

08/25/2021



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

Re: 2889809

Summit/55 Woodside

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: I47308286 thru I47308369

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

Missouri COA: Engineering 001193



August 5,2021

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.

5-4-12

1-3-11

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVING 89286

LEE'S SUMMIT, MISSOURI

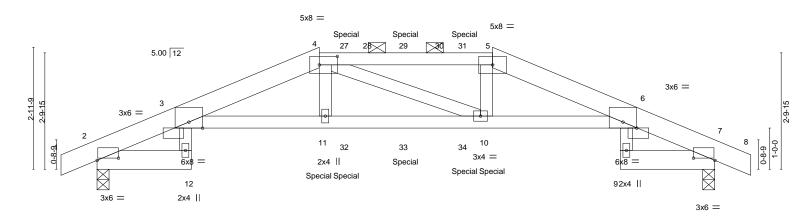
8.430 s Nov 18 2020 MTek Indu tries, Inc. Wed Aug. 416:18:46:2021. Pag. ID:M8LbXc_N5ZdPK2DzMZhvPgywaFi-2vldrmrWnZQON DaJoYQCkW 11/A2 milylu03 my 46:14.46 10:10-15 12-8-8 13-3-11 1-9-9 2.2.8 0.40.8

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

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

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

Scale = 1:28.0



9-7-4

4-2-8

	2-3-8	5-4-12	+	9-7-4	-		12-8-8	15-0-0	
Plate Offsets (>	(,Y) [2:0-6-4,0-0-10]	3-1-4 [4:0-5-4,0-2-8], [7:0-6-4	1,0-0-10]	4-2-8			3-1-4	2-3-8	
LOADING (psf) SPACIN	G- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0			TC 0.48 BC 0.76	Vert(LL) Vert(CT)	-0.13 -0.23	12 >999 12 >781	240 180	MT20	197/144
BCLL 0.0) * Rep Stre	ss Incr NO	WB 0.08	Horz(CT)	0.18	7 n/a	n/a		
BCDL 10.0	Code IR	C2018/TPI2014	Matrix-MS					Weight: 134 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

2889809

Builders First Source, Valley Center, KS 67147

2-3-8

2-3-8

4-1-1

1-9-9

-0-10-8

0-10-8

TOP CHORD 2x6 SP 2400F 2.0E *Except*

4-5: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-12,7-9: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=42(LC 26) Max Uplift 2=-74(LC 8), 7=-74(LC 8)

Max Grav 2=1316(LC 1), 7=1316(LC 1)

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

TOP CHORD 2-3=-446/52, 3-4=-3790/141, 4-27=-3706/142, 27-28=-3706/142, 28-29=-3706/142, 28-

29-30=-3706/142, 30-31=-3706/142, 5-31=-3706/142, 5-6=-3792/140, 6-7=-446/52 BOT CHORD 3-11=-71/3642, 11-32=-66/3703, 32-33=-66/3703, 33-34=-66/3703, 10-34=-66/3703,

6-10=-70/3644

WEBS 4-11=0/650, 5-10=0/674

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 74 lb uplift at joint 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 55 lb up at 6-0-12, and 83 lb down and 54 lb up at 7-6-0, and 83 lb down and 55 lb up at 8-11-4 on top chord, and 366 lb down and 39 lb up at 5-4-12, 63 lb down at 6-0-12, 63 lb down at 7-6-0, and 63 lb down at 8-11-4, and 366 lb down and 39 lb up at 9-7-4 on bottom

SCOTT M.
SEVIER

PE-2001018807

PSIONAL ENGIN

August 5,2021

Contributed on bagiesign/selection of such connection device(s) is the responsibility of others.

war. War. Millor - 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 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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Summit/55 Woodside Truss Truss Type Qty Ply **DEVELOPMENT SERVINTES**8286 2889809 Α1 Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.430 s Nov 18 2020 MiTek Indu tries, Inc., Wed Aug. 4 16:18:46 2021 Page 2 ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-2vldrmrWnZQON DaJoYQCkW6Jl/AQLAmiyuQ2rhylAQ2

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 12-15=-20, 18-21=-20, 9-24=-20

Concentrated Loads (lb)

Vert: 11=-366(B) 10=-366(B) 27=-75(B) 29=-75(B) 31=-75(B) 32=-63(B) 33=-63(B) 34=-63(B)



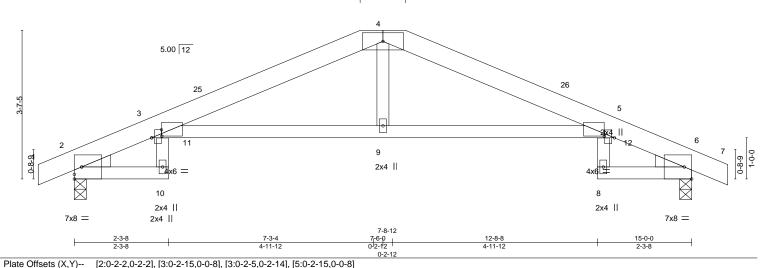
Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 A2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-kyPfvPBOcll2xUma22tF

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Scale = 1:28.0



7-8-12 7-6-0 0-2-12 0-2-12



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.18	9-18	>995	240	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.34	9-18	>535	180	MT20HS	148/108
BCLL 0.0	*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.25	6	n/a	n/a		
BCDL 10.0		Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 56 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

