

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/15/2022 4.54.31

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 3008835

C&H/157 Cobey Creek/MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I49264468 thru I49264502

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



December 15,2021

Sevier, Scott

,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 C&H/157 Cobey Creek/MO 149264468 3008835 GABLE COMMON A1 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

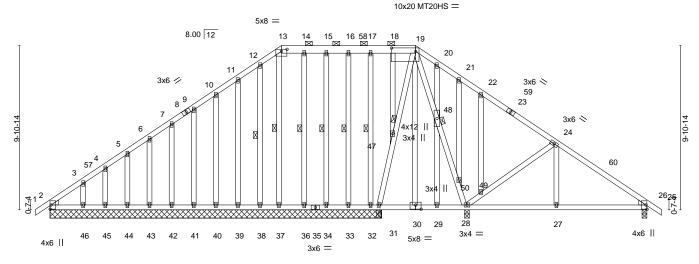
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:43 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-xtUe9XQxk8jwPQ7aZ6kgHwuHx5laRkkCk5ARE_y9?XQ

18-0-0 28-11-15 30-6-9 36-0-0 36-10₋8 0-10-8 22-0-9 7-0-1 6-11-6 4-0-9 3-10-3 1-6-9

Scale = 1:69.5

36-0-0

13-37, 16-33, 15-34, 14-36, 12-38, 17-32



7-0-1 6-11-6 3-1-3 5-4-13 6-0-9 2-0-9 Plate Offsets (X,Y)--[13:0-4-0,0-1-9], [19:1-5-8,0-2-8], [30:0-4-0,0-3-0] 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 0.30 Vert(LL) -0.02 27-28 >999 240 MT20 197/144

20-0-0

22-0-9

25-1-12

30-6-9

Structural wood sheathing directly applied, except

2-0-0 oc purlins (10-0-0 max.): 13-19.

Rigid ceiling directly applied.

1 Brace at Jt(s): 47, 48

1 Row at midpt

Snow (Pf) 20.0 MT20HS 148/108 Lumber DOL 1.15 BC 0.23 Vert(CT) -0.03 27-56 >999 180 TCDL 10.0 WB Rep Stress Incr YES 0.37 Horz(CT) 0.01 25 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 275 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

JOINTS

10.0 LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 13-19: 2x6 SPF No.2

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

OTHERS 2x4 SPF No.2

WEDGE

BCDL

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

All bearings 20-0-0 except (jt=length) 25=0-3-8, 28=0-3-8. REACTIONS.

Max Horz 2=-260(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 31, 33, 34, 36, 38, 39, 40, 41, 42, 43, 44, 45, 32 except 25=-119(LC 15), 28=-238(LC 15), 46=-123(LC 14) Max Grav All reactions 250 lb or less at joint(s) 2, 37, 31, 31, 33, 34, 36, 38, 39,

13-11-7

40, 41, 42, 43, 44, 45, 46, 32, 2 except 25=519(LC 2), 28=815(LC 2)

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

TOP CHORD 24-25=-506/128

BOT CHORD 27-28=-0/354, 25-27=-0/354

WEBS 28-50=-565/259, 24-50=-500/218, 28-49=-333/83

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 13-11-7, Exterior(2R) 13-11-7 to 19-4-0, Interior(1) 19-4-0 to 22-2-14, Exterior(2R) 22-2-14 to 27-3-15, Interior(1) 27-3-15 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 20.0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 31, 33, 34, 36, 38, 39, 40, 41, 42, 43, 44, 45, 32, 2 except (jt=lb) 25=119, 28=238, 46=123.



December 15,2021

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 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, erection and bracing of trusses sand 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	C&H/157 Cobey Creek/MO
					149264468
3008835	A1	GABLE COMMON	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:43 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-xtUe9XQxk8jwPQ7aZ6kgHwuHx5laRkkCk5ARE_y9?XQ

NOTES-

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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 C&H/157 Cobey Creek/MO 149264469 3008835 A2 PIGGYBACK BASE 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:50 2021 Page 1

22-0-9

18-0-0

4-0-9

13-11-7

6-11-6

13-11-7

6-11-6

Scale = 1:67.9

36-10₁8 0-10-8

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30-6-9

1-6-9

36-0-0

28-11-15

3-10-3

30-6-9 5-4-13

Structural wood sheathing directly applied, except

2-15, 5-13, 5-11, 4-13

2-0-0 oc purlins (10-0-0 max.): 4-5.

Rigid ceiling directly applied.

1 Row at midpt

25-1-12

25-1-12

3-1-3

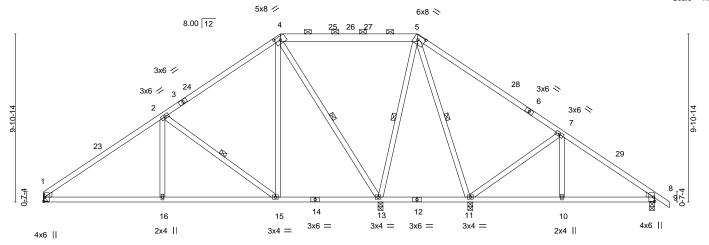


Plate Offsets (X,Y)--[4:0-4-0,0-2-6], [5:0-5-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) 0.06 16-19 >999 240 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.10 16-19 >999 180 TCDL 10.0 WB Rep Stress Incr YES 0.54 Horz(CT) 0.02 13 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 167 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

19-10-4

5-10-13

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

7-0-1

Max Horz 1=-253(LC 12) (lb) -

Max Uplift All uplift 100 b or less at joint(s) except 1=-160(LC 14), 8=-113(LC 15),

11=-229(LC 15), 13=-198(LC 14)

Max Grav All reactions 250 lb or less at joint(s) except 1=809(LC 32), 8=459(LC 33), 11=768(LC 33), 13=1378(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1047/225, 2-4=-501/197, 4-5=0/288, 5-7=0/431, 7-8=-409/134

BOT CHORD 1-16=-232/814, 15-16=-232/814, 13-15=-125/321, 10-11=-18/308, 8-10=-18/308 **WEBS** 2-16=0/288, 2-15=-638/279, 4-15=-103/496, 7-11=-622/291, 5-13=-472/83,

5-11=-340/111, 4-13=-943/233

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-7-3, Interior(1) 3-7-3 to 13-11-7, Exterior(2R) 13-11-7 to 19-0-9, Interior(1) 19-0-9 to 22-0-9, Exterior(2R) 22-0-9 to 27-1-11, Interior(1) 27-1-11 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 1, 113 lb uplift at joint 8, 229 lb uplift at joint 11 and 198 lb uplift at joint 13.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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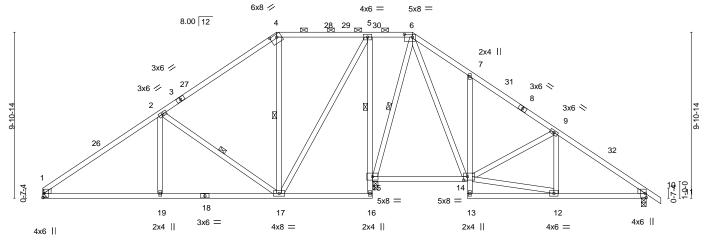


Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264470 3008835 A3 PIGGYBACK BASE 9 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:52 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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Scale = 1:68.7



		7-0-1	6-11-6	5-8-9	0 0 4 0 2 0 - 9	3-3-7	5-3-11	5-4-5	
Plate Offsets (X,	Y) [4:0-4	-12,0-2-0], [6:0-5-	12,0-2-0], [14:0-2-12,	0-2-8]					
- (/	25.0 20.0 10.0	SPACING- Plate Grip Lumber DC Rep Stress	DOL 1.15 DL 1.15	CSI. TC 0.47 BC 0.39 WB 0.42	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.06 19-22 -0.10 17-19 0.02 15		PLATES MT20	GRIP 197/144
BCLL	0.0 10.0	Code IRC2	2018/TPI2014	Matrix-AS				Weight: 184 lb	FT = 20%

20-0-0 22-0-9

BRACING-

TOP CHORD

BOT CHORD

WEBS

25-4-0

30-7-11

Structural wood sheathing directly applied, except

2-17, 4-17, 6-15

2-0-0 oc purlins (6-0-0 max.): 4-6.

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

36-0-0

19-8-0

LUMBER-TOP CHORD 2x4 SPF No 2

2x4 SPF No 2 **BOT CHORD** 2x4 SPF No 2 WFBS

WEDGE Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

(size) 1=Mechanical, 15=0-3-8, 10=0-3-8

Max Horz 1=-254(LC 12)

7-0-1

Max Uplift 1=-196(LC 14), 15=-152(LC 14), 10=-258(LC 15) Max Grav 1=833(LC 32), 15=1764(LC 2), 10=734(LC 33)

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

TOP CHORD 1-2=-1091/285, 2-4=-527/289, 4-5=-312/277, 5-6=-82/309, 6-7=-555/490, 7-9=-539/356,

13-11-7

9-10=-863/357

BOT CHORD 1-19=-282/849, 17-19=-282/849, 5-15=-1028/236, 7-14=-327/208, 10-12=-189/645 **WEBS** 2-19=0/293, 2-17=-653/281, 12-14=-172/629, 9-14=-362/165, 6-15=-649/83,

6-14=-288/768, 5-17=-171/815

NOTES-

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-7-3, Interior(1) 3-7-3 to 13-11-7, Exterior(2R) 13-11-7 to 19-0-9, Interior(1) 19-0-9 to 22-0-9, Exterior(2R) 22-0-9 to 27-1-11, Interior(1) 27-1-11 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 1, 152 lb uplift at joint 15 and 258 lb uplift at joint 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021



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Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264471 3008835 Piggyback Base 3 A4 Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:53 2021 Page 1

19-8-0

5-8-9

Valley Center, KS - 67147,

6-11-6

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-eo5QFyYDND_VcyuV9Cv0g1lwt72dnDog1ebzbPy9?XG 22-0-9 2-4-9 25-4-0 30-7-11 36-0-0 36-10₋8 0-10-8 3-3-7 5-3-11

Structural wood sheathing directly applied, except

6-16

3-18

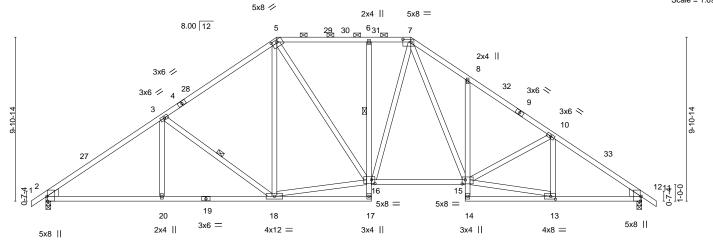
2-0-0 oc purlins (4-2-3 max.): 5-7.

