16C2016/1712014	Matrix-3		Weight. 116 b F1 = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x3 SPF No 2 WERS

OTHERS 2x4 SPF No.2

All bearings 20-0-0.

(lb) -Max Horz 23=229(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 17, 16 except 23=-141(LC 6), 14=-125(LC 7), 22=-132(LC

10), 15=-128(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 14, 20, 21, 17, 16 except 23=263(LC 23), 19=390(LC 25), 22=277(LC 22), 18=387(LC 24), 15=271(LC 23)

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

TOP CHORD 5-6=-92/253

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) 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.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 17, 16 except (jt=lb) 23=141, 14=125, 22=132, 15=128.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 13)







Job Truss Truss Type Qty Ply Triplex 149076694 211238 B5 10 Common Job Reference (optional)

10-0-0 6-7-12

Waverly, KS - 66871, Wheeler Lumber,

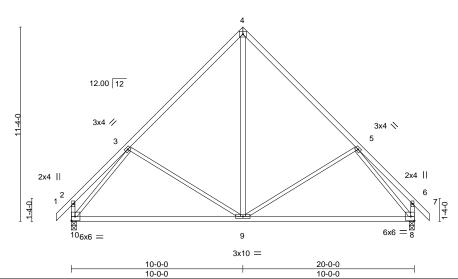
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:02 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-YQ0jjIMC1iHTot?1fJKXKknwvaZUX1OeMvxQx2yCytB 16-7-12 20-0-0 6-7-12

Scale = 1:67.2 4x5 =

Structural wood sheathing directly applied or 4-10-14 oc purlins,

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

except end verticals.



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.56 BC 0.81	Vert(CT) -	-0.20 9 -0.40 9	9-10	I/defl >999 >599	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.60 Matrix-S	- (- /	0.02 0.01	8 9	n/a >999	n/a 240	Weight: 93 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

2x3 SPF No.2 *Except* WFBS

4-9: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 8=0-3-8

Max Horz 10=-229(LC 8)

Max Grav 10=959(LC 2), 8=959(LC 2)

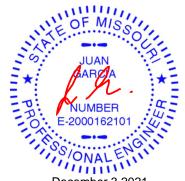
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-4=-785/107, 4-5=-785/107 TOP CHORD **BOT CHORD** 9-10=-97/645 8-9=0/580

WEBS 4-9=-12/488, 3-10=-865/68, 5-8=-865/68

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076695 211238 В6 3 Common Job Reference (optional)

10-0-0

6-7-12

Waverly, KS - 66871, Wheeler Lumber,

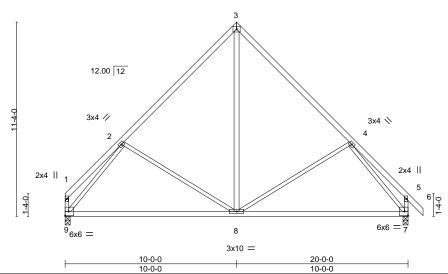
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:04 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-Up7U8_NSZJXB2A8PmkM?P9sFOOFx?xtxpDQX?xyCyt9 16-7-12 20-0-0 20-10₇8 3-4-4 0-10-8 6-7-12

Scale = 1:67.2 4x5 =

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

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

except end verticals.



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.56 BC 0.81 WB 0.60	- ' '	in -0.20 -0.40 0.02	(loc) 8-9 7-8	l/defl >999 >599 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL)	0.01	8	>999	240	Weight: 91 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

2x3 SPF No.2 *Except* WFBS

3-8: 2x4 SPF No.2

REACTIONS. (size) 9=0-3-8, 7=0-3-8

Max Horz 9=-223(LC 8)

Max Grav 9=889(LC 2), 7=961(LC 2)

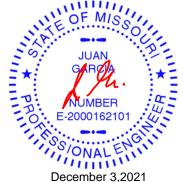
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-788/107, 3-4=-788/107 TOP CHORD **BOT CHORD** 8-9=-95/651, 7-8=0/581

WEBS 3-8=-11/489, 2-9=-861/84, 4-7=-867/68

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076696 211238 C1 Common Supported Gable Job Reference (optional)

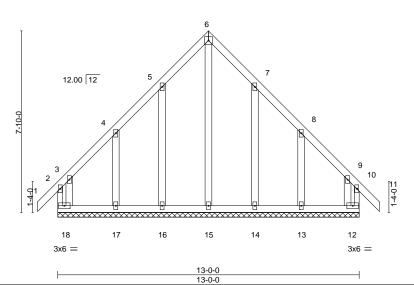
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:05 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-y?hsLKO5Kdf2fKjcKStEyMPXHnn?kUF42tA4YNyCyt8 13-0-0

6-6-0 6-6-0 6-6-0

4x4 =

Scale = 1:49.7



LOADING (psf) GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d PLATES TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) -0.00 11 n/r 120 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.05 Vert(CT) -0.01 11 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.21 Horz(CT) 0.00 12 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-R Weight: 71 lb FT = 10% BCDL 10.0

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No 2 WFBS 2x4 SPF No 2 OTHERS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins

except end verticals

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

REACTIONS. All bearings 13-0-0.

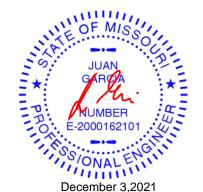
Max Horz 18=-165(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 18, 12, 16, 14 except 17=-121(LC 10), 13=-120(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) 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.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12, 16, 14 except (jt=lb) 17=121, 13=120.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076697 211238 C2 6 Roof Special Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:06 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-QCFEZgPj5wnvHUlou9PTUayYGB2cTmQDHWve4pyCyt7 13-0-0 13-10-8 0-10-8 6-6-0 6-6-0

Scale = 1:49.6

Structural wood sheathing directly applied or 3-11-15 oc purlins,

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

except end verticals.

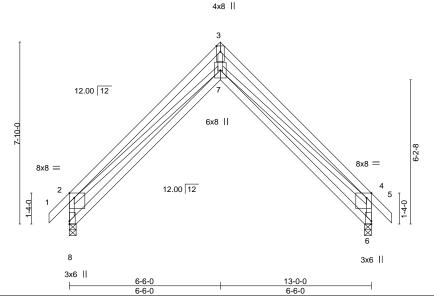


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [4:0-2-8,Edge], [8:0-1-7,Edge]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.73 BC 0.35	DEFL. in (loc) I/defl L/d Vert(LL) -0.24 7 >630 360 Vert(CT) -0.44 7 >346 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.92 Matrix-S	Horz(CT) 0.90 6 n/a n/a Wind(LL) 0.13 7 >999 240	Weight: 62 lb FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No 2

2x3 SPF No 2 WFBS

REACTIONS. (size) 8=0-3-8, 6=0-3-8

Max Horz 8=-168(LC 8)

Max Grav 8=644(LC 2), 6=644(LC 2)

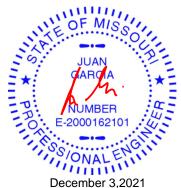
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-8=-823/148, 2-3=-2407/0, 3-4=-2461/0, 4-6=-787/74 TOP CHORD **BOT CHORD** 7-8=-255/522 6-7=-80/339

WEBS 3-7=0/2909. 4-7=-66/1913. 2-7=0/1701

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 7) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076698 СЗ 2 211238 Monopitch Supported Gable Job Reference (optional)

> 13-0-0 13-0-0

-0-10₋₈

3x6 =

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:07 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-uOpcm?QLsEvIvet_Stwi1nUq4bPICPTNVAfBcGyCyt6

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

9-10, 8-11, 7-12

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

except end verticals.

1 Row at midpt

Scale = 1:74.6

12.00 12 3x6 // 1-4-0 14 13 12

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

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.28 BC 0.29	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 n/r 120 Vert(CT) -0.00 1 n/r 120	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.16 Matrix-R	Horz(CT) -0.00 10 n/a n/a	Weight: 101 lb FT = 10%
BCDL 10.0	Code 1BC2016/1F12014	IVIALITX-IX		Weight. To his Fr = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD 2x4 SPF No 2 TOP CHORD

BOT CHORD 2x4 SPF No 2

2x6 SPF No.2 *Except* WFBS

9-10: 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 13-0-0. Max Horz 17=378(LC 10) (lb) -

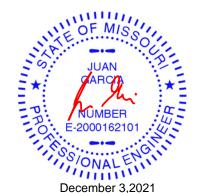
Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 12, 13, 14, 15 except 17=-332(LC 8), 16=-732(LC 10) Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 13, 14, 15 except 17=989(LC 10), 16=348(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-17=-655/207, 2-3=-729/270, 3-4=-442/171, 4-5=-369/143, 5-6=-286/115

WEBS 3-16=-180/397

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 12, 13, 14, 15 except (it=lb) 17=332, 16=732.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





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Job	Truss	Truss Type	Qty	Ply	Triplex
211238	C4	Monopitch	12	1	149076699
211236	04	Information	12	'	Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:07 2021 Page 1

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

4-5, 3-5

Rigid ceiling directly applied or 7-5-15 oc bracing.

except end verticals.

1 Row at midpt

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-uOpcm?QLsEvIvet_Stwi1nUIdbOZCCPNVAfBcGyCyt6 -0<u>-10-8</u> 0-10-8 6-4-4 12-8-8 6-4-4 6-4-4

Scale = 1:80.2

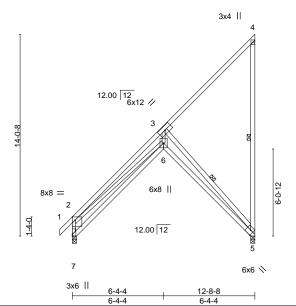


Plate Offsets (X.Y)	[2:0-2-8,Edge], [5:0-2-7,Edge], [7:0-1-7	7.Edgel

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0				٠,			_	
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.26	6	>569	360	MT20	197/144
	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.47	6	>320	240		
TCDL 10.0	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.97	5	n/a	n/a		
BCLL 0.0 *			. (- /	0			\\/a;abt. 77 lb	FT 400/
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.32	О	>470	240	Weight: 77 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8F

BOT CHORD 2x3 SPF No.2 *Except* WFBS

4-5,3-5: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8

Max Horz 7=370(LC 10) Max Uplift 5=-243(LC 10)

Max Grav 7=632(LC 2), 5=587(LC 22)

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

TOP CHORD 2-7=-768/288, 2-3=-2308/729 BOT CHORD 6-7=-627/468, 5-6=-1099/2302

WEBS 2-6=-429/1671, 3-6=-1374/3059, 3-5=-2497/1193

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076700 211238 D1 3 Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:09 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-rnxNBhRbOrAT8x1NZHyA6Ca17P_1gFYgzU8lh8yCyt4

11-4-8

Scale = 1:27.3

0-10-8

14-9-0 3-4-8

14-9-0

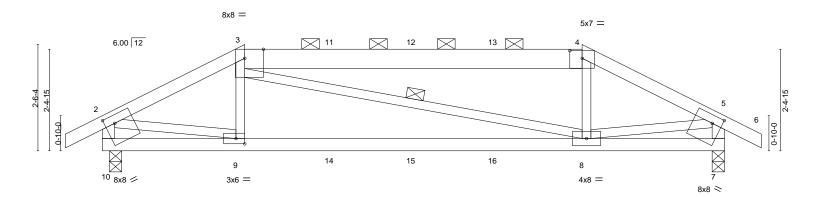
Structural wood sheathing directly applied or 4-7-1 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-10-0 max.): 3-4.

3-8

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

1 Row at midpt



0-2-0	3-2-8	8-0-0		'		3-4-8	<u> </u>
Plate Offsets (X,Y) [3:0-5-5	i,Edge], [4:0-3-8,0-2-3], [7:0-2-12,0-2-4],	[9:0-2-8,0-1-8], [10:0-2-12,0-2-4]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.88 BC 0.69 WB 0.44 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.28 Horz(CT) 0.02 Wind(LL) 0.03	(loc) I/defl 8-9 >999 8-9 >626 7 n/a 8-9 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 58 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

11-4-8

LUMBER-

-0-10-8 0-10-8

TOP CHORD 2x4 SPF No.2 *Except*

3-4: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

0,2,0

WEBS 2x3 SPF No.2 *Except*

2-10,5-7: 2x4 SPF No.2

REACTIONS. (size) 10

(size) 10=0-3-8, 7=0-3-8 Max Horz 10=-36(LC 10)

Max Uplift 10=-82(LC 12), 7=-83(LC 13) Max Grav 10=1001(LC 37), 7=1001(LC 37)

3-4-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1403/113, 3-4=-1301/121, 4-5=-1444/114, 2-10=-1002/74, 5-7=-1003/74

BOT CHORD 8-9=-99/1250

WEBS 3-9=0/270, 4-8=0/257, 2-9=-86/1245, 5-8=-90/1292

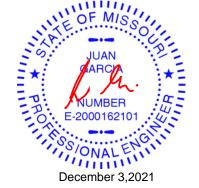
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 47 lb up at 3-3-15, 79 lb down and 47 lb up at 5-5-4, 79 lb down and 47 lb up at 7-4-8, and 79 lb down and 47 lb up at 9-3-12, and 79 lb down and 47 lb up at 11-4-8 on top chord, and 174 lb down and 42 lb up at 3-4-8, 22 lb down at 5-5-4, 22 lb down at 7-4-8, and 22 lb down at 9-3-12, and 174 lb down and 42 lb up at 11-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on Page in design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Triplex
211238	D1	Hip Girder	3	1	149076700
		'			Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:10 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-JzUIP1SD99IKm5cZ7?TPfQ6CtoKGPiopB8trDayCyt3

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
Vert: 1-2=-51, 2-3=-51, 3-4=-61, 4-5=-51, 5-6=-51, 7-10=-20

Concentrated Loads (lb)

Vert: 3=-52(B) 4=-52(B) 9=-174(B) 8=-174(B) 11=-48(B) 12=-48(B) 13=-48(B) 14=-16(B) 15=-16(B) 16=-16(B)

Job Truss Truss Type Qty Ply Triplex 149076701 211238 D2 3 Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:11 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-n927cNTrwTQBNFBmhi_eBdfRoClE8F_zQodPl1yCyt2

Scale = 1:27.3

0-10-8

14-9-0

5-4-8

Structural wood sheathing directly applied or 5-4-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

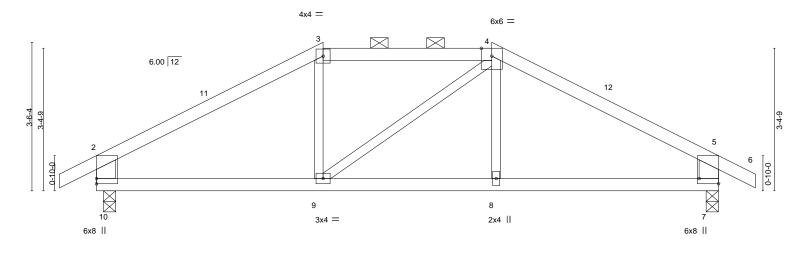


Plate Offsets (X,Y) [7:Edge,	,0-5-8]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.61 BC 0.38 WB 0.06	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.06 8-9 >999 360 MT20 197/14 Vert(CT) -0.12 8-9 >999 240 Horz(CT) 0.02 7 n/a n/a	14
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	(-,	= 10%

BRACING-TOP CHORD

BOT CHORD

4-0-0

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x3 SPF No.2 *Except* WFBS 2-10,5-7: 2x6 SPF No.2

REACTIONS.