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

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

Max Horz 2=-55(LC 10)

Max Uplift 2=-51(LC 12), 6=-51(LC 12) Max Grav 2=742(LC 1), 6=742(LC 1)

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

TOP CHORD 3-4=-1424/202, 4-5=-1424/201 **BOT CHORD** 3-9=-92/1344, 5-9=-92/1344

4-9=0/303 **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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 1-10-9, Interior(1) 1-10-9 to 7-6-0, Exterior(2R) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 15-10-8 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
- All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 51 lb uplift at
- 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 **A3 ROOF SPECIAL** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-2-8

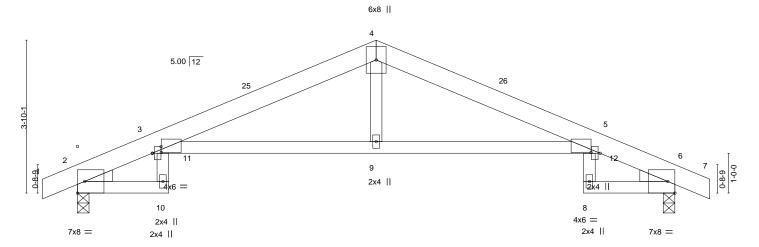
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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT, MISSOURI

Wed A ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-C8z16lC0NcQQYeLntmOeX0G

15.0.0

Scale = 1:28.9



12-8-8

5-2-8

12-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

	2-3-6		5-2-8					2-3-8		
Plate Off	sets (X,Y)	[3:0-2-11,0-0-4], [3:0-2-0	0,0-2-10], [3:0-	2-1,1-10-9], [5:0-2-11,0	0-4]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.18 9-1	8 >983	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.34 9-1	8 >529	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.25	6 n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS	, ,				Weight: 57 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

| -0-10-8 | 0-10-8

WEDGE

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

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

Max Horz 2=57(LC 11)

Max Uplift 2=-51(LC 12), 6=-51(LC 12) Max Grav 2=742(LC 1), 6=742(LC 1)

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

TOP CHORD 3-4=-1369/283, 4-5=-1369/282

BOT CHORD 3-9=-157/1286, 5-9=-157/1286

WEBS 4-9=0/306

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 1-10-9, Interior(1) 1-10-9 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 15-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 51 lb uplift at
- 6) 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.
- 7) 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.



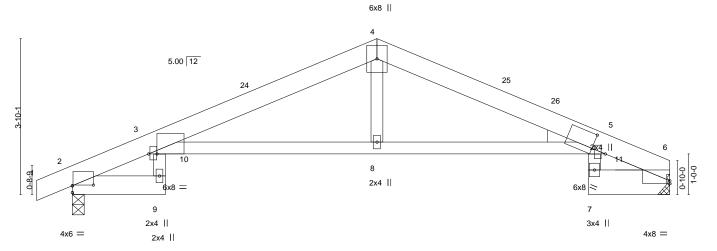
August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 2889809 A4 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference (optional) 62/48-362021-826 061-366/168-02/01/11 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-gKXPK5Cf8vYHAbwz9Tvt4b -0-10-8 0-10-8 12-8-8 2-3-8 5-2-8 5-2-8

Scale = 1:28.4

RELEASE FOR CONSTRUCTION



		2-3-8	5-2-8		5-2-8					2-0-0		
Plate Offset	Plate Offsets (X,Y) [2:0-6-3,0-0-3], [2:0-2-0,0-0-0], [2:0-2			,0-0-0], [3:0-2	2-7,0-0-0], [5	5:0-4-5,0-4-4], [6:0-	0-0,0-0-	13]				
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.17	8-20	>999	240	MT20	197/144
TCDL '	10.0	Lumber DOL	1.15	ВС	0.74	Vert(CT)	-0.32	8-20	>548	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.21	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	(-AS						Weight: 58 lb	FT = 20%
											3	

BRACING-

TOP CHORD

BOT CHORD

12-8-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x6 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 *Except*

2-9: 2x6 SPF No.2, 6-7: 2x8 SP 2400F 2.0E

2-3-8

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=56(LC 11)

Max Uplift 6=-23(LC 12), 2=-51(LC 12) Max Grav 6=665(LC 1), 2=730(LC 1)

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

TOP CHORD 3-4=-1320/288, 4-5=-1327/300 3-8=-199/1238, 5-8=-199/1238 **BOT CHORD**

WEBS 4-8=0/299

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 1-10-9, Interior(1) 1-10-9 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 14-8-8 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

7-6-0

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 6 and 51 lb uplift at joint 2.
- 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.