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

Scale = 1:69.6



1	7-0-1	13-11-7	19-8-0	22-0-9	25-4-0	30-7-11	36-0-0
	7-0-1	6-11-6	5-8-9	2-4-9	3-3-7	5-3-11	5-4-5
Plate Offsets (X,Y)	[2:0-3-8.Edge], [5:0-4-0.0)-1-9], [7:0-5-12.0-2-0], [11:0-	3-8.Edgel. [13:0-3-8.0-2	2-01. [15:0-2	2-4.0-3-0]. [16	5:0-2-8.0-2-121	

	(,-,	,	,	-1, [, = - 3 - 1, [,, [,	1, [,			
LOADING (p TCLL (roof) Snow (Pf) TCDL	25.0 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.52 0.69	DEFL. Vert(LL) Vert(CT)	in -0.14 -0.28		l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.46 x-AS	Horz(CT)	0.12	11	n/a	n/a	Weight: 191 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD 2x4 SPF No 2 WFBS

WEDGE

REACTIONS.

BOT CHORD

Left: 2x6 SPF No.2, Right: 2x6 SPF No.2

7-0-1 7-0-1

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=-259(LC 12)

Max Uplift 2=-286(LC 14), 11=-286(LC 15) Max Grav 2=1681(LC 2), 11=1681(LC 2)

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

TOP CHORD 2-3=-2412/401, 3-5=-1917/381, 5-6=-1693/359, 6-7=-1694/358, 7-8=-2406/547,

8-10=-2414/412, 10-11=-2429/403 2-20=-377/1901, 18-20=-377/1901, 6-16=-331/155, 15-16=-89/1601, 8-15=-349/209,

11-13=-226/1928

WEBS 3-20=0/255, 3-18=-582/273, 5-18=-78/307, 16-18=-151/1449, 5-16=-132/531,

13-15=-216/1859, 10-13=-313/83, 7-16=-176/478, 7-15=-299/884

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 13-11-7, Exterior(2R) 13-11-7 to 19-0-9, Interior(1) 19-0-9 to 22-0-9, Exterior(2R) 22-0-9 to 27-1-11, Interior(1) 27-1-11 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 286 lb uplift at joint 11.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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 C&H/157 Cobey Creek/MO 149264472 3008835 Piggyback Base A4A Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:55 2021 Page 1

30-7-11

Structural wood sheathing directly applied, except

8-18

3-24, 5-24

2-0-0 oc purlins (3-9-1 max.): 5-9.

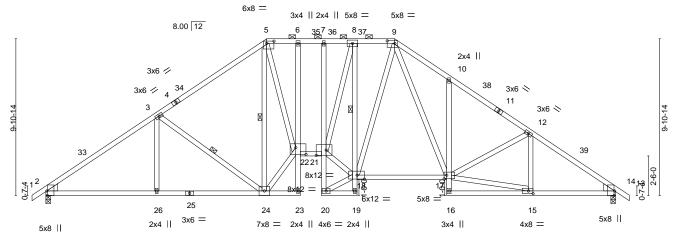
1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-aADAgdaTvqEDsG2uGdyVmSOHcxj6F6fzVy43fHy9?XE -0-10₇8 0-10-8 16-1-0 17-5-0 19-8-0 22-0-9 2-1-9 1-4-0 2-3-0 2-4-9 25-4-0 30-7-11 36-0-0 6-11-6 3-3-7 5-3-11

Scale = 1:72.8



	7-0-1	6-11-6	' 2-1-9 '1-4-0' :	2-3-0 ' 2-4-9 '	3-3-7	5-3-11	5-4-5	
Plate Offsets (X,Y) [2:0	·3-8,Edge], [5:0-5-8,0-1-12	2], [9:0-5-12,0-2	-0], [13:0-3-8,Edge], [15:0)-3-8,0-2-0], [17:0	-2-0,0-2-12], [1	8:0-5-8,0-3-0], [21:0	-7-8,0-4-0], [22:0-7-12	,0-5-4]
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.51	DEFL. Vert(LL)	in (loc) -0.21 21	l/defl L/d >999 240	PLATES MT20	GRIP 197/144

16-1-0 17-5-0 19-8-0 22-0-9 25-4-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

Lumber DOL 0.76 Vert(CT) 1.15 BC -0.3821 >999 180 **TCDL** 10.0 WB Rep Stress Incr YES 0.56 Horz(CT) 0.24 13 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 220 lb FT = 20% BCDL 10.0

LUMBER-

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

BOT CHORD 2x4 SPF No 2 WFBS

WEDGE

REACTIONS.

Left: 2x6 SPF No.2, Right: 2x6 SPF No.2

(size) 2=0-3-8, 13=0-3-8

Max Horz 2=-259(LC 12)

Max Uplift 2=-286(LC 14), 13=-286(LC 15) Max Grav 2=1681(LC 2), 13=1681(LC 2)

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

TOP CHORD $2\text{-}3\text{=-}2412/400,\ 3\text{-}5\text{=-}1914/380,\ 5\text{-}6\text{=-}2021/407,\ 6\text{-}7\text{=-}2043/406,\ 7\text{-}8\text{=-}2050/403,\ 3\text{-}6\text{=-}2021/407,\ 6\text{-}7\text{=-}2043/406,\ 7\text{-}8\text{=-}2050/403,\ 7\text{-}8\text{=-}2050/403,$

8-9=-1689/357, 9-10=-2397/547, 10-12=-2412/412, 12-13=-2429/403

BOT CHORD 2-26=-377/1902, 24-26=-377/1902, 6-22=-355/153, 21-22=-184/2039, 8-18=-1493/270,

17-18=-90/1606, 10-17=-343/209, 13-15=-226/1928

WEBS 3-26=0/259, 3-24=-581/272, 5-24=-1286/138, 22-24=-225/2288, 5-22=-83/1976,

15-17=-216/1847, 12-15=-311/83, 9-18=-155/439, 9-17=-300/861, 18-21=-153/2115,

13-11-7

8-21=-222/1314

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 13-11-7, Exterior(2R) 13-11-7 to 19-0-9, Interior(1) 19-0-9 to 22-0-9, Exterior(2R) 22-0-9 to 27-1-11, Interior(1) 27-1-11 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 286 lb uplift at ioint 13.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021





Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264473 3008835 Piggyback Base 7 A5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:56 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-7-11

4-8-5

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-2NnYtzb5g8M4TPd4qKTklgwPuK2p_Yl6jcqdCky9?XD 18-0-0 26-11-8 33-6-5 36-0-0 36-10₋8 2-5-11 0-10-8 0-9-15 4-0-9 4-0-9 5-8-14

Structural wood sheathing directly applied, except

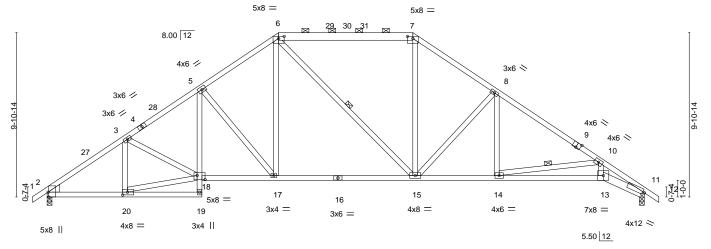
6-15. 10-14

2-0-0 oc purlins (4-8-13 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:69.4



1	4-8-5	9-4-0	13-11-7	22-0-9	26-11-8	27-9-7	33-6-5	36-0-0
	4-8-5	4-7-11	4-7-7	8-1-2	4-10-15	0-9-15	5-8-14	2-5-11
Plate Offsets (X,Y)	[2:0-3-8,Edge],	[6:0-4-0,0-1-9], [7:0)-4-0,0-1-9], [9:0-3-0	0,Edge], [11:0-1-4,0-1-11], [18:0-5	5-12,0-3-0], [20:0-	-3-8,0-2-0]		

	.,,,	, 3 - 1, [], [-1, [,,	.,	
LOADING (ps TCLL (roof) Snow (Pf) TCDL	25.0 20.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.67 BC 0.79 WB 0.64	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.20 13-14 >999 240 MT20 197/144 Vert(CT) -0.41 15-17 >999 180 Horz(CT) 0.22 11 n/a n/a	
BCLL BCDL	0.0 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 182 lb FT = 20	0%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 6-7: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

11-13: 2x6 SPF 2100F 1.8E, 13-16: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x6 SPF No.2