-0-10-8 0-10-8

(size) 10=0-3-8, 7=0-3-8 Max Horz 10=-45(LC 10)

Max Uplift 10=-8(LC 12), 7=-8(LC 13) Max Grav 10=748(LC 37), 7=748(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-850/0, 3-4=-667/19, 4-5=-849/0, 2-10=-680/46, 5-7=-680/46

BOT CHORD 9-10=0/669, 8-9=0/667, 7-8=0/669

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076702 211238 D3 9 Common Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:12 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-FMcVpjUUhmY2?PmyEQVtkrCbwc4Nthj6fSMyHTyCyt1 -0-10-8 0-10-8 7-4-8 14-9-0 15-7-8 Scale = 1:29.7 4x8 = 3 6.00 12 10 7 8 2x4 || 6x8 II 6x8 II $0_1 \frac{2}{10}$ 0 - 2 - 07-4-8 7-2-8 7-2-8 Plate Offsets (X,Y)--[6:Edge,0-5-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.06 7-8 >999 360 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.12 7-8 >999 240 TCDL 10.0 WB 0.10 Rep Stress Incr YES Horz(CT) 0.01 6 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-R Wind(LL) -0.02 7-8 >999 240 Weight: 43 lb FT = 10% BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* WFBS 3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8

Max Horz 8=55(LC 11)

Max Uplift 8=-19(LC 12), 6=-19(LC 13) Max Grav 8=720(LC 2), 6=720(LC 2)

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

2-3=-788/30, 3-4=-788/30, 2-8=-655/67, 4-6=-655/67 TOP CHORD

BOT CHORD 7-8=0/592, 6-7=0/592

WEBS 3-7=0/303

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-8-9 oc purlins,

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

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076703 E1 211238 Roof Special Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:17 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-cJQOtQXcVJAL5Aev1z52RuvTRdfmYjHrok4jygyCysy -0-10-8 2-2-8 0-10-8 2-2-8 21-5-4 27-5-6 4-0-0

6-0-2

6-0-2

27-5-6

1 Row at midpt

6-0-2

15-5-2

Scale = 1:62.0

6-2-10

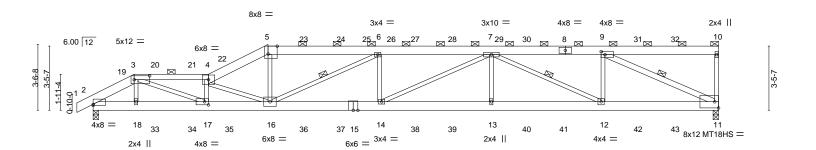
33-8-0

Structural wood sheathing directly applied or 3-6-8 oc purlins,

Rigid ceiling directly applied or 6-1-11 oc bracing.

except end verticals, and 2-0-0 oc purlins (3-0-5 max.): 3-4, 5-10.

6-16, 7-12, 9-11



2-2-8	4-0-0 3-2-8 6	6-0-2	6-0-2	6-0-2	ı	6-2-10	
Plate Offsets (X,Y) [2:0-0-0,	.0-0-11], [3:0-10-0,0-2-8], [5:0-5-14,Edge	e], [9:0-2-8,0-2-0], [17:0-2	2-8,0-2-0]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.60 BC 0.95 WB 0.97	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/de -0.38 13-14 >99 -0.64 13-14 >62 0.14 11 n.	9 360 9 240 /a n/a	PLATES MT20 MT18HS	GRIP 197/144 197/144
BCDI 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL)	0.34 13-14 >99	9 240	Weight: 163 lb	FT = 10%

21-5-4

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF No 2 *Except*

6-2-8

3-4: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2 *Except*

2-2-8

2-15: 2x6 SPF 1650F 1.4E **WEBS** 2x3 SPF No.2 *Except* 9-11: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=89(LC 9)

Max Uplift 11=-577(LC 9), 2=-367(LC 12) Max Grav 11=1760(LC 39), 2=1641(LC 39)

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

TOP CHORD 2-3=-2855/679, 3-4=-4981/1279, 4-5=-4115/1165, 5-6=-3769/1081, 6-7=-4768/1438,

9-5-0

7-9=-3002/945

BOT CHORD 2-18=-613/2318, 17-18=-616/2344, 16-17=-1358/5069, 14-16=-1468/4768,

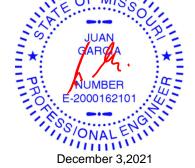
13-14=-1409/4495, 12-13=-1409/4495, 11-12=-952/3002

WEBS 3-18=-50/374, 3-17=-773/2828, 4-17=-1281/401, 4-16=-1483/307, 5-16=-351/1413, 6-16=-1121/410, 7-14=-72/351, 7-12=-1668/510, 9-12=-214/867, 9-11=-3317/1033

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=577, 2=367
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

COMPUPATION READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Triplex
					149076703
211238	E1	Roof Special Girder	1	1	
					Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:17 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-cJQOtQXcVJAL5Aev1z52RuvTRdfmYjHrok4jygyCysy

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 29 lb up at 2-2-8, 44 lb down and 28 lb up at 3-3-4, 44 lb down and 28 lb up at 5-3-4, 46 lb down and 33 lb up at 7-3-4, 56 lb down and 58 lb up at 9-5-0, 61 lb down and 58 lb up at 11-3-4, 61 lb down and 58 lb up at 13-3-4, 61 lb down and 58 lb up at 15-3-4, 61 lb down and 58 lb up at 17-3-4, 61 lb down and 58 lb up at 21-3-4, 61 lb down and 21-3-4, lb up at 23-3-4, 61 lb down and 58 lb up at 25-3-4, 61 lb down and 58 lb up at 27-3-4, 61 lb down and 58 lb up at 31-3-4, and 65 bb down and 61 lb up at 33-6-12 on top chord, and 66 lb down and 35 lb up at 2-2-8, 9 lb down and 31 lb up at 3-3-4, 9 lb down and 31 lb up at 5-3-4, 16 lb down and 13 lb up at 7-3-4, 20 lb down and 22 lb up at 11-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 25 lb up at 15-3-4, 20 lb down and 26 lb up at 15-3-4, 20 lb down and 27 lb up at 15-3-4, 20 lb down and 28 lb up at 15-3-4, 20 lb down and 29 lb up at 15-3-4, 20 lb down and 29 lb up at 15-3-4, 20 lb down and 35 lb up at 15-3-4, 20 lb down and 29 lb up at 15-3-4, 20 lb down and 29 lb up at 15-3-4, 20 lb down and 35 lb up at 15-3-4, 20 lb down and 36 lb up at 15-3-4, 20 lb down and 37 lb up at 15-3-4, 20 lb d 22 lb up at 17-3-4, 20 lb down and 22 lb up at 19-3-4, 20 lb down and 22 lb up at 21-3-4, 20 lb down and 22 lb up at 25-3-4, 20 lb down and 22 lb up at 27-3-4, 20 lb down and 22 lb up at 29-3-4, and 20 lb down and 22 lb up at 31-3-4, and 24 lb down and 22 lb up at 33-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-61, 4-5=-51, 5-10=-61, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-3(F) 10=-3(F) 11=-7(F) 18=-66(F) 16=-0(F) 14=-0(F) 14=-0(F) 12=-0(F) 22=-1(F) 33=0(F) 34=0(F) 35=-1(F) 36=-0(F) 37=-0(F) 38=-0(F) 39=-0(F) 40=-0(F) 41=-0(F) 42=-0(F) 43=-0(F)

Job Truss Truss Type Qty Ply Triplex 149076704 E2 Roof Special 211238 1 Job Reference (optional)

6-8-3

Waverly, KS - 66871, Wheeler Lumber,

4-2-8

1-10-8

4-0-0

4-5-0

13-5-0

-0-10-8 2-4-0 0-10-8 2-4-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:19 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-YiX9l6Zt1wQ2LUol9O7WWJ_k4RLd0e78G2Zq0ZyCysw 26-9-5 33-8-0

Structural wood sheathing directly applied or 2-7-15 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5, 7-11.

8-16, 8-13, 10-12

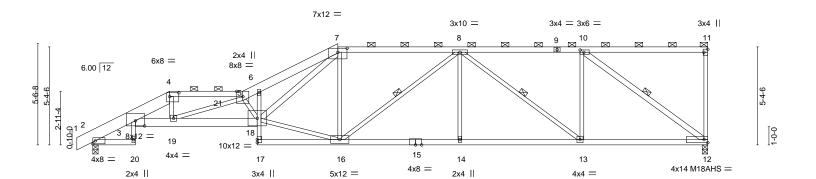
6-10-11

6-8-3

26-9-5

2-2-0 oc bracing: 17-18.

Scale = 1:63.1



4-2-8 1-10-8 6-8-3 2-4-0 4-9-8 4-5-0 6-8-3 6-10-11 Plate Offsets (X,Y)--[3:0-6-0,0-3-6], [4:0-6-0,0-2-8], [7:0-6-0,0-2-10], [10:0-2-8,0-1-8], [11:Edge,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.91 Vert(LL) -0.40 6 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.93 Vert(CT) -0.71 6 >564 240 M18AHS 142/136 TCDL 10.0 WB Rep Stress Incr YES 0.95 Horz(CT) 0.34 12 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.20 18 >999 240 Weight: 156 lb FT = 10% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

20-1-3

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

9-0-0

1-4: 2x8 SP DSS, 5-7: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

3-20,6-17: 2x3 SPF No.2, 3-18: 2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except*

WEBS 1 Row at midpt 7-18,10-12: 2x4 SPF No.2

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

Max Horz 2=149(LC 9)

Max Uplift 12=-60(LC 9), 2=-10(LC 12) Max Grav 12=1684(LC 39), 2=1577(LC 2)

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

2-3=-873/8, 3-4=-3730/0, 4-5=-3805/18, 5-6=-5371/0, 6-7=-5475/9, 7-8=-2425/17, TOP CHORD 8-10=-1856/71

3-19=-96/3782, 18-19=-75/5731, 6-18=-492/82, 16-17=-4/282, 14-16=-108/2625,

13-14=-108/2625, 12-13=-92/1856

WEBS 4-19=0/495, 5-19=-2081/0, 5-18=-1647/30, 16-18=-76/2217, 7-18=-63/3419,

7-16=-374/89, 8-16=-275/172, 8-14=0/261, 8-13=-965/21, 10-13=0/729, 10-12=-2294/76

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



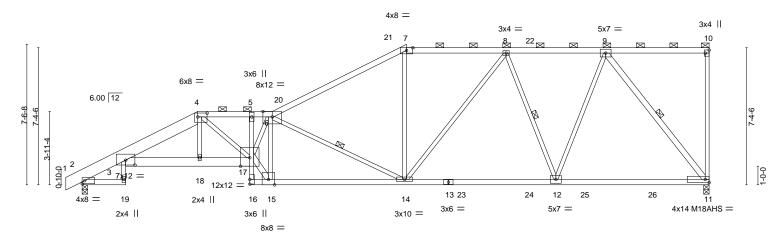


Job Truss Truss Type Qty Ply Triplex 149076705 E3 211238 Roof Special Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:21 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-U4fviob7ZXgmaoyhGpA_bk36dE04UXxRjM2x5SyCysu 2-4-0 2-4-0 17-5-0 28-1-5 6-2-8 9-0-0 33-8-0 2-9-8 3-10-8 7-2-8 5-4-3 5-6-11

Scale = 1:61.9



	2-4-0	3-10-8	2-9-8	1-2-8	7-2-8		8	-0-4		1	8-	-2-12	1
Plate Offsets ()	<,Y) [3:0	-6-0,0-3-2],	[4:0-6-0,0-2-8], [10:Edge,0-2-8	3]								
LOADING (pst	25.0		SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.72	2	DEFL. Vert(LL)	in -0.30	` '		L/d 360	PLATES MT20	GRIP 197/144

25-5-4

17-5-0

Snow (Pf/Pg) 20.4/20.0 Lumber DOL Vert(CT) 1.15 BC 0.93 -0.52 >764 240 M18AHS 142/136 TCDL 10.0 WB Rep Stress Incr YES 0.99 Horz(CT) 0.31 n/a 11 n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.15 >999 240 Weight: 165 lb FT = 10% 16 BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-2x4 SPF No.2 *Except* TOP CHORD

2-4-0

1-4: 2x8 SP 2400F 2.0E, 6-7: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

3-19,5-16: 2x3 SPF No.2, 3-17: 2x6 SP 2400F 2.0E

13-16: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

15-17,9-11: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=207(LC 9)

Max Uplift 11=-49(LC 9), 2=-32(LC 12) Max Grav 11=1694(LC 47), 2=1633(LC 3)

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

TOP CHORD 2-3=-965/0, 3-4=-3502/62, 4-5=-3918/62, 5-6=-3902/61, 6-7=-2228/17, 7-8=-1914/48, 8-9=-1461/22

10-2-8

BOT CHORD 3-18=-93/3307, 17-18=-89/3316, 5-17=-34/437, 15-16=-12/304, 14-15=-46/3126, 12-14=-85/1682, 11-12=-82/1090

4-17=-2/781, 15-17=-46/4044, 6-17=-55/2149, 6-15=-2777/125, 6-14=-1355/112, 7-14=0/639, 8-14=-42/491, 8-12=-719/64, 9-12=0/1088, 9-11=-1769/69

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFURE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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December 3,2021

OROFE

33-8-0

Structural wood sheathing directly applied or 3-8-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-2-0 oc bracing: 16-17,12-14.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (2-8-0 max.): 4-6, 7-10.

6-14, 8-12, 9-11

Job Truss Truss Type Qty Ply Triplex 149076706 211238 E4 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:22 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-yHDHw8blKrodCxXtqWhD8ycl1eMOD_1ay0nUduyCyst 16-9-12 21-5-0 27-5-4 33-8-0 12-2-8 5-10-8 3-2-8 6-0-4 Scale = 1:61.7 4x5 = 4x8 = 3x4 || 9 2122 8 \bowtie \bowtie 20 4x8 / 6x8 = 5x12 = 3x6 II 4 5 6.00 12 8-9-6 9-4-6 Ø 4-11-4 1-0-0 6x12 = Ø 14 24 23 25 26 18 16 15 13 12 11 4x8 = 4x4 = 2x4 || 2x4 || 5x12 = 4x8 = 2x4 || 9-0-0 12-2-8 21-5-0 27-5-4 33-8-0 2-4-0 6-8-0 9-2-8 6-2-12 6-0-4 Plate Offsets (X,Y)--[3:0-6-0,0-2-10], [4:0-6-0,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.68 Vert(LL) -0.42 13-15 >953 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.92 Vert(CT) -0.73 13-15 >550 240 TCDL 10.0 WB Rep Stress Incr YES 1.00 Horz(CT) 0.32 n/a 11 n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.16 3-17 >999 240 Weight: 187 lb FT = 10% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-18,5-16: 2x3 SPF No.2, 3-17: 2x6 SP 2400F 2.0E

11-14: 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except*

WEBS

10-11,9-13,9-11: 2x4 SPF No.2

(size) 11=0-3-8, 2=0-3-8 REACTIONS.

Max Horz 2=266(LC 11)

Max Uplift 11=-37(LC 9), 2=-46(LC 12)

Max Grav 11=1659(LC 3), 2=1668(LC 48)

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

2-3=-1015/0, 3-4=-3143/102, 4-5=-3022/116, 5-6=-2958/114, 6-7=-3124/121, 7-8=-1656/75, 8-9=-1432/85

BOT CHORD 3-17=-136/2916, 5-17=-7/593, 13-15=-54/1958, 12-13=-72/952, 11-12=-72/952 **WEBS**

4-17=-35/356, 15-17=-49/2881, 6-17=-91/389, 6-15=-1852/166, 7-15=-60/1436, 7-13=-1001/143, 8-13=0/448, 9-13=-43/888, 9-12=0/334, 9-11=-1693/33

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-0-6 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (2-8-13 max.): 4-6, 8-10.