14-8-8

August 5,2021



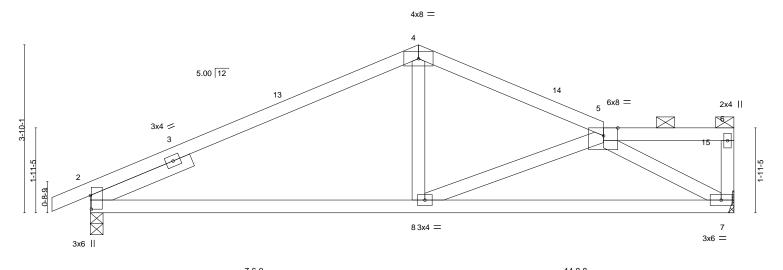
Job Truss Truss Type Qty Summit/55 Woodside 2889809 A5 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:UOuO859_0naEM6EINHbM8DzPWBV-8X5nXRDHvDg8oy /9jBQ6cpl

7-6-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT, MISSOURI

14-8-8

Scale = 1:26.3



4-2-12

Plate Offsets (X,Y)	[2:0-3-12,0-0-4], [5:0-3-14,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.07 8-11 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.13 8-11 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.03 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 52 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

-0-10-8 0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=Mechanical

Max Horz 2=90(LC 11)

Max Uplift 2=-54(LC 12), 7=-27(LC 12) Max Grav 2=718(LC 1), 7=653(LC 1)

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

2-4=-821/209, 4-5=-870/213 TOP CHORD **BOT CHORD** 2-8=-188/758, 7-8=-245/865 **WEBS** 4-8=0/314, 5-7=-955/286

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 14-6-12 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 grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 27 lb uplift at
- 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.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

August 5,2021



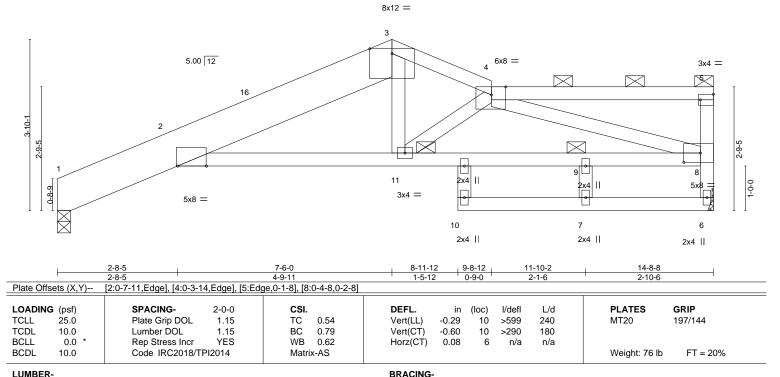
Job Truss Truss Type Qty Summit/55 Woodside 2889809 A6 Roof Special

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. 12/46/19/2021 Page 1
ID:UOuO859_0naEM6EINHbM8DzPWBV-cjf9lnEvgXo?P5 MHuxL001009E120K2JFv2MVDR Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8-11-12 4-9-11 1-5-12 0-9-0

Scale = 1:25.8



TOP CHORD

BOT CHORD

JOINTS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 1=101(LC 11)

Max Uplift 1=-6(LC 12), 6=-1(LC 12) Max Grav 1=681(LC 1), 6=693(LC 1)

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

TOP CHORD 1-2=-279/63, 2-3=-1088/197, 3-4=-1192/267, 6-8=-684/142

BOT CHORD 2-11=-265/1033, 9-11=-394/1460, 8-9=-394/1460 **WEBS** 3-11=-2/494, 4-11=-497/175, 4-8=-1329/395

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 7-6-0, Exterior(2E) 7-6-0 to 9-8-12, Interior(1) 9-8-12 to 14-6-12 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 grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 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 6 lb uplift at joint 1 and 1 lb uplift at joint
- 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.



Structural wood sheathing directly applied, except end verticals, and

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

9-1-0 oc bracing: 9-11 10-0-0 oc bracing: 2-11

1 Brace at Jt(s): 5, 11, 9

Rigid ceiling directly applied. Except:

August 5,2021



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 Summit/55 Woodside 2889809 **B1** HIP GIRDER Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

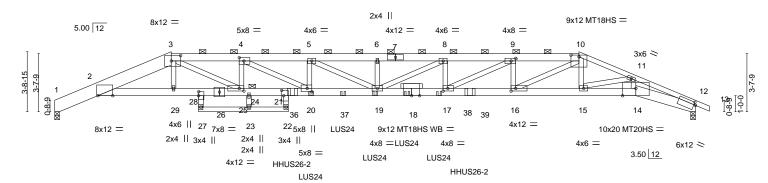
_8-11-12 | 11-7-15 11₁9-6 14-7-0 1,5-10-13 20-1-12 | 24-4-11

8-11-12 11-7-15 11-9-6 14-7-0 1-8-8 2-8-3 0-1-7 2-9-10

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Apr 12/18/0 2021 Flag ID:UOu0859_0naEM6EINHbM8DzPWBV-Z6mw9TF9C82jfPD OJ_pE7763/p2jffsty 9J_00D

Scale = 1:71.9



24-4-11 4-2-15

	2-8-5	4-6-15 1-8-8	2-8-3 0-1-7	2-9-10 ¹ 1-3-14 ¹	4-2-15	4-2-15	4	2-15	4-1-3	3-6-10 3-	8-10
Plate Offse	ets (X,Y)	[2:0-11-2,Edge], [3:0-7-0,	0-4-0], [4:0-3-	8,0-2-8], [9:0-3-	-8,0-2-0], [10:0-6-0	0,0-1-5], [12:0)-1-4,0-2-0	, [14:0-10-	0,Edge], [16:	0-3-8,0-2-0], [17:0-3-8,0	-2-0],
		[20:0-3-8,0-2-8], [21:0-4-0	0,0-1-8], [25:0-	3-8,0-2-0], [28:0	:0-3-0,0-0-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	D.83 \	Vert(LL) -	0.96 19	>497	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0).88 ×	Vert(CT) -	1.70 19	>281	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB 0	D.82 I	Horz(CT)	0.52 12	2 n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-M	MS					Weight: 437 lb	FT = 20%