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

Max Horz 2=-258(LC 12)

Max Uplift 2=-286(LC 14), 11=-286(LC 15) Max Grav 2=1681(LC 2), 11=1681(LC 2)

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

TOP CHORD 2-3=-2425/402, 3-5=-2556/470, 5-6=-2070/418, 6-7=-1636/377, 7-8=-2086/396,

8-10=-2647/422, 10-11=-4695/724

BOT CHORD 2-20=-408/1929, 5-18=-97/434, 17-18=-347/2067, 15-17=-171/1642, 14-15=-161/2138,

13-14=-542/3679, 11-13=-567/4003

WEBS 5-17=-666/268, 6-17=-140/661, 7-15=-100/655, 10-14=-1561/386, 10-13=-92/1204,

3-20=-402/131, 18-20=-401/1825, 8-14=-27/404, 8-15=-718/268

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 13-11-7, Exterior(2R) 13-11-7 to 19-0-9, Interior(1) 19-0-9 to 22-0-9, Exterior(2R) 22-0-9 to 27-1-4, Interior(1) 27-1-4 to 36-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat C; 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 20.0 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 286 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021



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	C&H/157 Cobey Creek/MO
					149264473
3008835	A5	Piggyback Base	7	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:57 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-WZKx5JbjRRUx5ZCGO2_zrtTadkN2j??GyGZAkAy9?XC

NOTES-

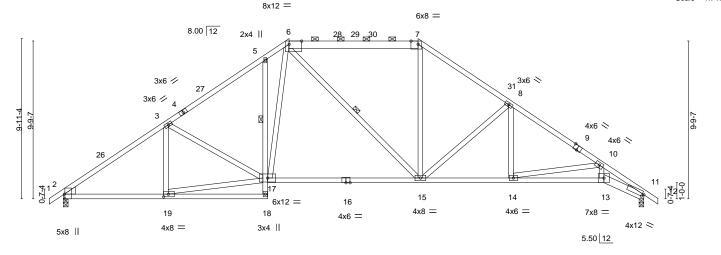
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264474 3008835 A6 Hip Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:58 2021 Page 1

Valley Center, KS - 67147,

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-_luJlfcMClcojjnTxIVCN50oq8kkSPTPBwJkGcy9?XB 22-0-0 27-9-3 33-6-5 36-0-0 36-10-8 2-5-11 0-10-8 6-3-11 8-0-0 5-9-3 5-9-3

Scale = 1:71.5



12-8-0 22-0-0 27-9-3 36-0-0 14-0-0 1-4-0 6-4-5 6-3-11 8-0-0 2-5-11 5-9-3 Plate Offsets (X,Y)--[2:0-3-8.Edge], [6:0-9-5.Edge], [7:0-5-5.Edge], [9:0-3-0.Edge], [11:0-1-4.0-1-11], [19:0-3-8.0-2-0]

	,.,	,, [,,	1,	1, [,	3-1, [.,	-,,					
LOADING (ps TCLL (roof) Snow (Pf) TCDL	25.0 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.51 0.76	DEFL. Vert(LL) Vert(CT)	in -0.25 -0.58		I/defl >999 >748	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.81 x-AS	Horz(CT)	0.21	11	n/a	n/a	Weight: 181 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

5-17

6-15

2-0-0 oc purlins (4-10-1 max.): 6-7.

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

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

6-7: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

11-13: 2x6 SPF 2100F 1.8E, 13-16: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x6 SPF No.2

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

Max Horz 2=257(LC 13)

Max Uplift 2=-286(LC 14), 11=-286(LC 15) Max Grav 2=1681(LC 2), 11=1681(LC 2)

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

TOP CHORD 2-3=-2421/401, 3-5=-2235/415, 5-6=-2061/502, 6-7=-1656/378, 7-8=-2105/384,

8-10=-2719/437, 10-11=-4644/706

BOT CHORD 2-19=-384/1914, 15-17=-173/1639, 14-15=-187/2212, 13-14=-516/3625, 11-13=-546/3948 **WEBS**

17-19=-359/1909, 7-15=-84/615, 8-15=-719/272, 8-14=-28/395, 10-14=-1437/335,

10-13=-99/1188, 6-17=-241/792

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 14-0-0, Exterior(2R) 14-0-0 to 19-1-2, Interior(1) 19-1-2 to 22-0-0, Exterior(2R) 22-0-0 to 27-1-2, Interior(1) 27-1-2 to 36-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 286 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum



December 15,2021

Copinguedroin page 2 design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE 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



Job	Truss	Truss Type	Qty	Ply	C&H/157 Cobey Creek/MO
					149264474
3008835	A6	Hip	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:58 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-_luJlfcMClcojjnTxlVCN50oq8kkSPTPBwJkGcy9?XB

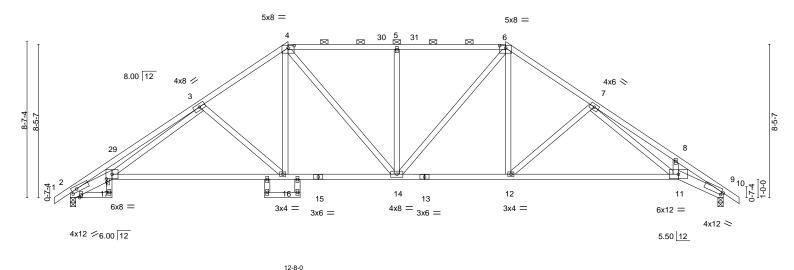
NOTES-

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 C&H/157 Cobey Creek/MO 149264475 3008835 Α7 HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:59 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-TyShW?d_z3kfKtMfVT0RwlYs1Y19BwrZPa2Ho3y9?XA 12-8-0

12-0-0

Scale: 3/16"=1"



2-3-8	8-5-0 1-3-8 0-8-	0 5-4-0	0-0-0	9-6-5	2-5-11
Plate Offsets (X,Y) [2:0-3-9,0-	-2-0], [4:0-4-0,0-1-9], [6:0-4-0,0-1-9]	, [9:0-1-4,0-1-11], [17:0-2	-2,0-0-4]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 YES Code IRC2018/TPI2014	CSI. TC 0.93 BC 0.94 WB 0.55 Matrix-MS	DEFL. in (lo Vert(LL) -0.33 16-1 Vert(CT) -0.76 16-1 Horz(CT) 0.37	7 >999 240	PLATES GRIP MT20 197/144 Weight: 174 lb FT = 20%

BOT CHORD

18-0-0

LUMBER-BRACING-TOP CHORD

2x4 SPF 1650F 1.5E *Except* TOP CHORD 4-6: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

9-11,2-17: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

2-3-8

0-10-8 2-3-8

6-6-0 4-2-8

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

Max Horz 2=-222(LC 12)

Max Uplift 9=-292(LC 15), 2=-292(LC 14) Max Grav 9=1681(LC 2), 2=1681(LC 2)

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

TOP CHORD 2-3=-4950/948, 3-4=-2306/442, 4-5=-2070/393, 5-6=-2070/393, 6-7=-2304/413,

7-8=-4554/805, 8-9=-4681/682 16-17=-444/2305, 14-16=-229/1829, 12-14=-99/1828, 11-12=-248/2307, 9-11=-515/3966,

2-17=-867/4233

WEBS 4-14=-213/509, 5-14=-513/207, 6-14=-213/512, 6-12=-97/600, 7-12=-612/262,

4-16=-118/609, 7-11=-354/1939, 3-16=-623/295, 3-17=-457/2238

NOTES-

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 12-0-0, Exterior(2R) 12-0-0 to 17-1-2, Interior(1) 17-1-2 to 24-0-0, Exterior(2R) 24-0-0 to 28-10-11, Interior(1) 28-10-11 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 9, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 9 and 292 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021



Structural wood sheathing directly applied, except

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

2-0-0 oc purlins (3-6-8 max.): 4-6.

2-2-0 oc bracing: 16-17.

Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264476 3008835 HIP **A8** Job Reference (optional)

6-8-0

18-0-0

5-4-0

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-9-11

10-0-0

3-10-13

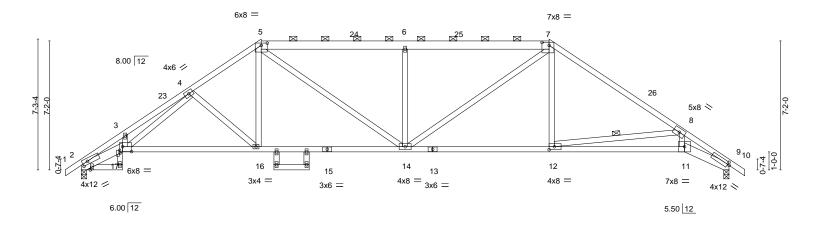
0-8-8 1-11-8

10-8-8 12-8-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:00 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-x803jLeckMsVy1wr3AXgTW50nyOcwO3ieEoqLVy9?X9

33-6-5 36-0-0 36-10-8 2-5-11 0-10-8 7-6-5

Scale: 3/16"=1"



2-3-8	7-8-8 0-8-8 1-11-8	5-4-0	1-4-0	6-8-0	•	7-6-5	2-5-11			
Plate Offsets (X,Y) [2:0-3-9,0-2-0], [5:0-4-0,0-1-9], [7:0-4-12,0-2-0], [9:0-1-3,0-1-12], [12:0-3-8,0-2-0], [17:0-6-0,0-3-4], [17:0-2-0,0-0-4]										
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.99 BC 0.86 WB 0.49 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 14 -0.50 16-17 0.42 9	l/defl L/o >999 240 >858 180 n/a n/s	0	PLATES MT20 Weight: 176 lb	GRIP 197/144 FT = 20%		

LUMBER-BRACING-

2x4 SPF 1650F 1.5E *Except* Structural wood sheathing directly applied, except TOP CHORD TOP CHORD

5-7: 2x6 SPF No.2 2-0-0 oc purlins (4-1-7 max.): 5-7.