10-11, 7-13, 9-11

December 3,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076707 211238 E5 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:26 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-r2SomVeGO3J3hZqe3Mm9lonvDFoB9pkAtelimfyCysp 10-2-8 25-5-0 32-3-0 6-10-0 14-2-8 19-9-12 5-2-8 5-0-0 4-0-0 5-7-4 Scale = 1:73.9 3x4 || 6x8 =6x8 =9 ,23 4x8 / 22 6 21 6x6 = 8x8 = 6.00 12 11-4-13 20 18 24 25 13 26 27 16 15 14 12 11 2810 4x8 = 5x7 = 8x8 = 6x6 = 3x10 = 6x8 = 3x10 = 10-2-8 19-9-12 25-5-0 33-8-0 5-2-8 5-2-8 5-0-0 9-7-4 8-3-0 Plate Offsets (X,Y)--[4:0-3-8,0-4-0], [8:0-4-10,Edge], [12:0-2-8,0-2-8], [15:0-2-8,0-3-0], [16:0-3-8,0-5-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 ТС 0.98 Vert(LL) -0.31 12-14 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.68 Vert(CT) -0.57 12-14 >696 240 TCDL 10.0 WB Rep Stress Incr YES 0.96 Horz(CT) 0.08 10 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.09 12-14 >999 240 Weight: 198 lb FT = 10% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x6 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and 7-8.8-9: 2x4 SPF No.2 2-0-0 oc purlins (2-2-0 max.): 4-5, 7-8. **BOT CHORD** BOT CHORD 2x4 SPF 2100F 1.8E Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SPF No.2 *Except* WEBS 1 Row at midpt 5-12, 6-11, 7-11, 9-10 3-15,3-14,4-14,5-14,5-12,6-12: 2x3 SPF No.2, 2-16: 2x6 SPF No.2 2 Rows at 1/3 pts 8-10 REACTIONS. (size) 16=0-3-8, 10=0-3-8

Max Horz 16=323(LC 11)

Max Uplift 16=-56(LC 12), 10=-18(LC 12) Max Grav 16=2596(LC 2), 10=1897(LC 3)

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

TOP CHORD 2-3=-4397/88, 3-4=-3927/88, 4-5=-3157/100, 5-6=-2295/83, 6-7=-1291/100,

7-8=-1094/113, 2-16=-2511/87

BOT CHORD 15-16=-220/761, 14-15=-180/3873, 12-14=-114/3157, 11-12=-46/2021 **WEBS**

3-15=-316/51, 3-14=-847/89, 4-14=0/764, 5-14=-391/277, 5-12=-1673/120, 6-12=0/1441, 6-11=-1653/131, 7-11=-5/290, 8-11=-61/1727, 8-10=-1760/158, 2-15=-26/3176

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down and 38 lb up at 6-5-4, and 700 lb down and 38 lb up at 8-5-4 on top chord. The design/selection of such connection device(s) is the responsibility





LOAD CASE(S) verified sign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	Triplex
211220	E E	Roof Special	1	1	149076707
211238	E5	Roof Special	'	'	Job Reference (optional)

Wheeler Lumber,

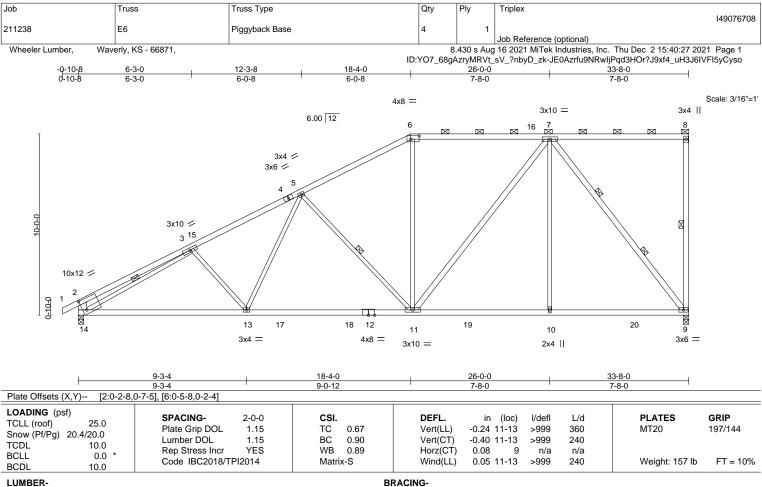
Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:26 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-r2SomVeGO3J3hZqe3Mm9lonvDFoB9pkAtelimfyCysp

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
Vert: 1-2=-51, 2-4=-51, 4-5=-61, 5-7=-51, 7-8=-61, 8-9=-51, 10-16=-20 Concentrated Loads (lb) Vert: 19=-563 20=-563





TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-8: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 *Except*

12-14: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

8-9,7-11,7-9: 2x4 SPF No.2, 2-14: 2x6 SPF No.2

REACTIONS. (size) 9=0-3-8, 14=0-3-8 Max Horz 14=290(LC 9)

Max Uplift 9=-65(LC 9), 14=-29(LC 12)

Max Grav 9=1671(LC 35), 14=1671(LC 3)

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

2-3=-756/86, 3-5=-2435/54, 5-6=-1685/64, 6-7=-1435/82, 8-9=-263/59, 2-14=-585/93 TOP CHORD

BOT CHORD 13-14=-122/2196, 11-13=-106/1899, 10-11=-98/1068, 9-10=-98/1068

WEBS $5-13=0/524,\ 5-11=-796/135,\ 6-11=0/381,\ 7-11=-51/687,\ 7-10=0/462,\ 7-9=-1724/68,$ 3-14=-1869/0

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 arip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 14.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

8-9, 5-11, 3-14

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.

7-9

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

1 Row at midpt

2 Rows at 1/3 pts

MiTek

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Job Truss Truss Type Qty Ply Triplex 149076709 211238 E7 Piggyback Base 6 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:28 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-nRaYABgWvhZnws_1AnodNDsGf3RndnHTKyEorYyCysn 9-0-0 6-8-0 13-8-0 18-4-0 26-0-0 33-8-0 4-8-0 4-8-0 7-8-0 7-8-0 Scale = 1:66.7 4x8 = 2x4 || 4x8 = 6 6.00 12 18 4x8 / 6x8 / 2 14 7x12 = Ø 11 19 20 =4x8 15 13 10 4x4 = 3x4 = 2x4 || 4x8 || 6x8 = 4x10 =2-4-0 9-0-0 18-4-0 33-8-0 2-4-0 6-8-0 9-4-0 7-8-0 7-8-0 Plate Offsets (X,Y)--[3:0-5-8,0-3-10], [6:0-5-8,0-2-4], [9:Edge,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.35 12-13 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.80 Vert(CT) -0.71 12-13 >564 240 TCDL 10.0 WB Rep Stress Incr YES 0.70 Horz(CT) 0.34 n/a n/a **BCLL** 0.0

Matrix-S

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.17

1 Row at midpt

3-14

>999

240

Structural wood sheathing directly applied or 2-11-0 oc purlins,

8-9, 5-12, 6-10, 7-10

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.

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

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 *Except*

6-8: 2x4 SPF 2100F 1.8E, 1-4: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-15,4-13: 2x3 SPF No.2, 3-14: 2x6 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*

10.0

8-9,6-10,8-10: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 2=0-3-8

Max Horz 2=286(LC 9)

Max Uplift 9=-65(LC 9), 2=-28(LC 12)

Max Grav 9=1652(LC 35), 2=1636(LC 3)

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

TOP CHORD 2-3=-1017/0, 3-4=-3096/59, 4-5=-3198/153, 5-6=-1642/67, 6-7=-1033/51, 7-8=-1033/51,

Code IBC2018/TPI2014

8-9=-1495/96

BOT CHORD 3-14=-134/2837, 4-14=-799/160, 10-12=-96/1413

WEBS 12-14=-146/1711, 5-14=-109/1513, 5-12=-977/153, 6-12=-10/946, 6-10=-701/47,

7-10=-784/160, 8-10=-68/1665

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 190 lb

FT = 10%

December 3,2021

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Job Truss Truss Type Qty Ply Triplex 149076710 211238 G1 12 Common Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:29 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-Fd8xOXh8g_heY0ZDkUJswQPTWTmNM9QcZc_MN_yCysm 6-11-14 13-4-15 19-10-0 24-8-0 6-11-14 4-10-0 6-5-1 6-5-1 Scale = 1:58.3 5x7 = 6.00 12 5 3x4 || 4x4 / 4x4 / 2x4 \\ 2 **₩** 10 9 12 13 8 15 3x4 = 4x5 = 4x4 = 4x4 = 16-0-9 24-8-0 8-1-12 7-10-13 8-7-7 Plate Offsets (X,Y)-- [1:0-1-11,Edge], [3:0-2-0,Edge]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.79 BC 0.84 WB 0.96	Vert(LL) -0.23 Vert(CT) -0.37 Horz(CT) 0.04	(loc) I/defl 7-8 >999 7-8 >779 7 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.06 1	1-10 >999	240	Weight: 105 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

7-9: 2x4 SPF 2100F 1.8E **WEBS** 2x3 SPF No.2 *Except*

5-8,5-7: 2x4 SPF No.2

REACTIONS. (size) 1=0-5-8, 7=0-3-8 Max Horz 1=243(LC 9)

Max Uplift 1=-24(LC 12), 7=-32(LC 12)

Max Grav 1=1164(LC 3), 7=1214(LC 3)

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

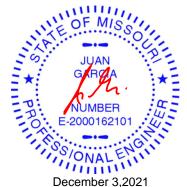
1-2=-1990/59, 2-4=-1878/115, 4-5=-1045/113 TOP CHORD

BOT CHORD 1-10=-130/1738, 8-10=-45/1129, 7-8=-42/479

WEBS 2-10=-424/150, 4-10=-57/807, 4-8=-742/172, 5-8=-61/1128, 5-7=-1050/36

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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

6-7, 5-7

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

except end verticals.

1 Row at midpt



Job Truss Truss Type Qty Ply Triplex 149076711 211238 G2 9 Common Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:30 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-jpiJbtimRlpV9A8PICq5TexbSs5l5cgmoFjvvQyCysl <u>6-11-14</u> 13-4-15 19-10-0 32-8-2 38-8-0 39-6-8 0-10-8 26-3-1 6-5-1 6-11-14 6-5-1 6-5-1 5-11-14 Scale = 1:70.6 5x7 = 6.00 12 5 4x4 / 3x6 <> 19 3x6 / 3x6 > 6 7 3 10-3-0 2x4 \\ 2x4 // 8 2 10 ₩ 12 17 21 15 22 23 14 25 20 16 13 4x5 =11 3x6 = 4x5 = 4x4 = 3x4 = 4x5 = 3x10 || 3x6 = 16-0-9 23-7-7 31-8-0 38-8-0 8-1-12 7-10-13 7-6-14 8-0-9 7-0-0 Plate Offsets (X,Y)--[1:0-1-7,Edge], [11:0-5-9,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.97 Vert(LL) -0.18 15-17 >999 360 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.33 1-17 >999 240

WB

Matrix-S

0.96

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

0.07

0.07

1 Row at midpt

12

1-17

n/a

Rigid ceiling directly applied or 2-2-0 oc bracing.

>999

n/a

240

Structural wood sheathing directly applied, except end verticals.

5-14 6-12

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

10.0

10.0

0.0

11-13: 2x4 SPF 2100F 1.8E **WEBS** 2x3 SPF No.2 *Except*

5-15,5-14,6-12: 2x4 SPF No.2, 9-11: 2x6 SPF No.2

Rep Stress Incr

Code IBC2018/TPI2014

REACTIONS.

(size) 1=0-5-8, 12=0-3-8 Max Horz 1=118(LC 12)

Max Uplift 1=-33(LC 12), 12=-31(LC 13) Max Grav 1=1425(LC 3), 12=2342(LC 3)

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

TOP CHORD 1-2=-2559/78, 2-4=-2446/133, 4-5=-1604/135, 5-6=-1102/112, 6-8=0/769, 8-9=-40/627 BOT CHORD $1-17 = -123/2254, \ 15-17 = -42/1643, \ 14-15 = 0/1016, \ 12-14 = 0/727, \ 11-12 = -451/65$ WEBS 2-17=-415/150, 4-17=-53/817, 4-15=-742/169, 5-15=-70/1059, 5-14=-288/45,

6-14=0/572, 6-12=-2061/0, 8-12=-463/141

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 arip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

YES

- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Weight: 152 lb

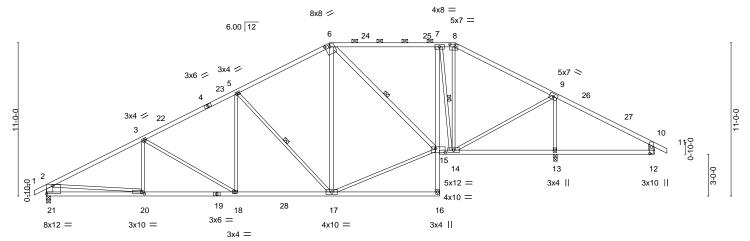
FT = 10%

MiTek

Job Truss Truss Type Qty Ply Triplex 149076712 Н1 3 211238 Piggyback Base Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:32 2021 Page 1

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-fCq30Zj0zv3CPUHoPdsZY31y7gp2ZXW2FZC0_JyCysj 20-4-0 28-2-11 7-10-11 36-4-12 43-8-0 6-8-8 6-8-8 7-0-12

Scale = 1:82.7



13-7-8 29-4-0 1-1-5 36-6-7 43-8-0 6-11-0 6-8-8 6-8-8 7-10-11 7-0-0 Plate Offsets (X,Y)--[6:0-4-0,0-1-15], [8:0-4-8,0-2-4], [12:0-5-9,0-1-8], [15:0-8-4,0-3-8], [20:0-2-8,0-1-8], [21:Edge,0-6-13]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.96 BC 0.77 WB 0.94	DEFL. in (loc) l/defl Vert(LL) -0.18 17-18 >999 Vert(CT) -0.32 16-17 >999 Horz(CT) 0.07 13 n/e	360 240		GRIP 97/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.07 18 >999	240	Weight: 200 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD

8-11: 2x4 SPF 2100F 1.8E **BOT CHORD**

10.0

2x4 SPF No.2 *Except* 12-15: 2x4 SPF 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*

6-17,6-15: 2x4 SPF No.2, 2-21,10-12: 2x6 SPF No.2

REACTIONS. (size) 21=0-3-8, 13=0-3-2

Max Horz 21=165(LC 12) Max Uplift 21=-39(LC 12)

Max Grav 21=1703(LC 54), 13=2477(LC 3)

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

2-3=-2660/52, 3-5=-2217/75, 5-6=-1579/88, 6-7=-1238/64, 7-8=-1055/58, 8-9=-1261/53, TOP CHORD

9-10=-50/709, 2-21=-1585/76 20-21=-224/612, 18-20=-142/2296, 17-18=-66/1909, 7-15=-20/759, 14-15=0/1196,

13-14=-505/78, 12-13=-505/78 3-18=-459/88, 5-18=0/505, 5-17=-936/132, 6-17=-7/488, 15-17=0/1378, 6-15=-250/79, **WEBS**

7-14=-1175/127, 8-14=-57/586, 9-14=0/1746, 9-13=-2191/58, 2-20=0/1746

BOT CHORD

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-0-2 oc purlins,

5-17, 6-15, 7-14

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-8.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14,12-13.

1 Row at midpt

December 3,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076713 211238 H2 Piggyback Base 2 1 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:38 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-UMBKHconZlpM7PlymtzznJHz75rEzDKxdVfKBzyCysd -0-10-8 2-4-0 0-10-8 2-4-0 7-4-0 12-4-0 20-4-0 24-10-0 29-4-0 30-7-12 1-3-12 36-8-0 5-0-0 5-0-0 8-0-0 4-6-0 4-6-0 6-0-4 Scale = 1:75.2 5x7 🖊 8x8 = 2x4 | 3x4 = 6.00 12 6 22 7 8 9 8x12 MT18HS < 6x6 = 10 4x5 🖊 11-0-0 20 11 8x12 = 3x8 MT20 18 8x12 25 4x8 = 2x4 || 19 16 15 14 13 4x10 = 2x4 II 3x6 II 2x4 II 8x8 =

	2-4-0	7-4-0	12-4-0	20-4-0	29-4-0	30-7-12	36-8-0	- 1
	2-4-0	5-0-0	5-0-0	8-0-0	9-0-0	1-3-12	6-0-4	\neg
Plate Offsets (X,Y)	[6:0-3	-8,0-2-3], [8:0-6-0,0	-2-8], [10:0-2-8,Edg	ge], [11:0-3-8,Edge]				

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.92 BC 0.85 WB 0.98	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 14-15 -0.52 15-16 0.37 11	l/defl >999 >833 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS MT10HS	GRIP 197/144 148/108 197/144
BCDI 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL)	0.15 5	>999	240	Weight: 239 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-TOP CHORD 2x4 SPF No 2 *Except*

5-6: 2x4 SPF 2100F 1.8E, 1-5: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-17: 2x6 SP 2400F 2.0E, 5-16,9-13: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

6-17,6-15,7-15,7-14,8-14: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-2

Max Horz 2=206(LC 9)

Max Uplift 2=-31(LC 12)

Max Grav 2=1770(LC 3), 11=1739(LC 3)

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

TOP CHORD $2 - 3 = -1029/0, \ 3 - 4 = -3819/90, \ 4 - 5 = -2959/96, \ 5 - 6 = -2981/223, \ 6 - 7 = -1498/93, \ 7 - 8 = -994/57, \ 7 - 8$

8-9=-1446/58, 9-10=-1483/27, 10-11=-1629/0

BOT CHORD 3-18=-204/3601, 17-18=-201/3599, 5-17=-620/188, 14-15=-18/1299, 9-12=-500/162 **WEBS** 4-17=-1197/96, 15-17=-27/1317, 6-17=-216/1734, 6-15=-509/150, 7-15=-43/639, 7-14=-853/54, 8-14=-1069/40, 12-14=0/2423, 8-12=-78/1584, 10-12=0/1497

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ONAL minin December 3,2021

HO

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

except end verticals, and 2-0-0 oc purlins (4-7-13 max.): 6-8.