BOT CHORD

JOINTS

28-7-9

32-8-12

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

10-0-0 oc bracing: 2-29

1 Brace at Jt(s): 24

36-3-6

Structural wood sheathing directly applied or 2-9-7 oc purlins, except

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

LUMBER-BRACING-TOP CHORD TOP CHORD

2x6 SPF 2100F 1.8E *Except* 1-3: 2x10 SP 2400F 2.0E, 10-13: 2x4 SPF 1650F 1.5E

2x6 SPF 2100F 1.8E *Except* **BOT CHORD**

27-28,22-27,21-22: 2x4 SPF No.2, 12-14: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No 2

REACTIONS. (size) 1=0-3-8, 12=0-3-8

Max Horz 1=-56(LC 13)

Max Uplift 1=-417(LC 4), 12=-452(LC 5) Max Grav 1=3728(LC 1), 12=3783(LC 1)

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

TOP CHORD 1-2=-1425/189, 2-3=-11952/1437, 3-4=-16392/1997, 4-5=-21017/2552, 5-6=-21691/2679,

6-8=-21691/2679, 8-9=-20799/2529, 9-10=-16647/2026, 10-11=-11795/1416,

11-12=-13957/1620

BOT CHORD 2-29=-1312/11415, 28-29=-1315/11466, 25-28=-1256/10943, 24-25=-1864/15868,

21-24=-1864/15868, 20-21=-1923/16392, 19-20=-2478/21017, 17-19=-2455/20799, 16-17=-1942/16638, 15-16=-1236/10896, 14-15=-1414/12498, 23-27=-60/523,

22-23=-60/523, 12-14=-1452/12875

WEBS 3-29=-50/766, 6-19=-341/106, 8-19=-168/1075, 8-17=-757/179, 9-17=-576/4735,

9-16=-2871/422, 10-16=-810/6657, 10-15=-95/1151, 11-15=-1591/211, 11-14=-148/1626,

4-25=-2595/384, 5-20=-619/168, 5-19=-149/827, 4-20=-629/5247, 3-25=-688/5615

NOTES-

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

Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-3-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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=15ft; 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
- 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) 1, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continuation of bearing surface



August 5,2021



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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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 2889809 **B1** HIP GIRDER | LEE'S SUMMIT, MISSOU 8.430 s Jun | 2 2021 MiTek Industries, Inc ID:UOuO859_0naEM6EINHbM8DzPWBV-Z6mw9TF9C82jfPD OJ_pErz 63/2jnst 0 912/105/002/2jnst 0 912/105/002/ LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center), Valley Center, KS - 67147,

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 417 lb uplift at joint 1 and 452 lb uplift at joint 12.

- 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.
- 12) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 14-10-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 16-0-0 from the left end to 24-0-0 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 25-11-2 from the left end to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: 1-31=-92, 3-31=-70, 3-10=-70, 10-13=-70, 28-30=-20, 14-21=-20, 22-27=-20, 14-33=-20

Concentrated Loads (lb)

Vert: 18=-274(B) 19=-289(B) 20=-289(B) 36=-1239(B) 37=-289(B) 38=-274(B) 39=-1182(B)



16023 Swingley Ridge Rd Chesterfield, MO 63017



Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 B2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MTek Industries, Inc. Wed Arg. (12/1931 = 2021 MTek I

Structural wood sheathing directly applied, except

5-17, 7-13

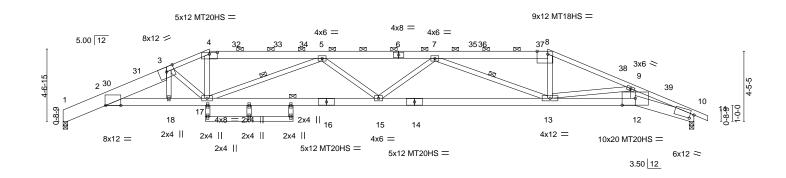
2-0-0 oc purlins (2-7-5 max.): 4-8.

10-0-0 oc bracing: 2-18, 15-17

1 Row at midpt

Rigid ceiling directly applied. Except:

Scale = 1:73.1



	+ 2-8-5 + 6-6-11 + 9-0-4 9-3 ₁ -411-9- 2-8-5 + 3-10-6 + 2-5-9 0-3-0 2-6-			20-0-0 5-5-0		30-8-12 10-8-12			36-3-6 5-6-10	40-0-0 3-8-10
	[2:0-11-10,0-0-0], [4:0-6-	-0,0-1-5], [8:0-8	2-9-6 -2,Edge], [10		, [12:0-10-0,0-5-					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.91 0.77 0.76 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.56 15 -1.01 15-17 0.39 10	l/defl >861 >475 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 210	GRIP 197/144 148/108 197/144 b FT = 20%