BOT CHORD **BOT CHORD** 2x4 SPF No.2 *Except* Rigid ceiling directly applied or 8-9-11 oc bracing. **WEBS**

18-0-0

9-11,2-17: 2x6 SP 2400F 2.0E, 11-13: 2x4 SPF 1650F 1.5E 1 Row at midpt 8-12 **WEBS** 2x4 SPF No.2

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

Max Horz 2=-187(LC 12)

Max Uplift 2=-298(LC 14), 9=-298(LC 15) Max Grav 2=1678(LC 2), 9=1678(LC 2)

10-0-0

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

 $2\text{-}3\text{=-}5255/965,\ 3\text{-}4\text{=-}4626/976,\ 4\text{-}5\text{=-}2464/465,\ 5\text{-}6\text{=-}2564/432,\ 6\text{-}7\text{=-}2564/431,}$ TOP CHORD

7-8=-2550/412, 8-9=-5247/901

BOT CHORD 16-17=-446/2420, 14-16=-318/1984, 12-14=-166/2006, 11-12=-653/3823, 9-11=-735/4440,

2-17=-889/4393

WEBS 8-11=-221/1815, 5-16=-86/535, 7-12=-6/492, 3-17=-52/713, 8-12=-1825/530,

6-14=-701/291, 7-14=-282/831, 5-14=-270/834, 4-16=-553/238, 4-17=-474/1895

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-4, Interior(1) 2-5-4 to 10-0-0, Exterior(2R) 10-0-0 to 15-1-2, Interior(1) 15-1-2 to 26-0-0, Exterior(2R) 26-0-0 to 31-1-2, Interior(1) 31-1-2 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 2, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2 and 298 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021

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 C&H/157 Cobey Creek/MO 149264477 3008835 A9 Hip Job Reference (optional)

5-0-0

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:02 2021 Page 1 13-0-0 18-0-0

5-0-0

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-tW8q81fsG_6DBK4EAba8YxARul5cODY?6YHxPNy9?X7 <u>23-0-0</u> 28-0-0 33-6-5 36-0-0 36-10₋8 2-5-11 0-10-8

5-6-5

33-6-5

36-0-0

FT = 20%

Weight: 167 lb

5-0-0

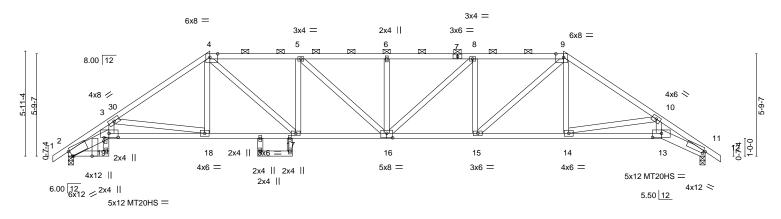
28-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-11-11 max.): 4-9.

Rigid ceiling directly applied.

Scale = 1:65.1



	2-3-8	5-8-8	4-8-0	0-4-0	5-0-0	5-0-0	'	5-0-0	'	5-6-5 2-5-11	
Plate Offsets (X,Y) [2:0-1	-1,Edge], [4:0-5-5,Edge],	[9:0-5-5,Edg	ge], [11:0-1-4,	0-1-11], [13:	:0-6-0,0-2-12], [16:0	-4-0,0-3-0]	, [19:0-6- ⁴	1,0-2-12], [19:0-	2-6,0-0-4]	
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL	25.0 20.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.70 0.83 0.81	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (-0.31 -0.56 16 0.36		99 240	PLATES MT20 MT20HS	GRIP 197/144 148/108
DOLL	0.0	0 ID00040/T	310044							144 1 1 4 407 11	ET 000/

23-0-0

LUMBER-**BRACING-**TOP CHORD

Code IRC2018/TPI2014

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

2-3-8

10.0

16-19,13-16: 2x4 SPF 1650F 1.5E, 11-13,2-19: 2x6 SPF 2100F 1.8E BOT CHORD

2x4 SPF No.2

12-8-0

13-0-0

18-0-0

Matrix-AS

5-0-0

WFBS REACTIONS.

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=-153(LC 12)

Max Uplift 2=-301(LC 14), 11=-301(LC 15) Max Grav 2=1681(LC 2), 11=1681(LC 2)

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

TOP CHORD 2-3=-4895/948, 3-4=-2797/496, 4-5=-3020/543, 5-6=-3275/559, 6-8=-3275/559,

8-9=-3021/521, 9-10=-2788/469, 10-11=-4625/764

18-19=-808/3800, 17-18=-417/2271, 16-17=-553/3018, 15-16=-480/3019, BOT CHORD

14-15=-255/2267, 13-14=-565/3618, 11-13=-598/3931, 2-19=-873/4189 9-14=-33/430, 10-14=-1363/357, 10-13=-114/1154, 3-19=-210/1310, 4-18=-45/431,

3-18=-1537/473, 8-15=-656/247, 6-16=-353/139, 5-17=-655/247, 4-17=-307/1100,

9-15=-304/1104, 8-16=-148/402, 5-16=-147/403

WEBS

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-4, Interior(1) 2-5-4 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior(1) 13-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 33-4-9, Interior(1) 33-4-9 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2 and 301 lb uplift at joint 11.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



ROLLESSIONAL .

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

December 15,2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:44 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-P320MtRaVSrn1Zim7pFvp8ROxV_cA6wLzlw_mQy9?XP

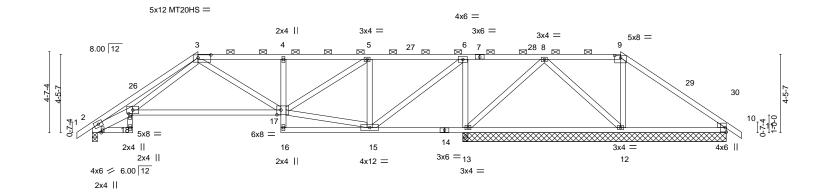
Structural wood sheathing directly applied or 3-4-6 oc purlins, except

2-0-0 oc purlins (5-9-12 max.): 3-9.

Rigid ceiling directly applied or 5-6-4 oc bracing.

0-10-8 2-3-8 3-8-8 25-3-0

Scale = 1:65.4



					21-4-0				
2-3-8	6-0-0	10-8-8	15-9-0	20-4-4	20 ₁ 6-0	25-3-0	30-0-0	36-0-0	1
2-3-8	3-8-8	4-8-8	5-0-8	4-7-4	0-1 12	3-11-0	4-9-0	6-0-0	7
					0-10-0				

			0-10-0	
Plate Offsets (X,Y) [3:	0-8-12,0-2-0], [9:0-4-0,0-1-9], [17:0-2-12,0-	-3-4], [18:0-1-14,0-1-0]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.54 BC 0.62 WB 0.69	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.20 17-18 >999 240 MT20 197/14- Vert(CT) -0.44 17-18 >571 180 MT20HS 148/108 Horz(CT) 0.08 13 n/a n/a n/a n/a	
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MS	Weight: 155 lb FT = 2	20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

2x4 SPF No.2 *Except* 2-18: 2x6 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 14-11-8 except (jt=length) 2=0-3-8.

Max Horz 2=-118(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-185(LC 14), 10=-216(LC

15), 13=-400(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 12 except 2=802(LC 2), 10=463(LC

27), 13=2139(LC 2), 13=1902(LC 1), 10=370(LC 1)

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

TOP CHORD 2-3=-2179/502, 3-4=-932/274, 4-5=-905/274, 6-8=-212/1043, 8-9=-284/282,

9-10=-399/271

BOT CHORD 17-18=-214/857, 4-17=-368/156, 13-15=-1043/258, 12-13=-353/97, 2-18=-418/1861 **WEBS** 3-18=-227/1161, 5-15=-851/251, 5-17=-195/892, 6-13=-1268/346, 6-15=-332/1472,

8-12=-156/614, 8-13=-1050/220

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE\ 7-16; \ Vult=115mph\ (3-second\ gust)\ \ Vasd=91mph; \ TCDL=6.0psf; \ BCDL=4.2psf; \ h=25ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ Encl$ MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-8-11, Interior(1) 2-8-11 to 6-0-0, Exterior(2R) 6-0-0 to 10-10-4, Interior(1) 10-10-4 to 30-0-0, Exterior(2R) 30-0-0 to 35-1-2, Interior(1) 35-1-2 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=185, 10=216, 13=400, 10=216.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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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December 15,2021



Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264479 3008835 A11 Hip Girder Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-2-8

16-0-6

5-3-14

16-0-6

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:47 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-pek9_uUSoNDLu1RLoxocRm3uHiyGNTtofi8eNly9?XM 21-4-4 0-2-0 32-0-0 36-0-0 36-10₋8 0-10-8 26-8-0 4-0-0

32-0-0

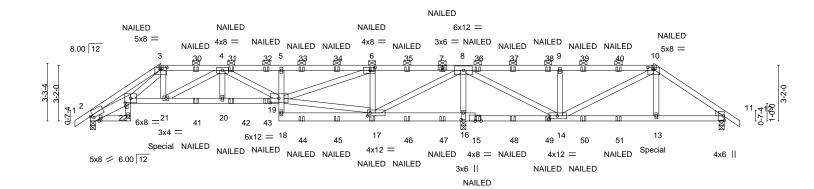
Structural wood sheathing directly applied or 3-1-9 oc purlins, except

2-0-0 oc purlins (3-8-11 max.): 3-10.