6-15, 7-14, 8-14

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14,12-13.

1 Row at midpt

Job Truss Truss Type Qty Ply Triplex 149076714 211238 НЗ Piggyback Base 8 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:40 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-QkJ5ilp25N44MivKtl0RtkMLsuXDR7uE5p8RGryCysb -0-10-8 2-4-0 0-10-8 2-4-0 12-4-0 20-4-0 24-10-Ó 29-4-0 36-4-14 5-0-0 5-0-0 8-0-0 4-6-0 4-6-0 7-0-14 Scale = 1:73.2 5x7 🖊 5x7 ≥ 3x4 = 6.00 12 6 20 7 21 8 8x12 MT18HS < 5x7 ≥ 9 4x5 / 19-16 8x12 = 12 23 24 4x8 = 2x4 | 11 14 13 10 4x10 = 3x6 =2x4 || 3x6 || 6x8 = 3x4 = 2-4-0 29-4-0 2-4-0 5-0-0 5-0-0 8-0-0 9-0-0 7-0-14 Plate Offsets (X,Y)--[6:0-3-8,0-2-3], [8:0-3-8,0-2-3], [9:Edge,0-1-12], [10:Edge,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP 25.0

BCDL LUMBER-

TCLL (roof)

TCDL

BCLL

Snow (Pf/Pg) 20.4/20.0

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

6-8: 2x4 SPF No.2, 1-5: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-15: 2x6 SP 2400F 2.0E, 5-14: 2x3 SPF No.2

Plate Grip DOL

Rep Stress Incr

Code IBC2018/TPI2014

Lumber DOL

1.15

1.15

YES

TC

BC

WB

Matrix-S

0.78

0.82

0.98

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.29 11-13

-0.49 13-14

1 Row at midpt

10

5 >999

0.30

0.14

>999

>892

n/a

360

240

n/a

240

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

6-13, 7-11, 8-11, 9-10

except end verticals, and 2-0-0 oc purlins (4-8-3 max.): 6-8.

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

MT20

MT18HS

Weight: 229 lb

197/144

197/144

FT = 10%

WEBS 2x4 SPF No.2 *Except*

4-16,4-15,13-15,9-11: 2x3 SPF No.2

10.0

10.0

0.0

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=244(LC 11)

Max Uplift 2=-33(LC 12)

Max Grav 2=1758(LC 3), 10=1773(LC 3)

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

TOP CHORD 2-3=-1061/0, 3-4=-3787/80, 4-5=-2929/91, 5-6=-2951/219, 6-7=-1476/97, 7-8=-966/63,

8-9=-1165/59, 9-10=-1641/0

BOT CHORD 3-16=-149/3570, 15-16=-146/3568, 5-15=-619/189, 11-13=-53/1268

WEBS 4-15=-1192/83, 13-15=-62/1298, 6-15=-205/1726, 6-13=-528/143, 7-13=-42/664,

7-11=-863/58, 8-11=-78/250, 9-11=0/1350

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



December 3,2021

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076715 211238 Н4 Piggyback Base 2 1 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:42 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-N7Qr6zrlc_Kob02j?j2vy9Ri7iBBv3VXY7dYKkyCysZ -0-10₇8 0-10-8 13-7-8 20-4-0 24-10-0 29-4-0 36-4-14 6-11-0 6-8-8 6-8-8 4-6-0 4-6-0 7-0-14 Scale = 1:70.0 5x7 = 5x7 ≥ 3x4 =6.00 12 6 ⊠_19 20 \boxtimes M 5x7 ≥ 3x4 / 3x6 / 3x4 🖊 ⊠ 17 22 14 21 12 23 24 10 16 15 13 11 8x12 = 3x6 =3x6 = 3x4 =4x8 = 3x4 = 3x10 =6x8 = 13-7-8 20-4-0 6-11-0 6-8-8 6-8-8 9-0-0 7-0-14 Plate Offsets (X,Y)--[6:0-5-0,0-2-8], [8:0-3-8,0-2-3], [9:Edge,0-1-12], [10:Edge,0-1-8], [16:0-2-8,0-2-0], [17:Edge,0-6-13] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 ТС 0.73 Vert(LL) -0.25 11-13 >999 360 MT20 197/144 Snow (Pf/Pg) 20.4/20.0

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 *Except* 8-9: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

10.0

10.0

0.0

6-13,7-13,7-11,8-11,9-10: 2x4 SPF No.2, 2-17: 2x6 SPF No.2

Lumber DOL

Rep Stress Incr

Code IBC2018/TPI2014

1.15

YES

BC

WB

Matrix-S

0.91

0.84

BRACING-TOP CHORD

Vert(CT)

Horz(CT)

Wind(LL)

Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-3 max.): 6-8. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

>999

>999

n/a

240

n/a

240

2-2-0 oc bracing: 13-15.

-0.41 11-13

0.07 15-16

0.07

WEBS 1 Row at midpt 5-13, 7-11, 8-11, 9-10

10

REACTIONS. (size) 17=0-3-8, 10=Mechanical

Max Horz 17=249(LC 11) Max Uplift 17=-34(LC 12)

Max Grav 17=1788(LC 3), 10=1790(LC 3)

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

TOP CHORD 2-3=-2819/43, 3-5=-2388/66, 5-6=-1762/78, 6-7=-1495/97, 7-8=-977/63, 8-9=-1178/58,

9-10=-1659/0, 2-17=-1670/71

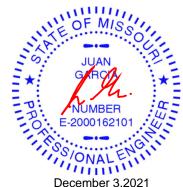
BOT CHORD 16-17=-220/630, 15-16=-106/2437, 13-15=-40/2064, 11-13=-54/1285 **WEBS**

 $3-15=-444/88,\ 5-15=0/485,\ 5-13=-917/133,\ 6-13=0/442,\ 7-13=-41/668,\ 7-11=-864/62,$

8-11=-78/257, 9-11=0/1367, 2-16=0/1878

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 182 lb

FT = 10%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076716 211238 H5 Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:44 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-JWYbXfsY8baVrKC5684N1aW2cWz5Nxfp0R6fPcyCysX -0<u>-10₋82-4-0</u> 0-10-8 2-4-0 12-4-0 17-4-0 22-4-0 27-4-0 30-7-12 36-8-0

5-0-0

5-0-0

3-3-12

6-0-4

Structural wood sheathing directly applied or 3-1-13 oc purlins,

4-17, 6-15, 7-14, 8-14, 10-11

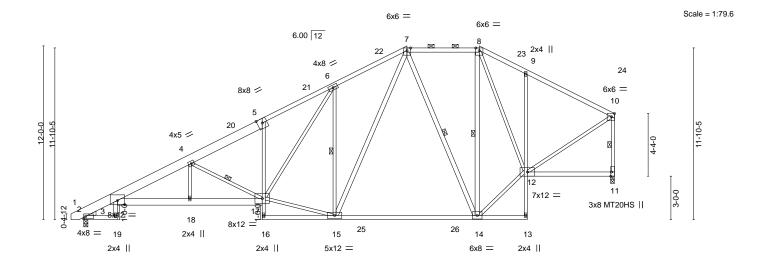
except end verticals, and 2-0-0 oc purlins (5-1-15 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14,12-13.

1 Row at midpt

5-0-0



	2-4-0	7-4-0	12-4-0	17-4-0	27-4-0	30-7-12	36-8-0
	2-4-0	5-0-0	5-0-0	5-0-0	10-0-0	3-3-12	6-0-4
Plate Offsets (X,Y)	[3:0-6-0,0-	3-6], [10:0-2-8,Edg	ge], [11:0-3-8,Edge	•]			

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.73 BC 0.57 WB 0.99	Vert(CT) -0.66 14-15 >660 Horz(CT) 0.28 11 n/a	L/d PLATES GRIP 360 MT20 197/144 240 MT20HS 148/108 n/a
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.16 5 >999	240 Weight: 231 lb FT = 10%
DCDL 10.0				

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

1-5: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

3-17: 2x6 SP 2400F 2.0E, 5-16,9-13: 2x3 SPF No.2

5-0-0

5-0-0

13-16: 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* **WEBS**

7-15,7-14,8-14: 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8 11=0-3-2

Max Horz 2=213(LC 9)

Max Uplift 2=-34(LC 12)

Max Grav 2=1765(LC 3), 11=1792(LC 43)

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

TOP CHORD 2-3=-1050/0, 3-4=-3867/121, 4-5=-2971/103, 5-6=-2945/177, 6-7=-2093/167,

7-8=-1087/82, 8-9=-1492/81, 9-10=-1523/44, 10-11=-1687/6

BOT CHORD 3-18=-247/3652, 17-18=-245/3649, 5-17=-303/105, 14-15=0/1305, 9-12=-476/143 **WEBS** 4-17=-1278/138, 15-17=-24/1724, 6-17=-162/1453, 6-15=-1266/224, 7-15=-123/1286,

7-14=-645/102, 8-14=-282/78, 12-14=0/1475, 8-12=-89/638, 10-12=0/1525

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



December 3,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076717 211238 Н6 Hip Job Reference (optional) Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:46 2021 Page 1 Wheeler Lumber, ID:YO7_68gAzryMRVt_sV_?nbyD_zk-FugMyLuogDqD4dMUEZ6r6?cOcJdWruV6TlbITVyCysV 7-4-0 12-4-0 18-4-0 24-10-0 31-4-0 36-4-14 5-0-0 5-0-0 6-0-0 6-6-0 6-6-0 5-0-14 Scale = 1:69.5 6x6 = 6.00 12 3x10 =5x7 = 6 7 6x6 < 8x8 / 20⁵ 4x5 / 19 4

2-4-0	7-4-0	12-4-0	18-4-0	24-10-0	31-4-0	36-4-14	1
2-4-0	5-0-0	5-0-0	6-0-0	6-6-0	6-6-0	5-0-14	7

14

4x10 =

1321

3x6 =

22

12

2x4 |

1 Row at midpt

23

11

6x8 =

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

except end verticals, and 2-0-0 oc purlins (4-0-14 max.): 6-8.

4-16, 6-14, 7-11, 8-11, 9-10

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

10

3x4 II

1 late 0113013 (A, 1) [0.0 0 11	o,Lugoj			
LOADING (psf) TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.26 16-17 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.45 16-17 >968 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.32 10 n/a n/a	
DOD! 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.13 5 >999 240	Weight: 219 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

17

2x4 II

BOT CHORD 2x4 SPF No.2 *Except* 3-18,5-15: 2x3 SPF No.2, 3-16: 2x6 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*

1-5: 2x8 SP 2400F 2.0E

7-14,7-11,9-10: 2x4 SPF No.2 WEDGE

10.0

4x8 =

Plate Offsets (X Y)-- [8:0-3-10 Edge]

18

2x4 ||

Left: 2x4 SP No.3

BCDL

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=235(LC 11)

Max Uplift 2=-25(LC 12)

Max Grav 2=1769(LC 3), 10=1782(LC 3)

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

TOP CHORD $2 - 3 = -1044/0,\ 3 - 4 = -3820/57,\ 4 - 5 = -2937/61,\ 5 - 6 = -2897/157,\ 6 - 7 = -1662/77,\ 7 - 8 = -795/50,$

8-9=-940/46, 9-10=-1693/0

BOT CHORD 3-17=-114/3607, 16-17=-111/3605, 5-16=-441/145, 12-14=-76/1492, 11-12=-76/1492 **WEBS** 4-16=-1246/97, 14-16=-75/1523, 6-16=-153/1572, 6-14=-469/118, 7-14=-58/458,

7-12=0/382, 7-11=-1251/46, 9-11=-15/1413

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

16

15

3x4 ||

8x12 =

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





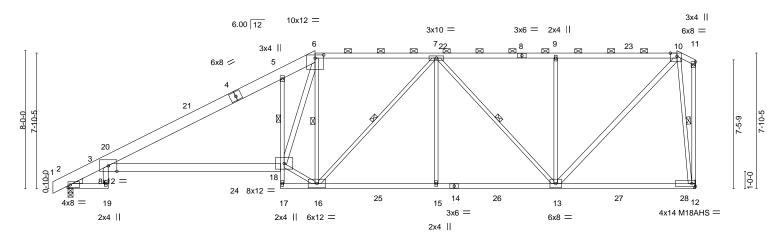
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Triplex 149076718 211238 H7 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:47 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-j5EkAhvRRWy4inxgoGe4fD8YtjuAaIDGiPLJ0xyCysU -0-10-8 2-4-0 0-10-8 2-4-0 14-4-0 21-4-7 10-0-0 2-0-0 7-0-7

Scale = 1:66.8



	2-4-0	12-4-0	14-4-0	21-4-7	28-3-9	35-4-0	36-4-14
	2-4-0	10-0-0	2-0-0	7-0-7	6-11-3	7-0-7	1-0-14
Plate Offsets (6:0-6-0,0-2-3], [10:0-4-10,Edge]					

LOADING (psf) TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.	52 3-18	>836	360	MT20	197/144
	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.9	91 3-18	>479	240	M18AHS	142/136
TCDL 10.0	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.	50 12	n/a	n/a		
BCLL 0.0	Code IBC2018/TPI2014	Matrix-S	- (- /	23 3-18	>999	240	Weight: 205 lb	FT = 10%
BCDI 10.0	Code 15C2016/1F12014	Matrix-3	VVIIId(LL) U.	23 3-10	>333	240	Weight. 203 ib	$\Gamma I = 1070$

BRACING-

TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

4-6.1-4: 2x8 SP 2400F 2.0E 2x4 SPF No.2 *Except* **BOT CHORD**

3-19: 2x4 SPF 2100F 1.8E, 3-18: 2x6 SP 2400F 2.0E

5-17: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 6-18,10-13: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=216(LC 9)

Max Uplift 2=-4(LC 12), 12=-57(LC 9) Max Grav 2=1808(LC 3), 12=1872(LC 42)

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

TOP CHORD 2-3=-1077/0, 3-5=-3297/27, 5-6=-3629/117, 6-7=-2078/32, 7-9=-1607/61,

9-10=-1607/61

BOT CHORD 3-18=-152/2993, 5-18=-1597/269, 15-16=-128/2172, 13-15=-128/2172 **WEBS**

16-18=-96/2553, 6-18=-167/3030, 6-16=-1035/113, 7-16=-301/195, 7-15=0/365, 7-13=-883/37, 9-13=-648/123, 10-13=-60/2009, 10-12=-1808/180

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.

ONAL December 3,2021

Structural wood sheathing directly applied or 3-1-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-0-1 max.): 6-10.