TOP CHORD

BOT CHORD

WFBS

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD

1-3: 2x10 SP 2400F 2.0E, 8-11,3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-16,12-14,14-16: 2x6 SPF 2100F 1.8E, 10-12: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=-69(LC 10)

Max Uplift 1=-58(LC 12), 10=-99(LC 12) Max Grav 1=1819(LC 1), 10=1857(LC 1)

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

TOP CHORD 1-2=-691/76, 2-3=-4948/342, 3-4=-4490/301, 4-5=-4114/293, 5-7=-5941/370,

7-8=-4259/316, 8-9=-4591/312, 9-10=-6424/448

BOT CHORD 2-18=-243/4718, 17-18=-245/4733, 15-17=-335/5821, 13-15=-326/5837, 12-13=-373/5737,

10-12=-379/5927

WEBS 8-13=0/1297, 9-13=-1536/187, 9-12=-4/856, 4-17=-18/1339, 3-17=-720/117,

5-17=-1967/182, 5-15=0/346, 7-15=0/324, 7-13=-1876/163

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2R) 9-3-4 to 13-6-3, Interior(1) 13-6-3 to 30-8-12, Exterior(2R) 30-8-12 to 34-11-11, Interior(1) 34-11-11 to 40-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 10 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 58 lb uplift at joint 1 and 99 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.



August 5,2021

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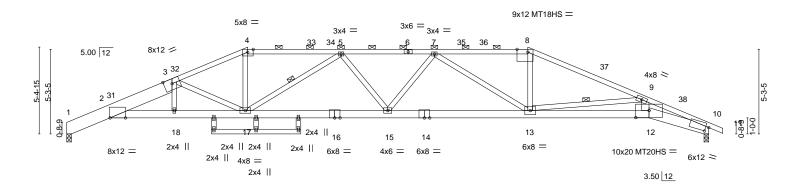


Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 **B**3 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

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

Scale = 1:71.8



	2-8-5	6-6-11 9-0-4	11-3-4 11 ₅ 9-10		20-0-0	1	28-8-12		3		40-0-0
	2-8-5	3-10-6 2-5-9	2-3-0 0-6-6	2-9-6	5-5-0	<u> </u>	8-8-12		1	7-6-10	3-8-10
Plate Off	sets (X,Y)	[2:0-11-10,0-0-0], [4:0-4-2	2,Edge], [8:0-8	-2,Edge], [1	0:0-2-5,0-3-5], [1	12:0-10-0,0-5-4	1				
		1	7 0 1/1								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.46 15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.85 15-17	>566	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.37 10	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	ix-AS	, ,				Weight: 206 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x10 SP 2400F 2.0E, 8-11: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-16,12-14: 2x6 SPF 2100F 1.8E, 10-12: 2x8 SP 2400F 2.0E 14-16: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except*

9-12: 2x6 SPF No.2

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=-83(LC 10)

Max Uplift 1=-58(LC 12), 10=-99(LC 12) Max Grav 1=1819(LC 1), 10=1857(LC 1)

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

TOP CHORD 1-2=-691/76, 2-3=-4969/354, 3-4=-4067/302, 4-5=-3676/297, 5-7=-4567/337,

7-8=-3790/314, 8-9=-4159/303, 9-10=-6683/456

BOT CHORD 2-18=-259/4753, 17-18=-257/4770, 15-17=-232/4505, 13-15=-225/4520, 12-13=-395/5887, 10-12=-389/6189

WEBS 4-17=-14/1174, 8-13=0/1081, 9-13=-2115/234, 9-12=0/1025, 3-17=-1155/132,

5-17=-1136/103, 7-13=-1060/89

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-3-4, Exterior(2R) 11-3-4 to 15-6-3, Interior(1) 15-6-3 to 28-8-12, Exterior(2R) 28-8-12 to 32-11-11, Interior(1) 32-11-11 to 40-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 10 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 58 lb uplift at joint 1 and 99 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

Continuetrockphgezplied directly to the bottom chord.



August 5,2021

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Job Truss Truss Type Qty Ply Summit/55 Woodside HIP 2889809 ВЗ | Job Reference (optional) | LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc | Wed Am (12/16/34/2021) Rags 2

ID:UOuO859_0naEM6EINHbM8DzPWBV-8odC5FQxvRpkKZ QDFE6 | ms/e/zFrags/22/1/DB2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 LEE'S SUMMIT. MISSOURI

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



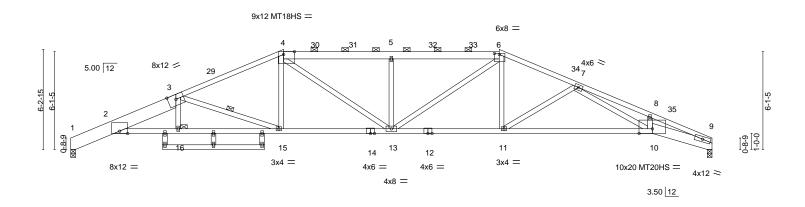
Job Truss Truss Type Qty Summit/55 Woodside 2889809 B4 Hip Job Reference (optional)

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 LEF'S SUMMIT, MISSOURI

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Ars (2/18/35/2021 Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-c_AbJbRZglxbyjtdmzllLcb(x)yf/3/2630Jybb2byDA 26-8-12 26-8-12 6-8-12