Rigid ceiling directly applied or 3-6-0 oc bracing.

36-0-0

Scale = 1:65.4



	2-3-8	1-8-8	3-6-0	3-2-8	5-3-14	5-1-14	0-2-0	5-3-12	5-4-0	4-0-0	<u> </u>
Plate Offsets (X,Y) [2	2:0-1-13	,0-1-10], [3:0-4-0,	,0-1-9], [6:0-3	3-8,0-2-0], [10:0-4-0,0-1	1-9], [14:0-5-12,	0-2-0], [16:0	0-4-8,0-1-8], [17	:0-1-12,0-2-0], [19:0-	-5-12,0-3-0], [22:0-2-2,0	-0-4]
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL	25.0 20.0 10.0 0.0		SPACING- Plate Grip DC Lumber DOL Rep Stress In	1.15	CSI. TC 0.4 BC 0.8 WB 0.6	88	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.18 19-20 -0.29 19-20 0.12 16	l/defl L/d >999 240 >870 180 n/a n/a	PLATES MT20	GRIP 197/144
BCDL	10.0		Code IRC201	18/TPI2014	Matrix-M	S				Weight: 165 lb	FT = 20%

21-2-4

BOT CHORD

21-4-4

26-8-0

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

10-8-8

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

2-3-8 4-0-0

15-18: 2x6 SP 2400F 2.0E, 2-22: 2x6 SPF No.2

WFBS 2x4 SPF No.2

-0-10-8 2-3-8 0-10-8 2-3-8

4-0-0

1-8-8

3-6-0

WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 16=0-3-8

Max Horz 2=-84(LC 8)

Max Uplift 2=-415(LC 10), 11=-226(LC 11), 16=-1261(LC 7) Max Grav 2=1150(LC 2), 11=585(LC 29), 16=3275(LC 2)

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

TOP CHORD 2-3=-3058/1186, 3-4=-1991/829, 4-5=-2091/870, 5-6=-2052/864, 8-9=-151/370,

9-10=-151/371, 10-11=-680/308

BOT CHORD $21-22=-755/1933,\ 20-21=-951/2433,\ 19-20=-951/2433,\ 5-19=-380/209,\ 16-17=-2447/973,$

14-16=-2447/973, 13-14=-164/498, 11-13=-169/520, 2-22=-1001/2603

WEBS 3-21=-301/764, 4-21=-561/270, 4-19=-416/148, 6-19=-855/2149, 6-17=-1226/570,

9-14=-540/308, 10-14=-870/337, 10-13=-87/441, 8-16=-2984/1236, 8-17=-1079/2756,

8-14=-922/2437, 3-22=-328/861

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=4.2psf; h=25ft; Cat. II; Exp C; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=415, 11=226, 16=1261.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

December 15,2021

Continued RM Reage Av 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	C&H/157 Cobey Creek/MO
					149264479
3008835	A11	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:54:48 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-HqIXCEU4ZgLCWB0YMfKr_b316IV6w7xuMuCvBy9?XL

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 344 lb down and 162 lb up at 4-0-0, and 324 lb down and 135 lb up at 31-11-4 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: 1-2=-60, 2-3=-60, 3-10=-60, 10-12=-60, 19-22=-20, 18-27=-20, 22-24=-20

Concentrated Loads (lb)

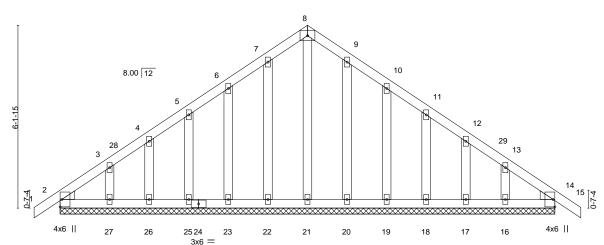
Vert: 3=-22(B) 7=-41(B) 15=-30(B) 21=-344(B) 17=-30(B) 6=-41(B) 10=-41(B) 13=-324(B) 30=-22(B) 31=-22(B) 32=-22(B) 33=-41(B) 34=-41(B) 35=-41(B) 36=-41(B) 37=-41(B) 38=-41(B) 39=-41(B) 40=-41(B) 41=-49(B) 42=-49(B) 43=-49(B) 44=-30(B) 45=-30(B) 46=-30(B) 47=-30(B) 48=-30(B) 49=-30(B) 50=-30(B) Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264480 3008835 В1 Common Supported Gable Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:04 2021 Page 1

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-pvGaZih6nbMxReEcl0ccdMGxTZyfsIMIZsm2UGy9?X5 16-8-0 17-6-8 0-10-8

> Scale = 1:38.8 4x6 =

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

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



16-8-0 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 0.05 Vert(LL) -0.00 14 n/r 120 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.03 Vert(CT) -0.00 15 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.08 Horz(CT) 0.00 14 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 86 lb FT = 20%BCDI 10.0

BRACING-

TOP CHORD

BOT CHORD

16-8-0

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. All bearings 16-8-0.

(lb) -Max Horz 2=-160(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16, 14

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-4-0, Corner(3R) 8-4-0 to 11-4-0, Exterior(2N) 11-4-0 to 17-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 20.0 psf on overhangs non-concurrent with other live loads
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16, 14.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





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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



BCDL 10.0

LUMBER-TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2 0F

20.0

10.0

0.0

2x4 SPF No 2 WFBS

WEDGE

Snow (Pf)

TCDL

BCLL

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=168(LC 7) Max Uplift 1=-1205(LC 10), 6=-1280(LC 11)

Max Grav 1=5367(LC 2), 6=5479(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD $1\hbox{-}2\hbox{--}7378/1693, 2\hbox{-}3\hbox{--}5444/1303, 3\hbox{-}4\hbox{--}4473/1135, 4\hbox{-}5\hbox{--}5503/1318, 5\hbox{-}6\hbox{--}7377/1721}$ BOT CHORD $1 - 11 = -1441/6063, \ 10 - 11 = -1441/6063, \ 9 - 10 = -973/4424, \ 7 - 9 = -1351/6061, \ 6 - 7 = -1351/6061$ WEBS 2-11=-417/1970, 2-10=-1982/564, 3-10=-636/2554, 3-9=-129/273, 4-9=-675/2697,

1.15

NO

BC

WB

Matrix-MS

0.37

0.33

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.18 10-11

6

0.04

>999

n/a

2-0-0 oc purlins (5-10-15 max.): 3-4.

180

n/a

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

Structural wood sheathing directly applied or 4-4-9 oc purlins, except

5-9=-1917/578, 5-7=-435/1905

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; 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
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15) Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1205, 6=1280,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 20-11-4 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.



Weight: 246 lb

FT = 20%

December 15,2021

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Job	Truss	Truss Type	Qty	Ply	C&H/157 Cobey Creek/MO
2008925	C4	Hin Circles		_	149264481
3008835	C1	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:06 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-IINK_OiNJCcfgyO?PRe4inLByMZiK8_b0AF9Y9y9?X3

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 11=-701(F) 7=-701(F) 19=-673(F) 20=-673(F) 21=-701(F) 22=-701(F) 24=-701(F) 25=-701(F) 26=-701(F) 27=-704(F) 27=-70



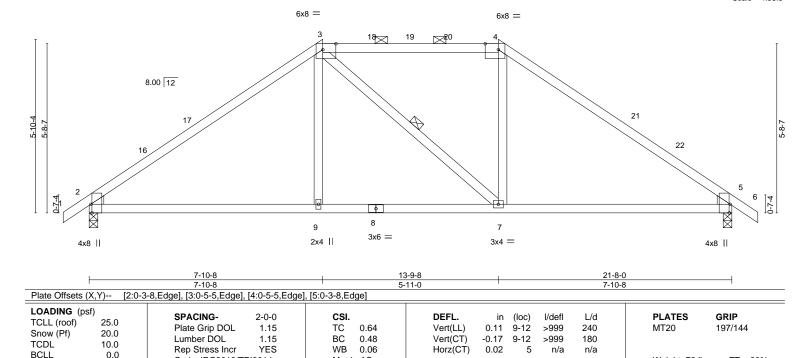
| Digitary | Digitary

13-9-8

5-11-0

Scale = 1:38.8

7-10-8



BRACING-

TOP CHORD

BOT CHORD

WEBS

Matrix-AS

LUMBER-

BCDL

0-10-8

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

10.0

WEDGE

WEBS WEDGE

Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=-150(LC 12)

Max Uplift 2=-182(LC 14), 5=-182(LC 15) Max Grav 2=1036(LC 2), 5=1036(LC 2)

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

Code IRC2018/TPI2014

7-10-8

7-10-8

TOP CHORD 2-3=-1279/206, 3-4=-948/253, 4-5=-1280/205 BOT CHORD 2-9=-121/952, 7-9=-121/948, 5-7=-49/952

WEBS 3-9=0/280, 4-7=-9/280

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-10-8, Exterior(2R) 7-10-8 to 12-1-7, Interior(1) 12-1-7 to 13-9-8, Exterior(2R) 13-9-8 to 18-0-7, Interior(1) 18-0-7 to 22-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=182, 5=182.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 78 lb

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-8-6 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

FT = 20%

December 15,2021



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Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264483 3008835 C3 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:09 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-At3TcQlFc7?EXP7a5ZCnKPzcCaV1XVS1j7Tp9Ty9?X0