5-18

6-16, 7-16, 7-13, 10-12

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:



Job	Truss	Truss Type	Qty	Ply	Triplex
044000	117	110-			149076718
211238	H7	Hip	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:48 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-BHn6N1w3Cq4xJxWtL_9JBQhjd7EPJITPx34sYNyCysT

- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 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 Triplex 149076719 211238 Н8 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:49 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-gTLUaNwhz8Cox553vhgYkeEtnXZa2DFZ9jqP4qyCysS -0-10-8 2-4-0 0-10-8 2-4-0 10-4-0 12-4-0 28-3-5 36-4-14

8-0-5

2-0-0

12-4-0

Scale = 1:64.8

8-1-9

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

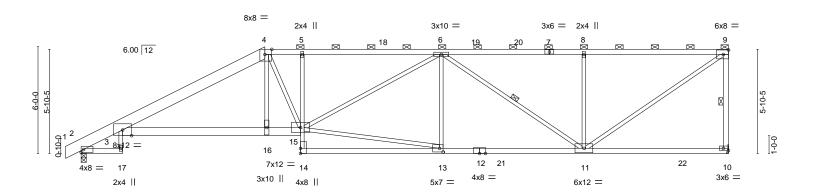
except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 4-9.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

9-10, 6-11

2-2-0 oc bracing: 11-13.

1 Row at midpt



2-4-0	0-0-0	7-11-1	0-0-3	0-1-9	
Plate Offsets (X,Y) [4:0-4-10	0,Edge], [10:Edge,0-1-8], [13:0-2-8,0-2-	8]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	CSI. TC 0.83 BC 0.99 WB 0.90 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.40 3-16 >999 Vert(CT) -0.70 3-16 >616 Horz(CT) 0.46 10 n/a Wind(LL) 0.20 3-16 >999	L/d PLATES 360 MT20 240 n/a 240 Weight: 173 lb	GRIP 197/144 FT = 10%
BCDL 10.0	0000 1202010/11 12011	I III III I	111114(22) 0120 010 1000	2.0	

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-3-1

LUMBER-2x4 SPF 2100F 1.8E *Except* TOP CHORD

8-0-0

1-4: 2x8 SP DSS **BOT CHORD** 2x4 SPF No.2 *Except*

2-4-0

3-17,5-14: 2x3 SPF No.2, 3-15: 2x6 SPF 1650F 1.4E 10-12: 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except*

WEBS 9-10: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=165(LC 9) Max Uplift 10=-82(LC 9)

Max Grav 10=1860(LC 35), 2=1748(LC 3)

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

TOP CHORD 2-3=-1003/0, 3-4=-3222/70, 4-5=-3092/122, 5-6=-3099/124, 6-8=-2125/97,

8-9=-2125/97, 9-10=-1725/120

BOT CHORD 3-16=-157/2933, 15-16=-152/2942, 5-15=-443/122, 13-14=0/329, 11-13=-162/2936 **WEBS**

4-16=0/501, 4-15=-191/583, 13-15=-179/2632, 6-15=-40/375, 6-11=-993/42,

8-11=-720/148, 9-11=-114/2544

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076720 211238 Н9 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:51 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-csTF?2yxVISWAPES16i0p3JB6KJYW7Hrd1JW9iyCysQ

28-4-3

7-11-7

20-4-11

8-0-11

Scale = 1:67.3

36-4-14

8-0-11

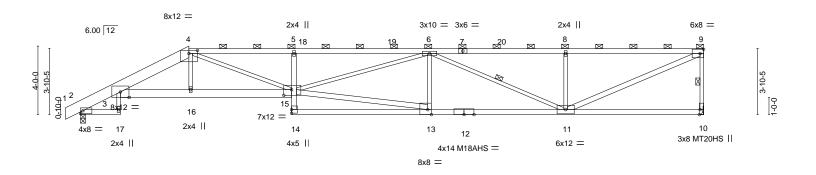
Structural wood sheathing directly applied or 3-4-5 oc purlins,

9-10, 6-11

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-9.

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

1 Row at midpt



2-4-0 4-0-	0 6-0-0	8-0-11	7-11	1-7		8-0-11		
Plate Offsets (X,Y) [4:0-6-0,	0-2-3], [10:0-3-8,Edge], [13:0-2-8,Edge	e], [15:0-5-8,0-4-0]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2018/TPI2014	CSI. TC 0.97 BC 0.71 WB 0.93 Matrix-S	Vert(CT) Horz(CT)	in (loc) 0.50 5 0.89 13-14 0.38 10 0.28 15	I/defI >859 >490 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS M18AHS Weight: 159 lb	GRIP 197/144 148/108 142/136 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SPF 2400F 2.0E *Except*

> 1-4: 2x8 SP DSS 2x4 SPF 2100F 1.8E *Except*

BOT CHORD

2-17: 2x4 SPF No.2, 3-17: 2x3 SPF No.2, 3-15: 2x6 SPF 1650F 1.4E

12-4-0

WEBS 2x3 SPF No.2 *Except*

2-4-0

-0-10₇8 2-4-0 0-10-8 2-4-0

6-4-0

4-0-0

12-4-0

6-0-0

13-15,9-11: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=106(LC 11)

Max Uplift 10=-84(LC 9), 2=-18(LC 9) Max Grav 10=1773(LC 33), 2=1700(LC 2)

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

2-3=-947/24, 3-4=-3781/150, 4-5=-5558/272, 5-6=-5478/275, 6-8=-3164/157, TOP CHORD

8-9=-3164/157, 9-10=-1700/123

BOT CHORD $3-16=-204/3609,\ 15-16=-198/3610,\ 5-15=-600/124,\ 13-14=-13/633,\ 11-13=-234/4297$ **WEBS** 4-15=-163/2096, 13-15=-223/3698, 6-15=-87/1238, 6-13=-352/130, 6-11=-1319/64,

8-11=-723/148, 9-11=-168/3419

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3,2021



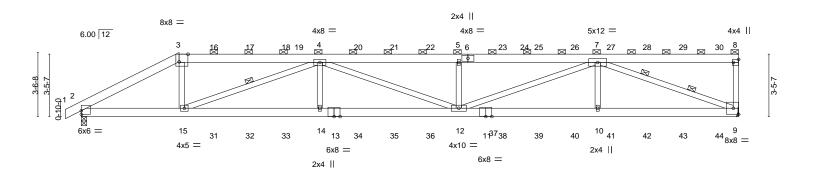
Job Truss Truss Type Qty Ply Triplex 149076721 211238 H10 Half Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:36 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-Yz3aswmX18Zet5bZeSxViuBgBHAWVKAeABAD74yCysf -0-10-8 0-10-8 20-10-15 28-7-4 <u>36-4</u>-14 13-2-9

7-8-5

7-8-5

Scale: 3/16"=1"

7-9-10



	5-5-0	13-2-9	20-10-15	28-7-4	36-4-14					
	5-5-0	7-9-9	7-8-5	7-8-5	7-9-10					
Plate Offsets (X,Y) [2:0-0-0,0-2-7], [3:0-5-14,Edge], [8:Edge,0-3-8]										
LOADING TCLL (roof) Snow (Pf/Pg TCDL BCLL BCDL	VI /	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.76 BC 0.80 WB 0.96 Matrix-S	Vert(CT) -0.70 12-14 >616 Horz(CT) 0.15 9 n/a	L/d PLATES 360 MT20 240 n/a 240 Weight: 184 lb	GRIP 197/144 FT = 10%				

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF 1650F 1.4E *Except*

9-11: 2x6 SPF No.2

WFBS 2x4 SPF No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=89(LC 54)

Max Uplift 9=-626(LC 9), 2=-511(LC 9) Max Grav 9=1789(LC 33), 2=1803(LC 2)

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

TOP CHORD 2-3=-3194/1085, 3-4=-2815/976, 4-5=-5093/1867, 5-7=-5093/1867, 8-9=-300/119

7-9-9

BOT CHORD 2-15=-992/2757, 14-15=-1822/5039, 12-14=-1822/5039, 10-12=-1328/3662,

9-10=-1328/3662

WEBS 3-15=-370/1174, 4-15=-2389/897, 4-14=0/304, 4-12=-103/256, 5-12=-516/259,

7-12=-614/1638, 7-10=0/326, 7-9=-3853/1381

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 arip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=626, 2=511,
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-11-15 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-10-14 max.): 3-8.

4-15

7-9

Rigid ceiling directly applied or 6-5-2 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

December 3,2021



Job	Truss	Truss Type	Qty	Ply	Triplex
044000	1140	Half His Circles	_		I49076721
211238	H10	Half Hip Girder	1	1	Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:36 2021 Page 2 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-Yz3aswmX18Zet5bZeSxViuBgBHAWVKAeABAD74yCysf

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 58 lb up at 5-5-0, 61 lb down and 58 lb up at 7-3-4, 61 lb down and 58 lb up at 9-3-4, 61 lb down and 58 lb up at 11-3-4, 61 lb down and 58 lb up at 15-3-4, 61 lb down and 58 17-3-4, 61 lb down and 58 lb up at 19-3-4, 61 lb down and 58 lb up at 21-3-4, 61 lb down and 58 lb up at 25-3-4, 61 lb down and 25 lb up at 25-3-4, 61 lb do lb up at 27-3-4, 61 lb down and 58 lb up at 29-3-4, 61 lb down and 58 lb up at 31-3-4, and 61 lb down and 58 lb up at 33-3-4, and 61 lb down and 58 lb up at 35-3-4 on top chord, and 150 lb down and 107 lb up at 5-5-0, 20 lb down and 22 lb up at 7-3-4, 20 lb down and 22 lb up at 9-3-4, 20 lb down and 22 lb up at 11-3-4, 20 lb down and 22 lb up at 13-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 22 lb up at 17-3-4, 20 lb down and 22 lb up at 21-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 22 lb up at 21-3-4, 20 lb down and 22 lb up at 15-3-4, 20 lb down and 25 lb up at 15-3-4, 20 lb down and 25 lb up at lb down and 22 lb up at 23-3-4, 20 lb down and 22 lb up at 25-3-4, 20 lb down and 22 lb up at 27-3-4, 20 lb down and 22 lb up at 29-3-4, 20 lb down and 20 lb up at 29-3-4, 20 lb down and 20 l 31-3-4, and 20 lb down and 22 lb up at 33-3-4, and 20 lb down and 22 lb up at 35-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-8=-61, 2-9=-20

Concentrated Loads (lb)

Vert: 15=-150(B) 14=-0(B) 31=-0(B) 32=-0(B) 33=-0(B) 34=-0(B) 35=-0(B) 35=-0(B) 37=-0(B) 37=-0(B) 39=-0(B) 40=-0(B) 41=-0(B) 42=-0(B) 43=-0(B) 44=-0(B) 41=-0(B) 42=-0(B) 42=-

Job Truss Truss Type Qty Ply Triplex 149076722 211238 J1 Diagonal Hip Girder 6 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:52 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-421dDOzZG3aNoYpeapDFMGsX2knNFn6?sh24h9yCysP -1-2-14 1-2-14 <u>4-7-12</u> Scale = 1:15.2

> 2x4 4.24 12 6 3x10 || 2x4 ||

Plate Offsets (X,Y) [5:0-5-7,0	0-1-8]							
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.26 BC 0.16 WB 0.00 Matrix-R	Vert(CT)	in (loc) -0.01 4-5 -0.03 4-5 -0.00 4 0.00 4-5	I/defI >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 10%
BCDL 10.0	0000 1002010/11 12011	Water 14	VVIIId(LL)	0.00	7000	210	Wolgin: 10 lb	11 - 1070

BRACING-

TOP CHORD

BOT CHORD

4-7-12

LUMBER-TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2

2x6 SPF No.2 *Except* WFBS 3-4: 2x3 SPF No.2

(size) 5=0-4-9, 4=Mechanical

Max Horz 5=73(LC 9)

Max Uplift 5=-48(LC 8), 4=-14(LC 12) Max Grav 5=334(LC 19), 4=186(LC 19)

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

TOP CHORD 2-5=-298/78

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 4.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 16 lb up at 1-10-14, and 48 lb down and 16 lb up at 1-10-14 on top chord, and 3 lb down and 2 lb up at 1-10-14, and 3 lb down and 2 lb up at 1-10-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 7=1(F=0, B=0)



Structural wood sheathing directly applied or 4-7-12 oc purlins,

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

except end verticals.



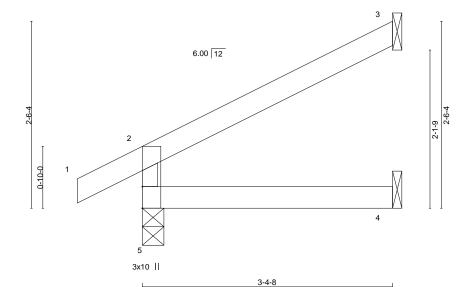
Job Truss Truss Type Qty Ply Triplex 149076723 211238 J2 15 Jack-Open Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:53 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-YEb?QkzB1MiEQiOq8XIUuUOjL88e_EM84KodDbyCysO

-0-10-8 3-4-8 0-10-8

Scale = 1:15.5



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.16 BC 0.09	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.01 4-5 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 3 n/a n/a	
BCDL 10.0	Code IBC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	Weight: 10 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 2x3 SPF No.2 WFBS

BRACING-

3-4-8

TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins,

except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 12)

Max Uplift 5=-1(LC 12), 3=-37(LC 12)

Max Grav 5=243(LC 19), 3=108(LC 19), 4=61(LC 7)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



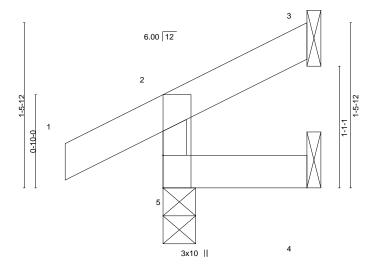
Job Truss Truss Type Qty Ply Triplex 149076724 211238 J3 12 Jack-Open Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:54 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-0R9Ne4_qogq52sz0iEGjRhxvWYV8jhclJ_XAl1yCysN

-0-10-8 0-10-8

Scale = 1:10.3



1-3-7

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.01 WB 0.00	Vert(CT) -0	in (loc) 0.00 5 0.00 5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-R	- (- /	0.00 5	n/a >999	n/a 240	Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-3-7 oc purlins,

except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=26(LC 9)

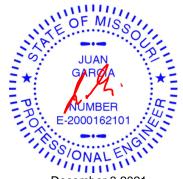
Max Uplift 5=-6(LC 12), 3=-13(LC 12)

Max Grav 5=150(LC 2), 3=16(LC 2), 4=21(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076725 211238 J4 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:55 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-UdjmrQ?SZ_yyf0YDGynyzvU3exriS8sRYeHklTyCysM -1-2-14 1-2-14 Scale = 1:12.3 2x4 4 4.24 12 -10-120-10-0 3x10 || 2x4 || 3-0-0 Plate Offsets (X,Y)-- [5:0-5-7,0-1-8]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.17 BC 0.05	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 4-5 >999 360 Vert(CT) -0.00 4-5 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	W : 1, 40 H
BCDL 10.0	Code IBC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 10 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2

2x6 SPF No.2 *Except* **WEBS** 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-9, 4=Mechanical

Max Horz 5=54(LC 9)

Max Uplift 5=-49(LC 8), 4=-8(LC 9) Max Grav 5=260(LC 19), 4=94(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 4.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

December 3,2021



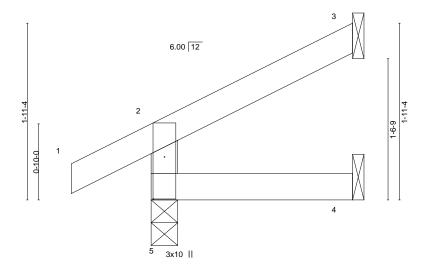
Job Truss Truss Type Qty Ply Triplex 149076726 211238 J5 3 Jack-Open Job Reference (optional)

> -0-10-8 0-10-8

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:55 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-UdjmrQ?SZ_yyf0YDGynyzvU48xr3S8sRYeHklTyCysM

Scale = 1:12.6



2-2-8 2-2-8

	Plate Offsets	(X.Y)	[5:0-5-9,0-1-8]
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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.03 WB 0.00	Vert(CT) -0.	in (loc) 0.00 5 0.00 4-5 0.00 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDI 10.0	Code IBC2018/TPI2014	Matrix-R	Wind(LL) 0.	0.00 5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins,

except end verticals.