Scale = 1:71.9



2-8-5	1 5-8-12 6 _F 6-1 ₁ 1 8-10-14	12-1-0	13-3-4	20-0-0	1 26	5-8-12	I	36-3-6	1	40-0-0
2-8-5	3-0-7 0 ¹ -9-15 2-4-3	3-2-2	1-2-4	6-8-12	1 6	-8-12		9-6-10	ı	3-8-10
Plate Offsets (X,Y)	[4:0-8-2,Edge], [6:0-3-12,0)-0-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.47 10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.01 10-11	>474	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.43 9	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TP	I2014	Matri	x-AS					Weight: 194 lb	FT = 20%
									<u>-</u>	
LUMBER-					BRACING-					

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x10 SP 2400F 2.0E *Except*

4-6: 2x6 SPF No.2, 6-9: 2x4 SPF 1650F 1.5E, 3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-14,10-12: 2x4 SPF 1650F 1.5E, 9-10: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=91(LC 11)

Max Uplift 1=-63(LC 12), 9=-73(LC 12) Max Grav 1=1812(LC 1), 9=1795(LC 1)

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

TOP CHORD 1-2=-688/70, 2-3=-4819/362, 3-4=-3674/303, 4-5=-3849/349, 5-6=-3849/349,

6-7=-3668/303, 7-8=-6519/460, 8-9=-6615/399

BOT CHORD 2-16=-297/4636, 15-16=-293/4644, 13-15=-147/3302, 11-13=-137/3316, 10-11=-268/4102,

9-10=-330/6113

WEBS 4-15=0/584, 4-13=-56/870, 5-13=-667/142, 6-13=-63/842, 6-11=0/680, 7-11=-899/155,

7-10=-98/2243, 3-15=-1394/154

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 13-3-4, Exterior(2R) 13-3-4 to 17-6-3, Interior(1) 17-6-3 to 26-8-12, Exterior(2R) 26-8-12 to 30-11-11, Interior(1) 30-11-11 to 40-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 1, 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 63 lb uplift at joint 1 and 73 lb uplift at 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021





Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 16

Job Truss Truss Type Qty Summit/55 Woodside 2889809 **B**5 Hip Job Reference (optional)

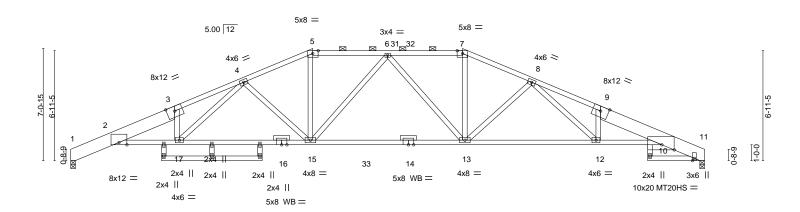
Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6

LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Apr (1246-40-2021 Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-zy_UMIViUHat2U laZWLV(2000)Ft.Gb) FM-RVD 5 24-8-12 29-1-0 33-5-5

Scale = 1:72.7



24-8-12 4-8-12

	2-8-5	₁ 5-8-12 6 ₆ -1 ₁ 8-10-14	12-1-0	15-3-4	24-8-12	1		33-5	-5	36-5-0 40	-0-0
	2-8-5	3-0-7 0 ¹ -9-15 2-4-3	3-2-2	3-2-4	9-5-8	- 1		8-8-	9	2-11-11 3-	·7-0
Plate Offs	ets (X,Y)	[5:0-4-2,Edge], [7:0-4-2,E	dge], [10:0-9	-5,0-3-14]							
		1		T -							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60 Vert(LL)	-0.57	13-15	>839	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90 Vert(CT)	-0.99	13-15	>482	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46 Horz(CT	0.43	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matrix	x-AS					Weight: 207 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-1-3 max.): 5-7.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

Builders FirstSource (Valley Center),

1-3,9-11: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-16,10-14: 2x4 SPF 1650F 1.5E, 14-16: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 11=0-3-8, 1=0-3-8

Max Horz 1=-106(LC 10)

Max Uplift 11=-70(LC 12), 1=-63(LC 12) Max Grav 11=1861(LC 18), 1=1874(LC 17)

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

TOP CHORD 1-2=-747/75, 2-3=-5011/316, 3-4=-5209/381, 4-5=-3465/293, 5-6=-3148/291,

6-7=-3139/293, 7-8=-3457/296, 8-9=-5168/389, 9-10=-4978/322, 10-11=-708/76

BOT CHORD 2-17=-243/4880, 15-17=-196/3804, 13-15=-140/3310, 12-13=-197/3707, 10-12=-246/4761 5-15=-27/1058, 6-15=-465/74, 6-13=-471/70, 7-13=-28/1054, 3-17=-715/124, WFBS

4-15=-800/135, 4-17=-64/1410, 9-12=-707/129, 8-13=-792/137, 8-12=-69/1391

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 15-3-4, Exterior(2R) 15-3-4 to 19-6-3, Interior(1) 19-6-3 to 24-8-12, Exterior(2R) 24-8-12 to 29-1-0, Interior(1) 29-1-0 to 39-10-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 11, 1 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 70 lb uplift at joint 11 and 63 lb uplift at joint 1.
- 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.