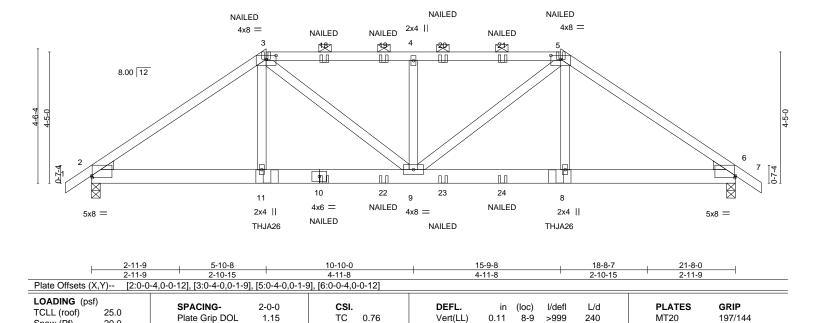
10-10-0

4-11-8

Scale = 1:38.8

21-8-0

2-11-9



LUMBER-

Snow (Pf)

TCDL

BCLL

BCDL

0-10-8 0-10-8

2-11-9 2-11-9

5-10-8

2-10-15

TOP CHORD 2x4 SPF No.2 2x6 SPF No 2 **BOT CHORD**

20.0

10.0

0.0

10.0

2x4 SPF No 2 WFBS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

Vert(CT)

Horz(CT)

TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins,

180

n/a

18-8-7

2-10-15

except

-0.17

0.05

2-0-0 oc purlins (2-9-5 max.): 3-5.

8-9

6

BOT CHORD Rigid ceiling directly applied or 7-10-1 oc bracing.

>999

n/a

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-116(LC 8)

Max Uplift 2=-691(LC 10), 6=-690(LC 11) Max Grav 2=1918(LC 2), 6=1917(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{--}2891/1098,\ 3\text{-}4\text{--}2908/1160,\ 4\text{-}5\text{--}2908/1160,\ 5\text{-}6\text{--}2889/1097}$ BOT CHORD 2-11=-876/2315, 9-11=-870/2294, 8-9=-792/2292, 6-8=-798/2313 WEBS 3-11=-208/646, 3-9=-403/874, 4-9=-644/341, 5-9=-405/876, 5-8=-207/643

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

1.15

NO

BC

WB

Matrix-MS

0.72

0.28

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=4.2psf; h=25ft; Cat. II; Exp C; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=691, 6=690,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Right Hand Hip) or equivalent at 5-10-14 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 15-9-2 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Weight: 97 lb

FT = 20%

December 15,2021

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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

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Job	Truss	Truss Type	Qty	Ply	C&H/157 Cobey Creek/MO
					149264483
3008835	C3	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:09 2021 Page 2 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-At3TcQIFc7?EXP7a5ZCnKPzcCaV1XVS1j7Tp9Ty9?X0

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 3=-70(B) 5=-70(B) 10=-78(B) 11=-546(B) 8=-546(B) 18=-70(B) 19=-70(B) 20=-70(B) 21=-70(B) 22=-78(B) 23=-78(B) 24=-78(B)

Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264484 3008835 CJ1 Diagonal Hip Girder Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

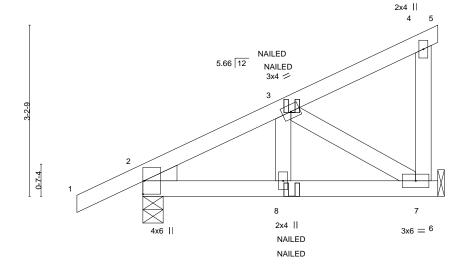
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:10 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-e3drpmltNR759ZhmeGj0tdVxp__nG0DAxnDMhwy9?X?

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

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

-1-2-14 2-7-9 2-7-9

Scale = 1:21.6



LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.12 BC 0.11 WB 0.06	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 8 >999 240 Vert(CT) -0.01 8 >999 180 Horz(CT) 0.00 7 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	1.6.2(6.7) 6.66 7 174	Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-7-9

5-6-6

2-10-13

except end verticals

LUMBER-

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

2x4 SPF No.2 WFBS

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-4-9, 7=Mechanical

Max Horz 2=127(LC 11) Max Uplift 2=-81(LC 12), 7=-85(LC 12) Max Grav 2=382(LC 19), 7=322(LC 19)

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

TOP CHORD 2-3=-339/61

BOT CHORD 2-8=-96/277. 7-8=-96/277

WEBS 3-7=-321/116

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) 2, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 6-9=-20

Concentrated Loads (lb) Vert: 8=-8(F=-4, B=-4)



December 15,2021



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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 C&H/157 Cobey Creek/MO 149264485 3008835 CJ2 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:11 2021 Page 1

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-6FBD16mV8lFymjGyC_EFPq24kNFI?TOKARywEMy9?X_ -1-2-14 3-1-6

5-6-6

except end verticals

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

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

1-2-14 3-1-6

3x4 || 4 5 NAII FD NAILED 5.66 12 3x4 II 3 4x6 = 7 0-7-4 3x4 || 9 3x4 || 4x6 II NAILED NAILED

3-1-6 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 0.24 Vert(LL) -0.03 8 >999 240 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.44 Vert(CT) -0.04 >999 180 TCDL 10.0 WB Rep Stress Incr NO 0.00 Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 19 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

3-1-6

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=107(LC 9) Max Uplift 7=-88(LC 12), 2=-77(LC 12) Max Grav 7=323(LC 19), 2=382(LC 19)

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

TOP CHORD 2-3=-331/57

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) 7, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-60, 9-10=-20, 6-8=-20

Concentrated Loads (lb) Vert: 9=-8(F=-4, B=-4)



Scale = 1:21.6

December 15,2021



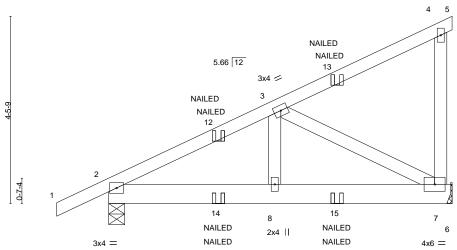
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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 C&H/157 Cobey Creek/MO 149264486 3008835 CJ3 2 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:12 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-aSkcESn8v2NoOtr9mhlUy2bETnfLkuiTP5iTloy9?Wz -1-2-14 1-2-14 3-11-8 3-11-8 Scale = 1:27.5 2x4 ||



3-11-8 8-2-3 3-11-8 4-2-12 LOADING (psf) SPACING-CSL 2-0-0 DEFL. in (loc) I/defI I/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.01 8 >999 240 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.16 Vert(CT) -0.01 7-8 >999 180 TCDL 10.0 WB Rep Stress Incr NO 0.19 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 37 lb FT = 20%BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2

TOP CHORD BOT CHORD 2x6 SPF No.2 2x4 SPF No.2 WFBS

(size) 2=0-4-9, 7=Mechanical

Max Horz 2=178(LC 11) Max Uplift 2=-135(LC 12), 7=-179(LC 12) Max Grav 2=476(LC 2), 7=496(LC 19)

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

TOP CHORD 2-3=-594/172

BOT CHORD 2-8=-217/487 7-8=-217/487

WFBS 3-7=-550/250

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) except (jt=lb) 2=135, 7=179.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 13=-19(F=-9, B=-9) 14=-7(F=-4, B=-4) 15=-41(F=-20, B=-20)



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

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

except end verticals

December 15,2021



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



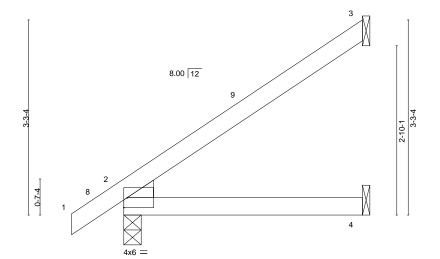
Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264487 3008835 J1 11 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:13 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-2eI_SnomgMVf01QLKPGjUF7R0B?hTNtcdlR0HFy9?Wy

Scale = 1:19.3



4-0-0 4-0-0

LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.16 WB 0.00	Vert(CT) -0	in (loc) 0.02 4-7 0.03 4-7 0.01 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,				Weight: 12 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=127(LC 14)

Max Uplift 3=-77(LC 14), 2=-19(LC 14), 4=-5(LC 14) Max Grav 3=124(LC 26), 2=245(LC 2), 4=72(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 15,2021





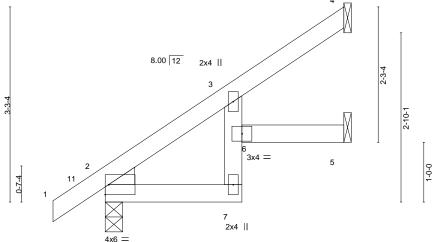
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Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264488 3008835 J2 4 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:14 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-WqsMf7oORgdWdA?Xt6ny1TgdvbKGCq7msPBaphy9?Wx -0-10-8 2-3-8 2-3-8 0-10-8 Scale = 1:19.3



2-3-8 1-8-8 LOADING (psf) SPACING-GRIP 2-0-0 CSI. DEFL. in (loc) I/defI I/d **PLATES** TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.01 6 >999 240 MT20 197/144 20.0 Snow (Pf) Lumber DOL 1.15 вс 0.20 Vert(CT) -0.02 >999 180 TCDL 10.0 WB Rep Stress Incr YES 0.00 Horz(CT) 0.01 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 14 lb FT = 20% BCDL 10.0

2-3-8

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

4-0-0

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=127(LC 14)

Max Uplift 4=-56(LC 14), 2=-19(LC 14), 5=-26(LC 14) Max Grav 4=99(LC 26), 2=245(LC 2), 5=80(LC 26)