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

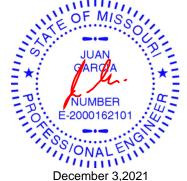
Max Horz 5=35(LC 12)

Max Uplift 5=-4(LC 12), 3=-23(LC 12)

Max Grav 5=187(LC 19), 3=56(LC 19), 4=37(LC 7)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



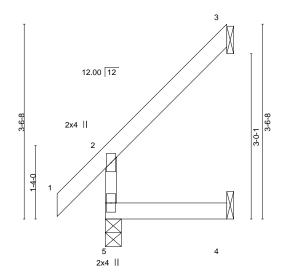
Job	Truss	Truss Type	Qty	Ply	Triplex
044000	10	last Ones	00		149076727
211238	J6	Jack-Open	29	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:56 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-ypG82m04JH5pHA7PpflBW60F8LAlBb5aml0HqwyCysL

-0-10-8 2-2-8 2-2-8 0-10-8

Scale = 1:20.9



2-2-8

LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL	f) 25.0 15.4/20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.12 0.06	DEFL. Vert(LL) Vert(CT)	0.00	(loc) 4-5 4-5	I/defI >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IBC2018/TF	YES PI2014	WB Matri	0.00 x-R	Horz(CT)	-0.01	3	n/a	n/a	Weight: 9 lb	FT = 10%	

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins,

except end verticals

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=72(LC 10)

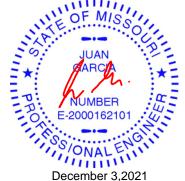
2x3 SPF No.2

Max Uplift 3=-56(LC 10), 4=-10(LC 10)

Max Grav 5=177(LC 2), 3=66(LC 22), 4=39(LC 5)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



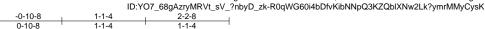




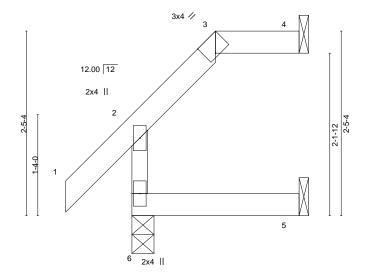


Job Truss Truss Type Qty Ply Triplex 149076728 211238 J7 Jack-Open Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:57 2021 Page 1



Scale = 1:15.2



2-2-8

Plate Offsets (X,Y) [3:0-1-8,Edge	:]_
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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Pop Strong Logs VES	CSI. TC 0.08 BC 0.04	Vert(CT) -0	in (loc) 0.00 6 0.00 5-6	l/defl L >999 36 >999 24	0 MT20 0	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.00 Matrix-R	- (- /	0.01 4 0.00 5-6	n/a n >999 24		FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x3 SPF No 2 WFBS

BRACING-

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 6=46(LC 7)

Max Uplift 4=-24(LC 7), 5=-1(LC 10)

Max Grav 6=177(LC 2), 4=56(LC 2), 5=39(LC 5)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) 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 Triplex 149076729 211238 J8 Diagonal Hip Girder Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:58 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-vCOuTR1KrvLWWTHox4KfbX6Yf9rPfVbtEcVOuoyCysJ

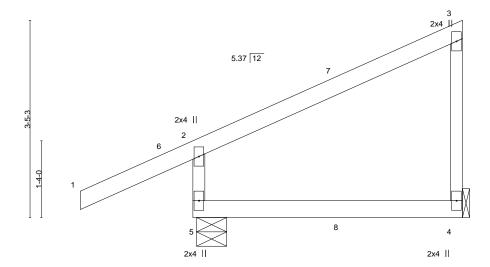
Structural wood sheathing directly applied or 4-8-4 oc purlins,

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

except end verticals

-1-11-8 4-8-4 1-11-8

Scale = 1:20.0



4-7-8

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.31 BC 0.18		in (loc) .02 4-5 .04 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	- (- /	.00 4	n/a	n/a	147 : 1 4 4 7 11	FT 400/
BCDL 10.0	Code IBC2018/TPI2014	Matrix-R	Wind(LL) 0.	.01 4-5	>999	240	Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

(size) 5=0-6-5, 4=Mechanical

Max Horz 5=103(LC 9)

Max Uplift 5=-40(LC 12), 4=-40(LC 9) Max Grav 5=378(LC 2), 4=195(LC 19)

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

TOP CHORD 2-5=-335/63

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 4.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 43 lb up at 0-4-4, and 54 lb down and 30 lb up at 2-7-6 on top chord, and 16 lb down and 24 lb up at 2-7-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 8=1(B)







Job	Truss	Truss Type	Qty	Ply	Triplex
			١.		149076730
211238	J9	Jack-Open	1	1	11.57
			1		Llob Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:58 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-vCOuTR1KrvLWWTHox4KfbX6bP9tjfVbtEcVOuoyCysJ

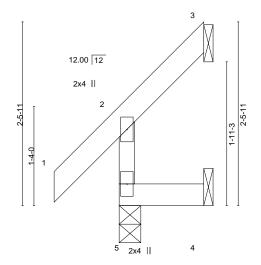
Structural wood sheathing directly applied or 1-1-11 oc purlins,

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

except end verticals.

-0-10-8 1-1-11 0-10-8

Scale = 1:15.5



1-1-11

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.03 WB 0.00	DEFL. in (loc) l/defl Vert(LL) -0.00 5 >999 Vert(CT) -0.00 5 >999 Horz(CT) -0.01 3 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-R	, ,		Weight: 6 lb	FT = 10%

LUMBER-

WFBS REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 2x3 SPF No.2

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=45(LC 7)

Max Uplift 3=-32(LC 10), 4=-18(LC 10)

Max Grav 5=147(LC 2), 3=20(LC 8), 4=25(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



December 3,2021



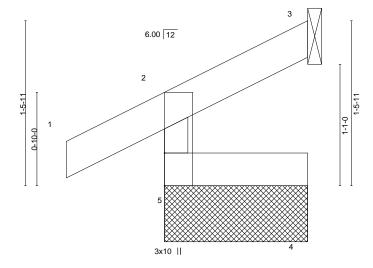
Job	Truss	Truss Type	Qty	Ply	Triplex
044000	140	lasti Ones	_		149076731
211238	J10	Jack-Open	1	1	Inh Pafarance (antional)
					Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:53 2021 Page 1

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-YEb?QkzB1MiEQiOq8XIUuUOkH89L_EM84KodDbyCysO -0-10-8 0-10-8

Scale = 1:10.3



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.10 BC 0.05	- ' '	in (loc 0.01 4	l/defl 1 >999 1 >849	L/d 360 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDI 10.0	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT)	0.00	3 n/a 4 >999	n/a 240	Weight: 5 lb	FT = 10%

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-3-5 oc purlins,

except end verticals.

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

REACTIONS. (size) 5=1-3-5, 3=Mechanical

2x3 SPF No.2

Max Horz 5=26(LC 9)

Max Uplift 5=-6(LC 12), 3=-12(LC 12) Max Grav 5=150(LC 2), 3=27(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Ply Triplex 149076732 211238 LAY1 **GABLE** 3 Job Reference (optional)

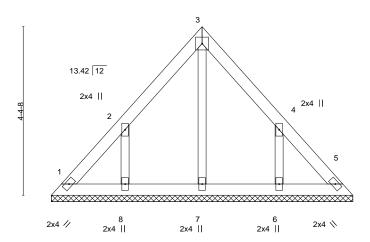
Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:40:59 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-NOyGhn2ycCTN8ds_Vnru8lenVZC5OyO1TGFxRFyCysI

3-11-0 3-11-0 3-11-0

4x4 =

Scale = 1:29.9



7-9-15 7-9-15

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	,					Weight: 27 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING-

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

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

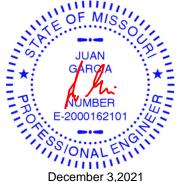
REACTIONS. All bearings 7-9-15.

Max Horz 1=76(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 1, 5, 8, 6.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076733 211238 LAY2 **GABLE** 2 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

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

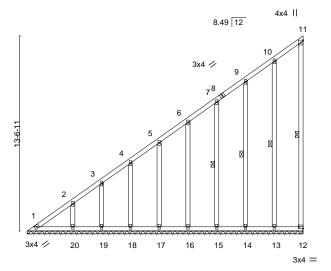
11-12, 10-13, 9-14, 7-15

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

except end verticals.

1 Row at midpt

Scale = 1:80.1



19-2-1

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

LOADING (psf) TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL.	in (I	loc)	I/defl	L/d	PLATES	GRIP
,	Plate Grip DOL 1.15	TC 0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.14	Horz(CT)	-0.00	12	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-S	(5.7)					Weight: 123 lb	FT = 10%
BCDL 10.0	0000 1002010/11 12011	Water &						Wolght: 120 lb	1 1 - 1070

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No 2

2x4 SPF 2100F 1.8E WFBS **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 19-2-1. (lb) -Max Horz 1=368(LC 7)

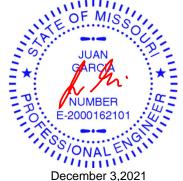
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 13, 14, 15, 16, 17, 18, 19, 20

Max Grav All reactions 250 lb or less at joint(s) 12, 1, 13, 14, 15, 16, 17, 18, 19 except 20=255(LC 2)

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

TOP CHORD 1-2=-346/228, 2-3=-309/195, 3-4=-282/182, 4-5=-254/163

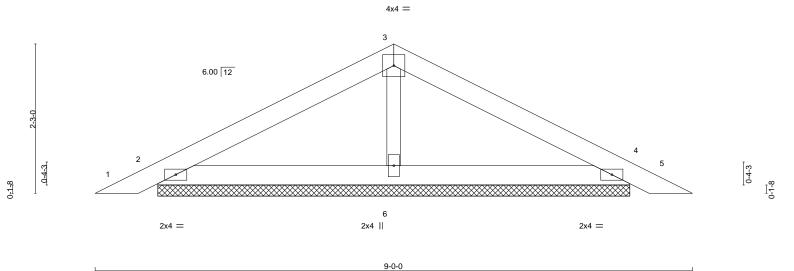
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) 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 3-6-0 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) 12, 1, 13, 14, 15, 16, 17, 18, 19, 20,
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076736 211238 P1 15 Piggyback Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:02 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-nzePJp4rv7ry?5aZAwPbmNGFnmDUbJzT9ETb2ayCysF 4-6-0

Scale = 1:17.4



·		9-0-0					<u>.</u>	
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.24 BC 0.11 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.01 5 0.01 5 0.00 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	, ,				Weight: 21 lb	FT = 10%

BRACING-

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

TOP CHORD BOT CHORD

4-6-0

2x3 SPF No.2 **OTHERS**

(size) 2=7-1-6, 4=7-1-6, 6=7-1-6

Max Horz 2=26(LC 12)

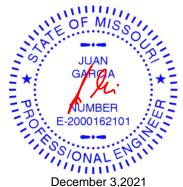
Max Uplift 2=-24(LC 12), 4=-29(LC 13)

Max Grav 2=228(LC 19), 4=228(LC 20), 6=299(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2 and 29 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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



Job Truss Truss Type Qty Ply Triplex 149076737 211238 P2 **GABLE** 2 Job Reference (optional)

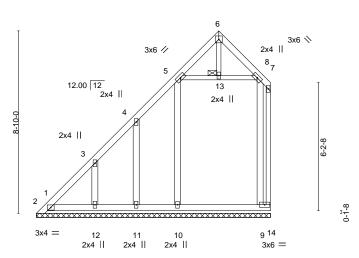
4x4 =

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:03 2021 Page 1

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-FABnX95TgRzpdF9lkdwqlbpQfAYnKklcNuD9a0yCysE 8-10-0 11-4-0 8-10-0 2-6-0

Scale = 1:55.8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d PLATES GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.16 Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Weight: 61 lb FT = 10%BCDL 10.0

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

11-4-0 11-4-0

BOT CHORD 2x4 SPF No.2 except end verticals

2x3 SPF No 2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS 2x4 SPF No 2 OTHERS JOINTS 1 Brace at Jt(s): 13

REACTIONS. All bearings 11-4-0.

(lb) -Max Horz 1=215(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12 except 1=-162(LC 22)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 11 except 10=428(LC 22), 12=257(LC 22)

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

TOP CHORD 1-2=-281/224

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 10, 11, 12 except (jt=lb) 1=162.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076738 211238 Р3 16 Piggyback Job Reference (optional)

4x4 =

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:04 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-jMl9kV65Rl5gEOkxHLR3roLa?auG3BbmcYyi6SyCysD

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

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

except end verticals.

1 Row at midpt

8-10-0 11-4-0 8-10-0 2-6-0

Scale = 1:55.0

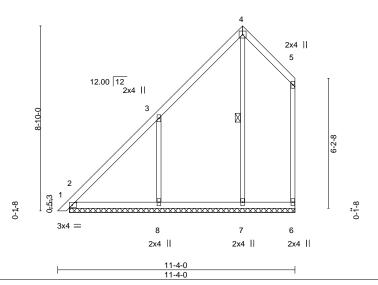


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.26 BC 0.15	Vert(CT) 0	in (loc) 0.00 1 0.00 1	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 197/144
BCLL 0.0 *	Rep Stress Incr YES Code IBC2018/TPI2014	WB 0.16 Matrix-S	Horz(CT) -0	0.00 6	n/a	n/a	Weight: 45 lb	FT = 10%
BCDL 10.0	Code 1BC2010/1F12014	Wattix-3					Weight. 45 ib	F1 = 1076

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x3 SPF No.2 WFBS

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 10-9-5. (lb) -

Max Horz 2=214(LC 7) Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-171(LC 10)

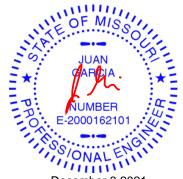
Max Grav All reactions 250 lb or less at joint(s) 6 except 2=267(LC 23), 7=412(LC 22), 8=567(LC 22)

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

WEBS 3-8=-355/217

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076739 P4 2 211238 Piggyback Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:05 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-CYJYxr7jC2DXsYJ8r2yJN0ulOzDFobYvrCiGeuyCysC

> Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

8-5-4 8-5-4 9-2-12 11-4-0 0-9-8 2-1-4

Scale = 1:49.9

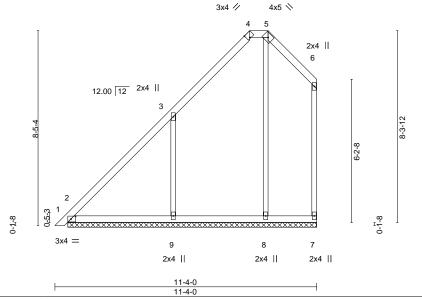


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-1-8,Edge]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.28 BC 0.17 WB 0.37	DEFL. in Vert(LL) 0.00 Vert(CT) 0.01 Horz(CT) -0.00	(loc) 1 1 7	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDI 10.0	Code IBC2018/TPI2014	Matrix-S	, ,				Weight: 45 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x3 SPF No.2 WFBS

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 10-9-5.

(lb) -Max Horz 2=207(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8 except 9=-163(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 7 except 2=273(LC 23), 8=369(LC 22), 9=593(LC 22)

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

WEBS 3-9=-369/209

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8 except (jt=lb) 9=163.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Triplex 149076740 P5 2 211238 Piggyback Job Reference (optional) Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:05 2021 Page 1 Wheeler Lumber, ID:YO7_68gAzryMRVt_sV_?nbyD_zk-CYJYxr7jC2DXsYJ8r2yJN0ukfzDLod1vrCiGeuyCysC 15-4-0 Scale = 1:36.7 5 11 6.00 12 0-11-8 3x4 =10 9 8 12 15-4-0 15-4-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) 0.00 n/r 120 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.16 Vert(CT) 0.00 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.21 Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Weight: 49 lb FT = 10%

LUMBER-

BCDL

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

2x3 SPF No 2 WFBS 2x3 SPF No.2 OTHERS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals

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

REACTIONS. All bearings 14-4-11.