August 5,2021



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 Summit/55 Woodside HIP 2889809 B6 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

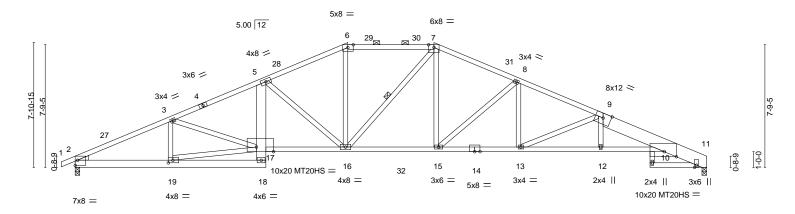
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Wed A eKn7Dslb

8.430 s Jun 2 2021 MiTek Industries, Inc ID:UOuO859_0naEM6EINHbM8DzPWBV-R8YsaeWKFbik

-0-10-8 0-10-8 6-8-5 12-1-0 17-3-4 1-7-00-11-0

Scale = 1:73.0



	L	6-8-5	12-1-0	17-3-4		22-8-12	28-1-1	1	33-3-9	34-3-8 36-5-0 38-5-0	40-0-0
		6-8-5	5-4-10	5-2-4	1	5-5-8	5-4-5		5-2-9	0-11-15 2-1-8 2-0-0	1-7-0
Plate Offse	ets (X,Y)	[2:Edge,0-3-15], [6:0-4-2	,Edge], [7:0-4-	2,Edge], [10:	0-9-5,0-3-1	4], [17:1-1-0,Edge],	[19:0-3-8,0-2-0)]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.39 15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.69 15-16	>698	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.34 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS					Weight: 209 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-0-4 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

BOT CHORD

2x4 SPF No.2 *Except* TOP CHORD

9-11: 2x10 SP 2400F 2.0E 2x4 SPF No.2 *Except*

2-18: 2x6 SPF No.2, 5-18: 2x8 SP 2400F 2.0E

10-14: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=123(LC 11)

Max Uplift 2=-101(LC 12), 11=-71(LC 12) Max Grav 2=1944(LC 17), 11=1862(LC 18)

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

TOP CHORD 2-3=-3692/267, 3-5=-3831/313, 5-6=-3154/305, 6-7=-2849/307, 7-8=-3148/303,

8-9=-3963/319, 9-10=-4971/350, 10-11=-709/76

BOT CHORD 2-19=-191/3426, 18-19=-68/1206, 5-17=0/604, 16-17=-183/3748, 15-16=-85/2841, 13-15=-168/3604, 12-13=-263/4780, 10-12=-266/4768

3-19=-448/100, 17-19=-125/2250, 3-17=0/262, 5-16=-1081/120, 6-16=-5/848, 7-16=-244/267, 7-15=-5/876, 8-15=-1021/109, 8-13=0/661, 9-13=-1290/113

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-3-4, Exterior(2R) 17-3-4 to 21-6-3, Interior(1) 21-6-3 to 22-8-12, Exterior(2R) 22-8-12 to 26-11-11, Interior(1) 26-11-11 to 39-10-4 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
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 101 lb uplift at joint 2 and 71 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.





August 5,2021

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply Summit/55 Woodside ΗΙΡ 2889809 В6 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

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.

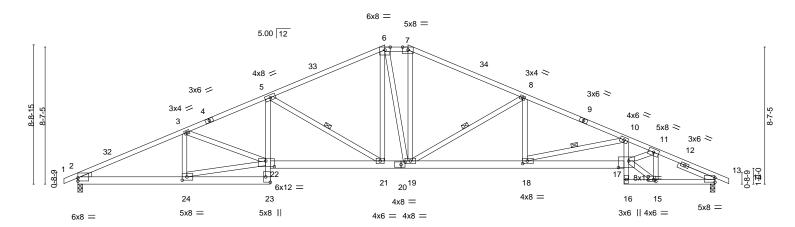
Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 **B7** Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Wed A 36-3-8 40-0-0 40-10_T8

Scale = 1:72.3





	0-0-3	11-11-7	۷-۱۱۲-۷	13-3-4	40-0-14	20-0-13	37-3-0	30-3-0	-1 0-0-0	
	6-8-5	5-2-15 0	-1 [!] -12	7-2-4	1-5-8	7-4-1	6-2-10	2-0-0	3-8-8	7
Plate Offsets (2		[6:0-4-2,Edge], [7:0-4- , [24:0-3-8,0-2-8]	2,Edge], [13:Edge,0-3-4], [15:0-1-12,0-1-	-8], [17:0-7-12,0-5-0], [18	3:0-3-8,0-2-0], [20:0-3-0),0-2-0], [22:	0-6-8,0-4-4],	

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
LUADING (psi)	3FACING- 2-0-0	COI.	DEFE. III (IOC) I/dell L/d	FLATES GRIF
TCLL 25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.32 21-22 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.60 21-22 >804 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.23 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 207 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

5-21, 8-19, 10-18

2-0-0 oc purlins (3-3-0 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

20-8-12

I UMRER-TOP CHORD

2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-23,17-20: 2x6 SPF 2100F 1.8E, 20-22: 2x6 SPF No.2