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-0-12, Interior(1) 2-0-12 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 15,2021







Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264489 3008835 J3 4 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

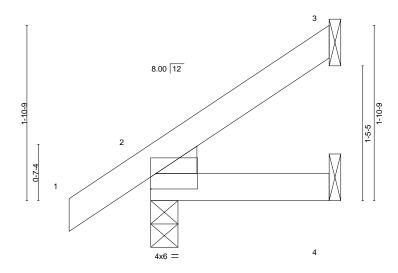
Valley Center, KS - 67147,

-0-10-8

0-10-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:14 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-WqsMf7oORgdWdA?Xt6ny1TgetbNpCq7msPBaphy9?Wx 1-1Ó-15 1-10-15

Scale = 1:12.3



1-10-15 1-10-15

LOADING (ps TCLL (roof) Snow (Pf) TCDL	25.0 20.0 10.0	SPACING- 2-0-1 Plate Grip DOL 1.1: Lumber DOL 1.1: Rep Stress Incr YES	TC BC		DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 7 7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Code IRC2018/TPI2014	Mat	rix-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

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

Max Horz 2=72(LC 14)

Max Uplift 3=-34(LC 14), 2=-19(LC 14), 4=-5(LC 14) Max Grav 3=52(LC 26), 2=161(LC 2), 4=33(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021



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



Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264490 3008835 J4 6 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

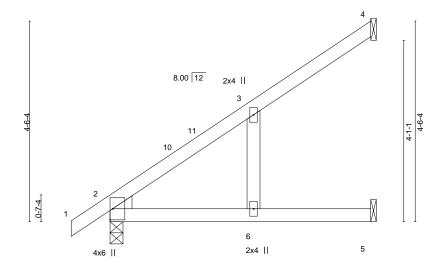
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:15 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-?1QktTp0CzlNFKakRqJBagDkP?doxH2v53w7M7y9?Ww

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

-0-10-8 3-2-13 3-2-13 <u>5-10-8</u> 0-10-8

Scale = 1:26.0



5-10-8 5-10-8

> BRACING-TOP CHORD

> BOT CHORD

LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.33 BC 0.44 WB 0.02	Vert(CT) -0.	in (loc) 0.11 6-9 0.16 6-9 0.02 2	l/defl L/d >613 240 >449 180 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 19 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=178(LC 14) Max Uplift 4=-85(LC 14), 2=-20(LC 14), 5=-34(LC 14)

Max Grav 4=156(LC 26), 2=327(LC 2), 5=113(LC 26)

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 15,2021





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	C&H/157 Cobey Creek/MO
					149264491
3008835	J5	Jack-Open	4	1	
					Job Reference (optional)

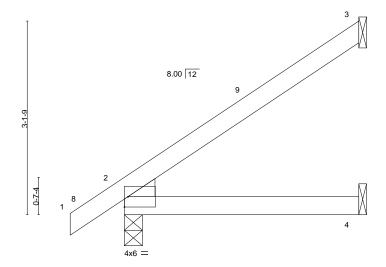
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

-0-10-8 0-10-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:16 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-TD_64pqezHtEtU9w?XqQ6ulyUO0Ygkd3Kjghuay9?Wv

Scale = 1:18.6



3-9-7
3-9-7

LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.15 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.02 4-7 >999 240 Vert(CT) -0.02 4-7 >999 180 Horz(CT) 0.01 2 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	, ,	Weight: 11 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-9-7 oc purlins.

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

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

Max Horz 2=122(LC 14)

Max Uplift 3=-71(LC 14), 2=-19(LC 14), 4=-6(LC 14)

Max Grav 3=115(LC 26), 2=236(LC 2), 4=69(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021



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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



Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264492 3008835 J6 4 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

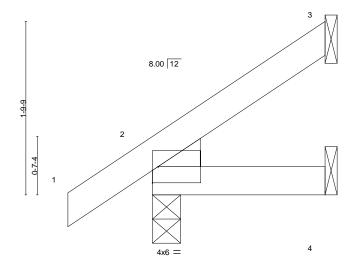
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:17 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-xPYVH9rGjb?5Uek6ZFLff5I96oOaPBtCYNPEQ0y9?Wu

Structural wood sheathing directly applied or 1-9-7 oc purlins.

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

-0-10-8 0-10-8

Scale: 1"=1'



1-9-7

BRACING-TOP CHORD

BOT CHORD

LOADING (psf) 25.0 TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.03 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 7 7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 6 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=69(LC 14)

Max Uplift 3=-32(LC 14), 2=-19(LC 14), 4=-5(LC 14) Max Grav 3=48(LC 26), 2=156(LC 2), 4=30(LC 5)

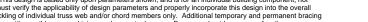
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





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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



Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264493 3008835 **GABLE** L1 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:18 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-Pb6tVVsuUu7y6oJJ6ysuBJrJaCkb8cmMn19nySy9?Wt

7-10-2 7-10-2

Scale = 1:55.8 4x6 =

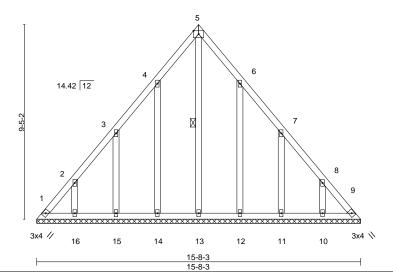


Plate Offsets (X,Y)-- [5:Edge,0-1-14]

LOADING (ps TCLL (roof) Snow (Pf) TCDL	25.0 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	0.07 0.05 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Code IRC2018/Ti	PI2014	Matri	x-S						Weight: 83 lb	FT = 20%

LUMBER-

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

2x4 SPF No 2 OTHERS

BRACING-

TOP CHORD **BOT CHORD** WFBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt

REACTIONS. All bearings 15-8-3.

Max Horz 1=-249(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 9 except 1=-131(LC 12), 14=-161(LC 14), 15=-162(LC 14), 16=-155(LC 14), 12=-159(LC 15), 11=-163(LC 15), 10=-155(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 9, 13, 14, 15, 16, 12, 11, 10 except 1=260(LC 14)

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

TOP CHORD 1-2=-354/226, 8-9=-324/226

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 7-10-2, Exterior(2R) 7-10-2 to 10-10-2, Interior(1) 10-10-2 to 15-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=131, 14=161, 15=162, 16=155, 12=159, 11=163, 10=155.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





Job	Truss	Truss Type		Qty	Ply	C&H/157 Cobey Cre	ek/MO	
								149264494
3008835	L2	GABLE		1	1			
						Job Reference (option	nal)	
Builders FirstSource (Valle	y Center), Valle	ey Center, KS - 67147,		8.	430 s Aug	16 2021 MiTek Indust	ries, Inc. Tue Dec 14 15:55:19 2021	Page 1
			ID:Y	zh5jGTdU	uk3JFmon!	9oxEvzZifN-togFirsXF	CFpkytVgfN7kWNVXc43t4VV0huLV	uy9?Ws
5-1	0-7		21-9-13				27-8-3	
5-1	0-7		15-11-6				5-10-7	

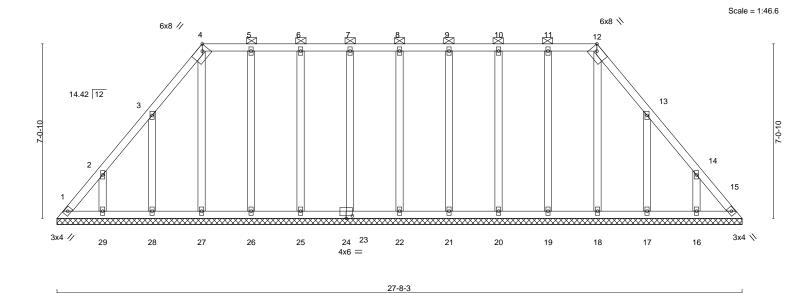


Plate Offsets	Plate Offsets (X,Y) [4:0-2-11,Edge], [12:0-2-11,Edge], [24:0-3-0,0-1-4]													
LOADING (p TCLL (roof) Snow (Pf) TCDL	25.0 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.06 0.03 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144		
BCLL BCDI	0.0	Code IRC2018/TI	PI2014	Matri	∢-S	,					Weight: 149 lb	FT = 20%		

27-8-3

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2 2x4 SPF No 2 OTHERS

BRACING-TOP CHORD BOT CHORD

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

2-0-0 oc purlins (6-0-0 max.): 4-12.

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

REACTIONS. All bearings 27-8-3.

Max Horz 1=-185(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 15, 22, 23, 25, 26, 27, 21, 20, 19 except 1=-102(LC 12), 28=-173(LC 14), 29=-153(LC 14), 17=-172(LC 15), 16=-154(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 25, 26, 27, 28, 29, 21, 20, 19, 18, 17, 16

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

NOTES-

LUMBER-

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-10-7, Exterior(2R) 5-10-7 to 9-10-2 , Interior(1) 9-10-2 to 21-9-13, Exterior(2R) 21-9-13 to 25-10-2, Interior(1) 25-10-2 to 27-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 22, 23, 25, 26, 27, 21, 20, 19 except (jt=lb) 1=102, 28=173, 29=153, 17=172, 16=154.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021



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Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264495 3008835 L3 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:20 2021 Page 1

ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-L_DdwBt90WNgL6ShENuMHkwf_0QDcYweELeu1Ly9?Wr 4-9-15 3-0-0

> Scale = 1:36.7 3x6 =

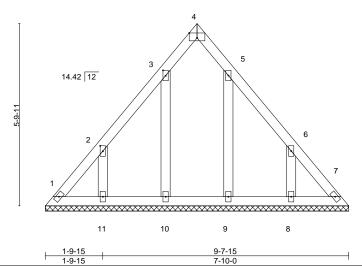


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-1,0-1-0], [4:Edge,0-1-14]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.08 BC 0.04 WB 0.04	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 IRC2018/TPI2014	Matrix-S						Weight: 40 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No 2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SPF No 2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No 2 WFBS

REACTIONS. All bearings 9-7-15.