(lb) -Max Horz 2=214(LC 9)

10.0

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10

Max Grav All reactions 250 lb or less at joint(s) 7, 2 except 8=477(LC 5), 9=383(LC 3), 10=324(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 5-8=-313/90, 4-9=-281/100 **WEBS**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2x4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 9, 10.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Ply Triplex 149076741 P6 2 211238 Piggyback Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:06 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-gktw9B7LzMLOUiuKPmTYwDRwCNZaX4j34sRpBLyCysB 14-0-0 15-4-0 14-0-0 Scale = 1:38.7 3x4 =6 5 13 6.00 12 6-10-8

Plate Offsets (X,Y) [6:0-2-0,	0-2-8]										
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL	25.0 20.4/20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.28 0.16 0.25	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.00	(loc) 1 1 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL	0.0 *	Code IBC2018/TPI	12014	Matri	x-S						Weight: 48 lb	FT = 10%

14

BRACING-

TOP CHORD

BOT CHORD

9

8

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

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

10

15-4-0 15-4-0

LUMBER-TOP CHORD

BCDL

2x4 SPF No.2

10.0

0-1-8

BOT CHORD 2x4 SPF No 2 2x3 SPF No 2 WFBS

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 14-4-11. (lb) -

Max Horz 2=196(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 10, 11

3x4 =

11

Max Grav All reactions 250 lb or less at joint(s) 8, 2 except 9=516(LC 36), 10=439(LC 36), 11=364(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 5-9=-366/76, 4-10=-355/104, 3-11=-294/83

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding. 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 10, 11
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) 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 Triplex 149076742 P7 2 211238 Piggyback Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:08 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-c7?gas9cVzb6j02jWAW0?eWGNBF3??JMXAwwFDyCys9 10-0-0 15-4-0 10-0-0 Scale = 1:29.5 3x4 = 6 6.00 12 0-1-8 11 10 12 9 8 3x4 =15-4-0 Plate Offsets (X,Y)--[5:0-2-0,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) 0.00 n/r 120 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.16 Vert(CT) 0.00 n/r 120 TCDL 10.0 WB 0.18 Rep Stress Incr YES Horz(CT) -0.00 8 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Weight: 45 lb FT = 10% BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No 2 **BOT CHORD** 2x3 SPF No 2 WFBS

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 14-4-11.

(lb) -Max Horz 2=138(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 10, 11

Max Grav All reactions 250 lb or less at joint(s) 8, 2 except 9=492(LC 35), 10=443(LC 38), 11=374(LC 34)

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

WEBS 6-9=-337/84, 4-10=-357/94, 3-11=-303/85

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding. 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 10, 11
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

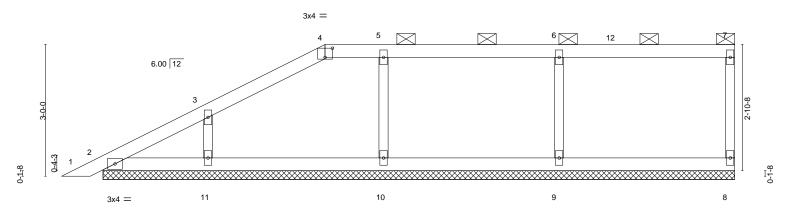
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

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



Job Truss Truss Type Qty Ply Triplex 149076743 P8 2 211238 Piggyback Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:09 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-4JZ2nCAEGHjyLAcv4u1FYs3QjbcAkTxVmqgTngyCys8

Scale = 1:26.2



15-4-0 Plate Offsets (X Y)-- [4:0-2-0 0-2-8]

1 late 0113013 (A, 1) [4.0 2 0,	,0 Z 0j			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.10 WB 0.09	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 1 n/r 120 Vert(CT) 0.00 1 n/r 120 Horz(CT) -0.00 8 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-S		Weight: 41 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

BOT CHORD 2x4 SPF No 2

2x3 SPF No 2 WFBS

(lb) -

OTHERS

2x3 SPF No.2

All bearings 14-4-11.

2x4 SPF No 2

Max Horz 2=79(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 10, 11

6-0-0

Max Grav All reactions 250 lb or less at joint(s) 8, 2 except 9=473(LC 33), 10=378(LC 33), 11=373(LC 34)

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

WEBS 6-9=-388/76, 5-10=-298/68, 3-11=-302/80

NOTES-

LUMBER-

TOP CHORD

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 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 3-6-0 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) 8, 9, 10, 11.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

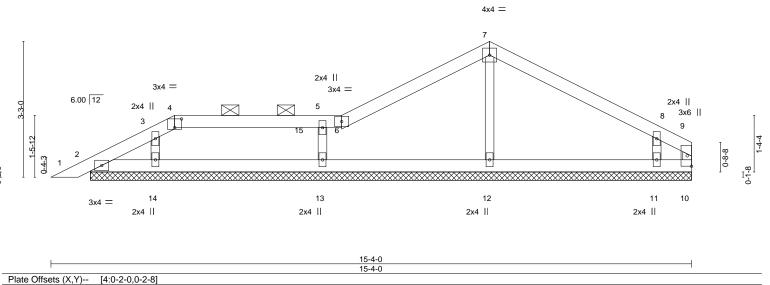
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

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



Job Truss Truss Type Qty Ply Triplex 149076744 211238 P9 2 Piggyback Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:10 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-YW7R?YBs0brpyJB5ebYU43bc8_yYTvZe_UP1K6yCys7 2-11-8 2-11-8 6-11-8 10-6-0 4-0-0 3-6-8 4-10-0

Scale = 1:27.6



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.10 WB 0.06	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 1 n/r 120 Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 10 n/a n/a		GRIP 97/144
	Code IBC2018/TPI2014	Matrix-S		Weight: 39 lb	FT = 10%
BCDL 10.0				o .	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x3 SPF No 2 WFBS

OTHERS 2x3 SPF No.2

All bearings 14-4-11. REACTIONS.

(lb) -Max Horz 2=43(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11 except 10=-131(LC 20)

Max Grav All reactions 250 lb or less at joint(s) 10, 2 except 12=329(LC 39), 13=401(LC 56), 14=266(LC 56),

11=430(LC 20)

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

WFBS 5-13=-319/83, 8-11=-363/117

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Gable requires continuous bottom chord bearing.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11 except (it=lb) 10=131.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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





211238	V1	Valley		3	1 Job Reference (o	ntional		
Wheeler Lumber,	Waverly, KS - 66871,			8.430 s A	Aug 16 2021 MiTek Ir	dustries, Inc. Thu Dec	2 15:41:11 202	1 Page 1
	•		ID:YO	7_68gAzryMRVt_	_sV?nbyD_zk-0igpC	uBUnu_gaTmlCJ3jdH8	3n0OIICMhoD89a	sYyCys6
-	6-10-8 6-10-8			9-10-8 3-0-0		13-9-8 3-11-0		
	0-10-6			3-0-0		3-11-0		
			4x5 =					Scale = 1:23.7
1-114	2x4 2 11		3		3x4 = 2 5	12	2x4	
3x4 =	10 2x4		9 2x4		8 2x4		7 23	κ 4
			13-9-8 13-9-8					<u> </u>
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL BCDL	25.0 SPACING- 4/20.0 Plate Grip Do 10.0 Lumber DOL 0.0 * Rep Stress II Code IBC20	1.15 BC	0.21 0.10	Vert(LL) n	in (loc) I/defl /a - n/a /a - n/a 00 7 n/a	999 M 999 n/a		FT = 10%
	4 SPF No.2 4 SPF No.2		BRACIN TOP CH	ORD Struct		g directly applied or 6 2-0-0 oc purlins (6-0-		

BOT CHORD

Qty

Triplex

149076745

REACTIONS. All bearings 13-9-0.

(lb) - Max Horz 1=62(LC 9)

2x3 SPF No.2

2x3 SPF No.2

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

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=345(LC 2), 10=360(LC 18), 8=382(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-9=-261/28, 2-10=-294/93, 5-8=-305/77

NOTES-

WFBS

OTHERS

Job

Truss

Truss Type

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10, 8.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

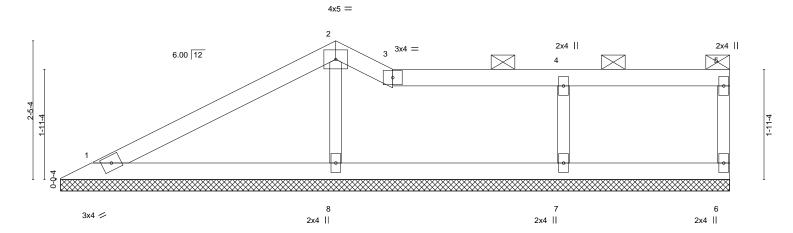


Rigid ceiling directly applied or 6-0-0 oc bracing.

Job Truss Truss Type Qty Ply Triplex 149076746 211238 V2 Valley 2 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:19 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-nF9qtdIVvM_YXiNqg_CbyzT8_d0B4_oz3N5?84yCys_

4-10-8 <u>5-10-</u>8 _ 11-9-8 4-10-8 1-0-0 5-11-0

Scale = 1:20.2



11-9-8 LOADING (psf) CSI. GRIP SPACING-2-0-0 DEFL. in (loc) I/defI L/d **PLATES** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 вс 0.12 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.06 Horz(CT) -0.00 6 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Weight: 31 lb FT = 10% BCDL 10.0

11-9-8

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No 2 WFBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-9-0.

(lb) -Max Horz 1=53(LC 9)

2x3 SPF No 2

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=406(LC 2), 7=419(LC 36)

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

WEBS 2-8=-300/52. 4-7=-346/68

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8, 7.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3,2021



Job Truss Truss Type Qty Ply Triplex 149076747 211238 V3 Valley 2 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:21 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-kdHblJJmRzEFn0XDnPF31OZT7QhoYuAGWha6CzyCyry 3-10-8 3-10-8

5-11-0

Scale = 1:18.1

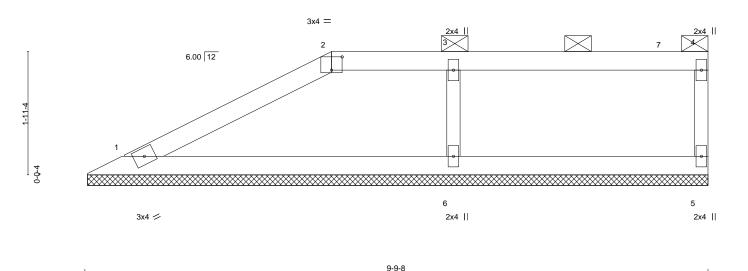


Plate Offsets (X,Y) [2:0-2-0,0)-2-8]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.36 BC 0.18 WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-S						Weight: 24 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

9-9-8

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x3 SPF No 2 WFBS

OTHERS 2x3 SPF No.2

(size) 1=9-9-0, 5=9-9-0, 6=9-9-0

Max Horz 1=48(LC 9)

Max Uplift 1=-5(LC 12), 5=-13(LC 8), 6=-17(LC 9) Max Grav 1=226(LC 33), 5=168(LC 32), 6=499(LC 32)

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

WEBS 3-6=-387/82

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.

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



Job Truss Truss Type Qty Ply Triplex 149076748 211238 V4 Valley 2 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:22 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-CprzWfKOCHM6P96PL7mlZb5e1q2BHMrPlLJfkPyCyrx 3-10-8 3-10-8 7-9-8 Scale = 1:14.6 4x4 = 2 6.00 12 5 2x4 / 2x4 || 2x4 || 0-0-8 0-0-8 3-10-8 7-9-8 3-10-0 3-11-0

Plate Offsets (X,Y)-[2:0-2-0,0-2-4]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.35 BC 0.11 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT) -(in (loc) n/a - n/a - -0.00 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	, ,				Weight: 20 lb	FT = 10%

LUMBER-TOP CHORD

2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 2x3 SPF No 2 WFBS

BRACING-TOP CHORD BOT CHORD

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

except end verticals, and 2-0-0 oc purlins: 2-3. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=7-9-0, 4=7-9-0, 5=7-9-0

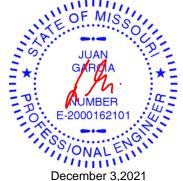
Max Horz 1=48(LC 9)

Max Uplift 1=-8(LC 12), 4=-15(LC 9)

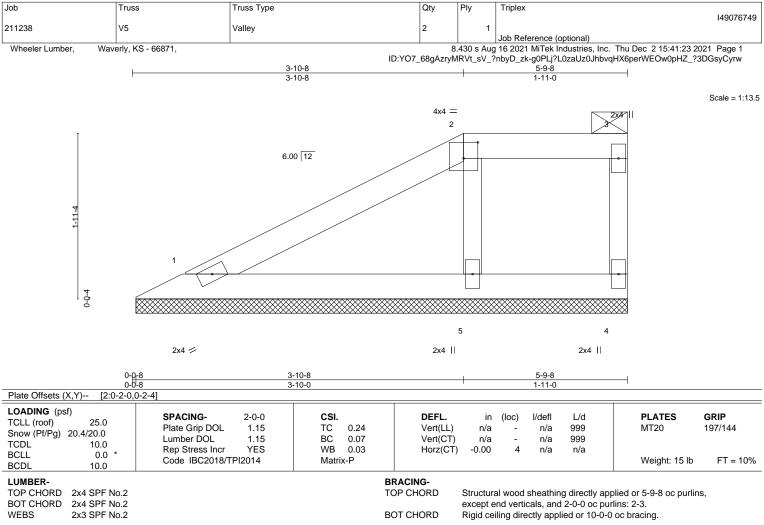
Max Grav 1=172(LC 33), 4=195(LC 32), 5=328(LC 2)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







REACTIONS.

(size) 1=5-9-0, 4=5-9-0, 5=5-9-0

Max Horz 1=48(LC 9)

Max Uplift 1=-6(LC 12), 4=-12(LC 9)

Max Grav 1=174(LC 33), 4=84(LC 32), 5=241(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job Truss Truss Type Qty Ply Triplex 149076750 211238 V6 Valley 2 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:24 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-8CzjxKLejucqeTGnSXomf0A0FejvlG1iCfomolyCyrv

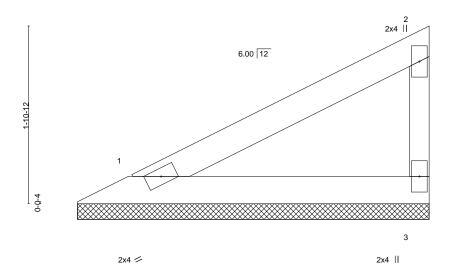
Structural wood sheathing directly applied or 3-9-8 oc purlins,

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

except end verticals

3-9-8

Scale = 1:12.3



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.09 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a -0.00	(loc) - - 3	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	(,					Weight: 9 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

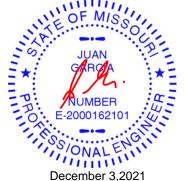
> (size) 1=3-9-0, 3=3-9-0 Max Horz 1=45(LC 9)

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

Max Grav 1=143(LC 18), 3=143(LC 18)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076751 211238 V8 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:25 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-cOX58gMGUCkhGdr_0FJ?BEj9a12XUi9sRJYJLkyCyru 3-10-8 10-9-0 11-9-8 3-10-8 1-0-8

Scale = 1:19.7

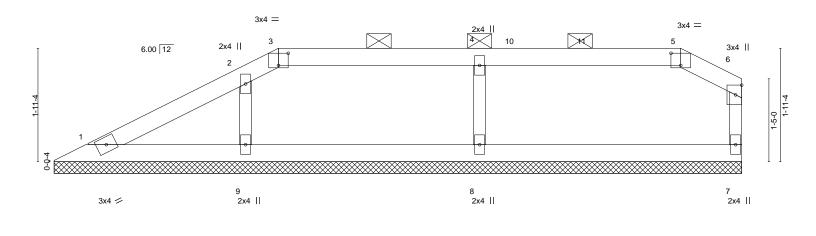


Plate Offsets (X,Y) [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]										
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.13 WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IBC2018/TPI2014	Matrix-S						Weight: 30 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

11-9-8 11-9-8

LUMBER-

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x3 SPF No 2

WFBS

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 11-9-0. (lb) -Max Horz 1=38(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 8=476(LC 35), 9=291(LC 51)

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

WEBS 4-8=-388/75

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 9.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

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



Job Truss Truss Type Qty Ply Triplex 149076752 211238 V9 **GABLE** Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:26 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-4b4UL0NuFVsYtnQAayqEkRGLRROqDA??gzHttAyCyrt 3-10-8 3-10-8 6-9-0 9-9-8

2-10-8

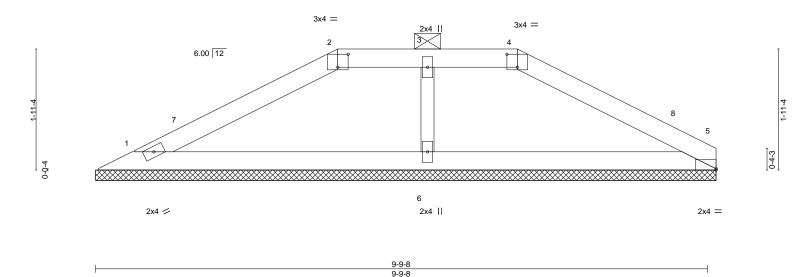
Scale = 1:18.4

3-0-8

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

2-0-0 oc purlins (6-0-0 max.): 2-4.

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



		0 0 0							
Plate Offsets (X,Y) [2:0-2-0,	0-2-8], [4:0-2-0,0-2-8], [5:0-0-0,0-0-4]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.19 BC 0.19 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I n/a n/a 0.00	(loc) I - - 5	l/defl n/a n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-S						Weight: 24 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x3 SPF No 2 OTHERS

(size) 1=9-11-3, 5=9-11-3, 6=9-11-3

Max Horz 1=20(LC 12)

Max Uplift 1=-23(LC 12), 5=-24(LC 13)

Max Grav 1=312(LC 36), 5=310(LC 36), 6=300(LC 35)

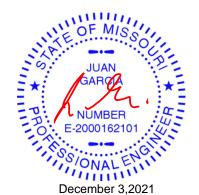
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-379/54, 2-3=-281/55, 3-4=-281/55, 4-5=-366/50

BOT CHORD 1-6=-25/281, 5-6=-25/281

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







149076753 211238 V10 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:12 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-UuEBPEC6YC6XCdLUl0ayAUhzzoeYxqcxSou7O_yCys5 3-3-12 3-3-12 3-3-12 Scale = 1:12.9 4x4 = 2 6.00 12 0-0-4 J-0-6 2x4 || 2x4 / 2x4 < LOADING (psf) CSI. GRIP SPACING-2-0-0 DEFL. in (loc) I/defI I/d **PLATES** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.06 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.03 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-P Weight: 15 lb FT = 10% BCDL 10.0 LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x3 SPF No.2 **OTHERS**

Qty

Ply

Triplex

BOT CHORD

REACTIONS. (size) 1=6-6-8, 3=6-6-8, 4=6-6-8

Truss

Truss Type

Max Horz 1=17(LC 12)

Max Uplift 1=-11(LC 12), 3=-14(LC 13)

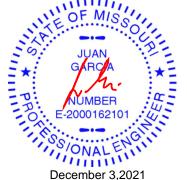
Max Grav 1=126(LC 2), 3=126(LC 2), 4=231(LC 2)

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

NOTES-

Job

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076754 V11 Valley 3 211238 Job Reference (optional)

14-0-0

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:13 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-z5oZdaDkJWEOpnwgJk5BiiD5NCyBgEo5hSehwRyCys4

6.00 12 0-8-8 10 8 7 6

Scale = 1:41.1

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.34 BC 0.16 WB 0.23	Vert(CT)	in (loc) n/a - n/a - 0.00 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-R	11012(01) -0.	5.00 0	TI/A	11/4	Weight: 48 lb	FT = 10%

LUMBER-

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

2x3 SPF No 2 WFBS 2x3 SPF No.2 OTHERS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 14-0-0.

(lb) -Max Horz 10=214(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 10, 6, 7, 8, 9

3x6 II

Max Grav All reactions 250 lb or less at joint(s) 10, 6 except 7=478(LC 5), 8=389(LC 3), 9=318(LC 25)

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

WEBS 4-7=-313/90, 3-8=-282/98

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6, 7, 8, 9.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



December 3,2021



Job	Truss	Truss Type	Qty	Ply	Triplex	
		l			149076755	,
211238	V12	Valley	3	1	l	
			1		Inh Reference (ontional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:14 2021 Page 1

Scale = 1:34.1

ID:YO7_68gAzryMRVt_sV_?nbyD_zk-RHMxqwEN4pMFRxVstRdQFvmIBcInPj0Ev6NETtyCys3 11-5-0

2x4 || 6.00 12 2x4 || 2x4 || 2

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.14 WB 0.10	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	,					Weight: 34 lb	FT = 10%

LUMBER-

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

2x3 SPF No.2 WFBS 2x3 SPF No.2 OTHERS

BRACING-

6

2x4 ||

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

52x4 ||

except end verticals.

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

REACTIONS. All bearings 11-4-8.

Max Horz 1=157(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=440(LC 5), 7=333(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-6=-318/99, 2-7=-253/87

3x4 /

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

2x4 ||

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5, 6, 7.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

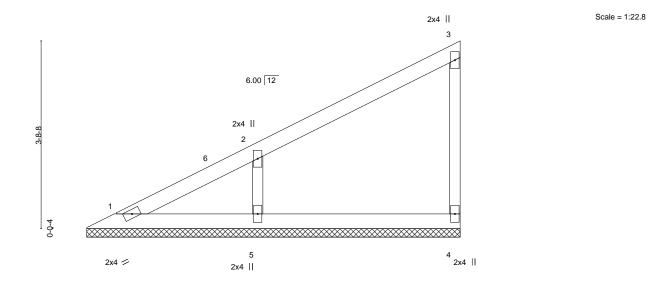


December 3,2021



Job	Truss	Truss Type	Qty	Ply	Triplex
					149076756
211238	V13	Valley	3	1	
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS - 66871,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:14 2021 Page 1
		ID:YO7_6	8gAzryMF	RVt_sV_?n	byD_zk-RHMxqwEN4pMFRxVstRdQFvml9cJOPkgEv6NETtyCys3
		7-5-0	- •		

7-5-0



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.10 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	, ,					Weight: 21 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WFBS 2x3 SPF No 2 OTHERS

REACTIONS. (size) 1=7-4-8, 4=7-4-8, 5=7-4-8

Max Horz 1=98(LC 11)

Max Uplift 4=-7(LC 12), 5=-51(LC 12)

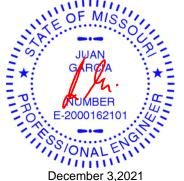
Max Grav 1=83(LC 26), 4=158(LC 18), 5=398(LC 18)

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

WEBS 2-5=-313/102

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



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

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

except end verticals.



Job Truss Truss Type Qty Ply Triplex 149076757 211238 V14 Valley 3 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

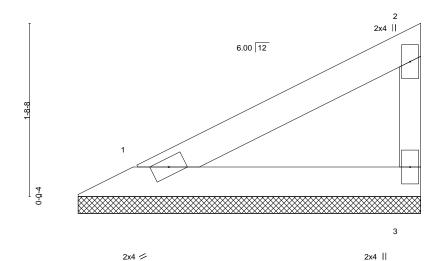
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:15 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-vTwJ2GE?r7U63543R98fn7JUE?f98BpN8m7o?JyCys2

Structural wood sheathing directly applied or 3-5-0 oc purlins,

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

except end verticals

Scale = 1:11.4



LOADING (psf) CSI. **PLATES** GRIP SPACING-2-0-0 DEFL. in (loc) I/defI L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.07 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-P Weight: 8 lb FT = 10% BCDL 10.0

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

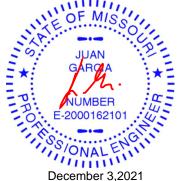
> (size) 1=3-4-8, 3=3-4-8 Max Horz 1=39(LC 9)

Max Uplift 1=-1(LC 12), 3=-11(LC 12)

Max Grav 1=123(LC 18), 3=123(LC 18)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



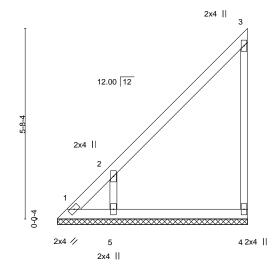


Job	Truss	Truss Type	Qty	Ply	Triplex
					149076758
211238	V15	Valley	2	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:16 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-NgUiFbFdcRczgEfF_sfuKKrdsP?tteFXNPsLXmyCys1

5-8-4

Scale = 1:34.4



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.10 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	, ,					Weight: 20 lb	FT = 10%

LUMBER-

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

2x3 SPF No 2 WFBS 2x3 SPF No 2 **OTHERS**

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins,

except end verticals.

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

REACTIONS. (size) 1=5-8-0, 4=5-8-0, 5=5-8-0

Max Horz 1=147(LC 7)

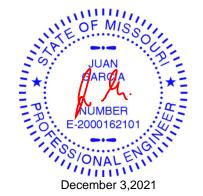
Max Uplift 1=-98(LC 8), 4=-44(LC 7), 5=-136(LC 10) Max Grav 1=127(LC 10), 4=160(LC 21), 5=379(LC 21)

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

WEBS 2-5=-298/185

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=136.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Triplex
044000					149076759
211238	V16	Valley	2	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:16 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-NgUiFbFdcRczgEfF_sfuKKrcWP_cte2XNPsLXmyCys1

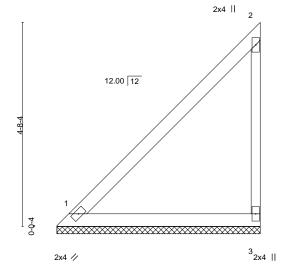
Structural wood sheathing directly applied or 4-8-4 oc purlins,

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

except end verticals

4-8-4 4-8-4

Scale = 1:26.4



LOADING (psf) SPACING-CSI. DEFL. PLATES GRIP 2-0-0 in (loc) I/defI I/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.18 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a 0.0 * **BCLL** Code IBC2018/TPI2014 Matrix-P Weight: 16 lb FT = 10% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x3 SPF No.2 WFBS

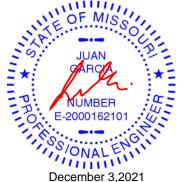
(size) 1=4-8-0, 3=4-8-0

Max Horz 1=119(LC 7) Max Uplift 3=-43(LC 7)

Max Grav 1=196(LC 22), 3=208(LC 21)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	Triplex
044000	V17				149076760
211238	V17	Valley	2	1	Joh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:17 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-rs24TxGFNkkqlOERYZA7tYOphpL4c5lgb3cu3CyCys0

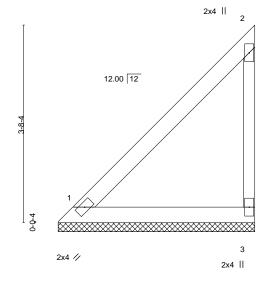
Structural wood sheathing directly applied or 3-8-4 oc purlins,

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

except end verticals.

3-8-4 3-8-4

Scale = 1:21.5



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.20 BC 0.10 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDI 10.0	Code IBC2018/TPI2014	Matrix-P	, ,					Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WFBS

REACTIONS. (size) 1=3-8-0, 3=3-8-0

Max Horz 1=91(LC 9) Max Uplift 3=-33(LC 7)

Max Grav 1=149(LC 22), 3=159(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





December 3,2021

Job	Truss	Truss Type	Qty	Ply	Triplex
211238	1/40	Velley		_	I49076761
211230	V18	Valley	2	'	Joh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:18 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-J2bSgHHt82shwYoe6HhMPlx06DhBLYYqqjLSceyCys?

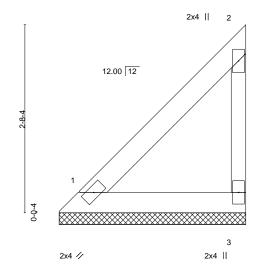
Structural wood sheathing directly applied or 2-8-4 oc purlins,

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

except end verticals

2-8-4

Scale = 1:16.5



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.05 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	, ,					Weight: 8 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WFBS

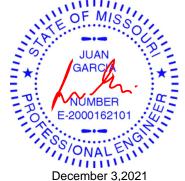
REACTIONS. (size) 1=2-8-0, 3=2-8-0

Max Horz 1=63(LC 9) Max Uplift 3=-23(LC 7)

Max Grav 1=103(LC 22), 3=110(LC 21)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	Triplex
044000	V10	Valler			149076762
211238	V19	Valley	2	1	Joh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:18 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-J2bSgHHt82shwYoe6HhMPlx15DhiLYYqqjLSceyCys?

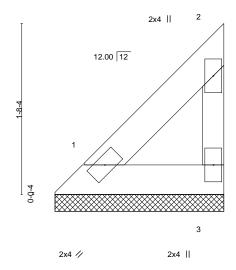
Structural wood sheathing directly applied or 1-8-4 oc purlins,

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

except end verticals.

1-8-4

Scale = 1:11.4



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.02 BC 0.01 WB 0.00	Vert(LL) n/a - Vert(CT) n/a -	defl L/d n/a 999 n/a 999 n/a n/a		GRIP 197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-P	, ,		Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WFBS

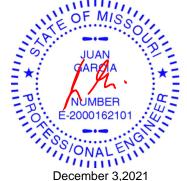
REACTIONS. (size) 1=1-8-0, 3=1-8-0

Max Horz 1=34(LC 9) Max Uplift 3=-13(LC 7)

Max Grav 1=57(LC 22), 3=60(LC 21)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076763 211238 V20 Valley 3 Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:20 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-FRjC5zl7gf6P9sy0DikqUA0Ke0MnpSA7l1qYfXyCyrz

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

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

except end verticals.

Scale = 1:22.5

2x4 || 3 6.00 12 2x4 || 0-0-4 5 2x4 / 2x4 || 2x4 ||

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.10 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	11012(01)	0.00 -	11/4	11/4	Weight: 20 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x3 SPF No 2 WFBS **OTHERS** 2x3 SPF No.2

(size) 1=7-3-8, 4=7-3-8, 5=7-3-8

Max Horz 1=97(LC 9)

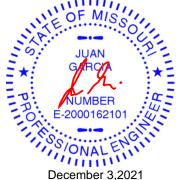
Max Uplift 4=-7(LC 12), 5=-50(LC 12)

Max Grav 1=79(LC 26), 4=158(LC 18), 5=396(LC 18)

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

WEBS 2-5=-312/101

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Triplex 149076764 211238 V21 Valley 3 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

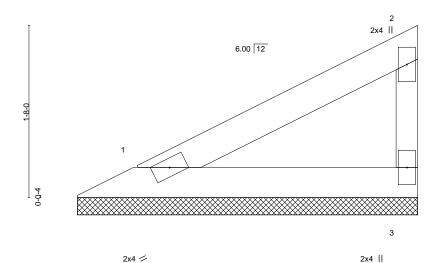
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 15:41:20 2021 Page 1 ID:YO7_68gAzryMRVt_sV_?nbyD_zk-FRjC5zI7gf6P9sy0DikqUA0M60NNpS27l1qYfXyCyrz

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

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

except end verticals

Scale = 1:11.1



LOADING (psf) CSI. **PLATES** GRIP SPACING-2-0-0 DEFL. in (loc) I/defI L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.06 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-P Weight: 8 lb FT = 10% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

> (size) 1=3-3-8, 3=3-3-8 Max Horz 1=38(LC 9)

Max Uplift 1=-1(LC 12), 3=-11(LC 12)

Max Grav 1=119(LC 18), 3=119(LC 18)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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 3-6-0 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) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



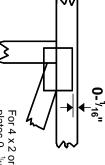


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE



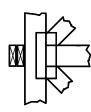
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Min size shown is for crushing only

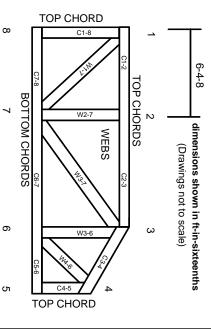
Industry Standards:

National Design Specification for Metal

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.