(lb) -Max Horz 1=149(LC 11)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 10=-103(LC 14), 8=-170(LC 15), 11=-168(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10, 8, 11

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

TOP CHORD 1-2=-255/206

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 4-9-15, Exterior(2R) 4-9-15 to 7-9-15 , Interior(1) 7-9-15 to 9-4-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (jt=lb) 10=103, 8=170, 11=168.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021







Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264496 3008835 PB1 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:22 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-HNLOLsvPY7dObPc4LoxqM9?01p6s4Slxif7?5Dy9?Wp Scale = 1:18.3 4x6 = 2x4 || 8.00 12 5 2x4 || 3 6 10 9 8 2x4 = 2x4 || 2x4 || 2x4 || 2x4 = LOADING (psf) PLATES GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.02 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 23 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 **OTHERS**

REACTIONS. All bearings 8-1-2.

Max Horz 1=-66(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8, 6, 2 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10, 8, 6, 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-0-9, Exterior(2R) 4-0-9 to 7-0-9, Interior(1) 7-0-9 to 7-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8, 6, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 15,2021



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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 C&H/157 Cobey Creek/MO 149264497 3008835 PB2 21 Piggyback Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:23 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-mZvmYCv1JRIFDZBGvVS3uMY8SDQtpvx5xJsYegy9?Wo Scale = 1:18.0 4x6 =3 8.00 12 0-4-3 0-1-10 6 2x4 = 2x4 || 2x4 = 8-1-2 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 0.19 Vert(LL) 0.01 n/r 120 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.10 Vert(CT) 0.01 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.03 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 21 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 6=6-7-10, 4=6-7-10, 2=6-7-10

Max Horz 2=66(LC 13)

Max Uplift 6=-10(LC 14), 4=-61(LC 15), 2=-53(LC 14) Max Grav 6=270(LC 2), 4=196(LC 2), 2=196(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-0-9, Exterior(2R) 4-0-9 to 7-0-9, Interior(1) 7-0-9 to 7-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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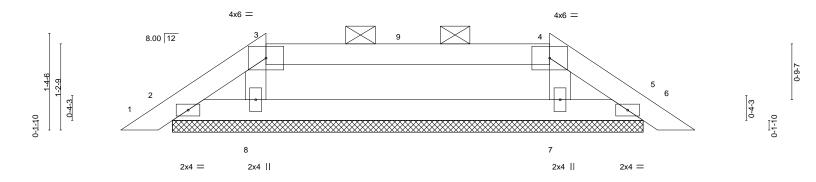
Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264498 3008835 PB3 Piggyback Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:24 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-EIT8lYwf4kt5qjmSTDzIRZ5HMdmJYMFE9zc6A6y9?Wn

Scale = 1:16.2



		8-1-						-	
COADING (psf) TCLL (roof) 25.0 Snow (Pf) 20.0 TCDL 10.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.31 BC 0.09 WB 0.02 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5 5 7	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 20%

8-1-2

LUMBER-**BRACING-**

TOP CHORD TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-4.

2x4 SPF No.2 **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-7-10.

Max Horz 2=-29(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=261(LC 32), 7=261(LC 33)

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 15,2021



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Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264499 3008835 V1 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:25 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-iy1WzuxHr20yStLf1wUXzndTz16?HnFOOdLfiYy9?Wm 17-6-7 Scale = 1:39.0 4x6 =3 8.00 12 12 2x4 || 2x4 || 13 (a..... 3x4 / 3x4 N 9 8 6 2x4 || 3x6 = 2x4 || 2x4 II 17-6-7 17-6-1 LOADING (psf) PLATES GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) n/a n/a 999 MT20 197/144

LUMBER-

Snow (Pf)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

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

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

TOP CHORD BOT CHORD

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

Weight: 55 lb

FT = 20%

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

999

n/a

n/a

n/a

REACTIONS. All bearings 17-5-11.

20.0

10.0

0.0

10.0

Max Horz 1=-144(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-196(LC 14), 6=-195(LC 15)

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=258(LC 2), 9=464(LC 25), 6=464(LC 26)

вс

WB

Matrix-S

0.13

0.10

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

WEBS 2-9=-359/226, 4-6=-358/226

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-9-3, Exterior(2R) 8-9-3 to 11-9-3, Interior(1) 11-9-3 to 17-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=196, 6=195,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





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Qty C&H/157 Cobey Creek/MO 149264500 3008835 V2 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:26 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-A8buAEywcM8p41wrae?mW_Af1QSc0E2XdH5CE_y9?WI 13-6-7 Scale = 1:28.5 4x6 = 3 8.00 12 10 2x4 || 2x4 || 6 8 3x4 // 3x4 💸 2x4 || 2x4 || 2x4 || 0-<u>0-6</u> 0-0-6 13-6-7 13-6-1 LOADING (psf) SPACING-CSI. GRIP 2-0-0 DEFL. in (loc) I/defI L/d PLATES TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.10 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.07 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 40 lb Matrix-S FT = 20% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD**

Ply

OTHERS

Job

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

Truss

BOT CHORD

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

REACTIONS. All bearings 13-5-11.

Max Horz 1=109(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-154(LC 14), 6=-154(LC 15)

Truss Type

All reactions 250 lb or less at joint(s) 1, 5 except 7=298(LC 2), 8=355(LC 25), 6=355(LC 26)

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

2-8=-285/183, 4-6=-285/183 **WEBS**

NOTES-

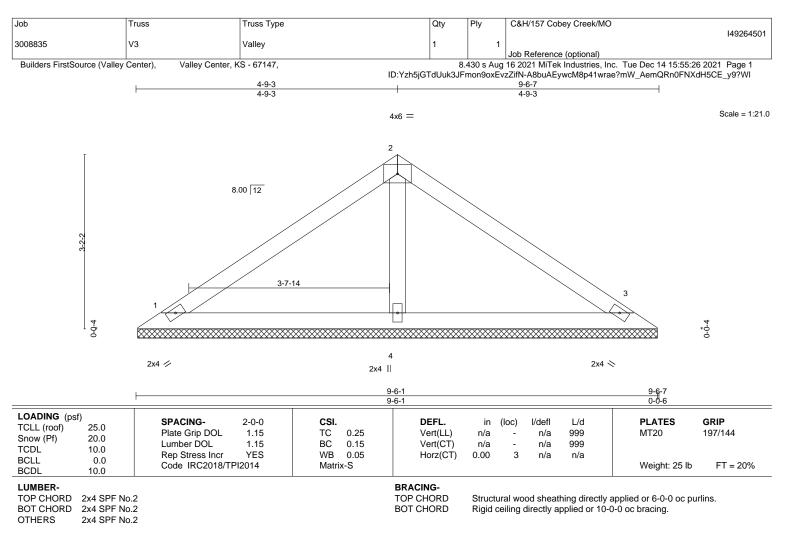
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-9-3, Exterior(2R) 6-9-3 to 9-9-3, Interior(1) 9-9-3 to 13-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=154, 6=154.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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REACTIONS. (size) 1=9-5-11, 3=9-5-11, 4=9-5-11

Max Horz 1=-75(LC 10)

Max Uplift 1=-41(LC 14), 3=-51(LC 15), 4=-38(LC 14) Max Grav 1=190(LC 2), 3=190(LC 2), 4=392(LC 2)

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

WEBS 2-4=-261/112

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-3, Exterior(2R) 4-9-3 to 7-9-3, Interior(1) 7-9-3 to 9-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





Job Truss Truss Type Qty Ply C&H/157 Cobey Creek/MO 149264502 3008835 V4 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 14 15:55:27 2021 Page 1 ID:Yzh5jGTdUuk3JFmon9oxEvzZifN-eK8HOazYNfGghAV18LW?3Cjr2qmyliLgsxqmnRy9?Wk Scale = 1:13.9 3x6 = 8.00 12 3-7-5 2-0-0 0-0-4 2x4 // 2x4 💸 5-6-7 5-6-1 Plate Offsets (X,Y)--[2:0-3-0,Edge] 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 0.09 Vert(LL) n/a n/a 999 MT20 197/144 Snow (Pf) 20.0 Lumber DOL вс Vert(CT) 1.15 0.22 n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 13 lb FT = 20%

LUMBER-TOP CHORD

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-6-7 oc purlins.

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

REACTIONS. (size) 1=5-5-11, 3=5-5-11

Max Horz 1=40(LC 11)

Max Uplift 1=-32(LC 14), 3=-32(LC 15) Max Grav 1=206(LC 2), 3=206(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.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=115 mph \ (3-second \ gust) \ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=25 ft; \ Cat. \ II; \ Exp. \ C; \ Enclosed; \ Particle \ Par$ MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 15,2021





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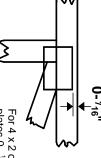


Symbols

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- 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



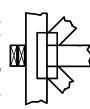
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

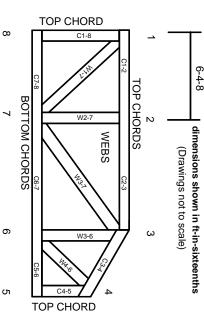
Min size shown is for crushing only

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.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 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.