13-16: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=-136(LC 10)

Max Uplift 2=-101(LC 12), 13=-101(LC 12) Max Grav 2=1861(LC 1), 13=1861(LC 1)

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

TOP CHORD 2-3=-3524/246, 3-5=-3942/299, 5-6=-2819/271, 6-7=-2498/282, 7-8=-2817/272,

8-10=-3963/295, 10-11=-5463/354, 11-13=-3266/225 2-24=-152/3156, 23-24=-45/413, 5-22=0/655, 21-22=-149/3631, 19-21=-29/2499,

BOT CHORD 18-19=-150/3591, 17-18=-276/5158, 10-17=0/629, 15-16=-38/403, 13-15=-159/2914 **WEBS** 3-24=-688/108, 22-24=-111/2803, 3-22=0/456, 5-21=-1300/144, 6-21=-9/750,

6-19=-316/304, 7-19=-36/727, 8-19=-1257/134, 8-18=0/587, 10-18=-1618/132,

11-15=-1669/116. 11-17=-116/2381. 15-17=-141/2909

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 19-3-4, Exterior(2E) 19-3-4 to 20-8-12, Exterior(2R) 20-8-12 to 24-11-11, Interior(1) 24-11-11 to 40-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 2 and 101 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



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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



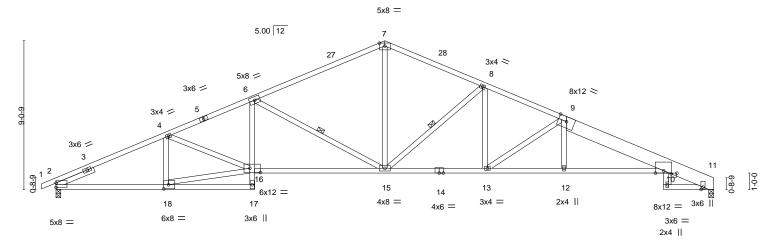
Job Truss Truss Type Qty Summit/55 Woodside 2889809 **B8 ROOF SPECIAL** 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

7-11-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:UOuO859_0naEM6EINHbM8DzPWBV-KvnNP0ZrJqCA9F YM3wh jVag97MP /IP_VX6x/7MeyrI 40-0-0 40-11₁0 30-10-13 4-9-11

Scale = 1:70.1



26-1-2

6-1-2

	6-8-5	12-1-0	20-0-0	26-1-2	30-10-13	36-11-8	40-0-0
1	6-8-5	5-4-10	7-11-0	6-1-2	4-9-11	6-0-11	3-0-8
Plate Offsets (X,Y)	[2:0-0-0,0-3-4],	[10:0-4-3,0-0-8], [16:0-	7-12,0-3-0], [18:0-3-8,0-3-0)]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACIN Plate Gr Lumber Rep Stre Code IR	ip DOL 1.15 DOL 1.15	CSI. TC 0.95 BC 0.96 WB 0.72 Matrix-AS	DEFL. in (loc Vert(LL) -0.37 15-16 Vert(CT) -0.76 15-16 Horz(CT) 0.35 11	5 >999 240 6 >632 180	PLATES MT20 Weight: 192 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

6-15, 8-15

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

6-8-5

5-4-10

9-11: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF 1650F 1.5E *Except* 6-17,14-16: 2x4 SPF No.2, 10-19: 2x6 SPF No.2

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0 **SLIDER**

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

Max Horz 2=143(LC 11)

Max Uplift 2=-101(LC 12), 11=-71(LC 12) Max Grav 2=1855(LC 1), 11=1797(LC 1)

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

TOP CHORD $2-4=-3435/251,\ 4-6=-3795/297,\ 6-7=-2663/273,\ 7-8=-2625/281,\ 8-9=-3464/298,$

9-10=-4236/304, 10-11=-682/74

BOT CHORD 2-18=-167/3089, 6-16=0/562, 15-16=-165/3523, 13-15=-115/3136, 12-13=-192/3993,

10-12=-195/3986

WEBS 4-18=-535/96, 16-18=-123/2922, 4-16=0/414, 6-15=-1334/151, 7-15=-52/1470,

8-15=-1035/122, 8-13=0/622, 9-13=-1015/92

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-10-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 2 and 71 lb uplift at joint 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.
- 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.



August 5,2021

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 Summit/55 Woodside 2889809 B9 **ROOF SPECIAL** 3 Job Reference (optional)

3-5-6

0-7-0

3-10-10

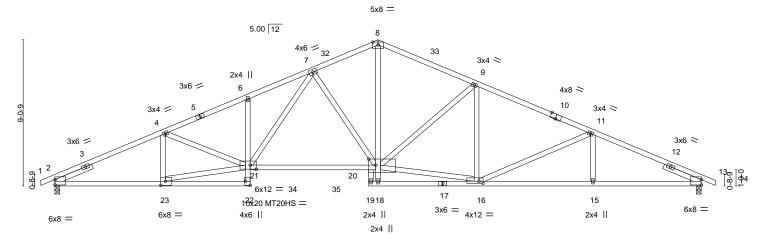
Valley Center, KS - 67147,

5-4-10

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed A 711201019hp/4100 40-0-0 40-10-8 ID:UOuO859_0naEM6EINHbM8DzPWBV-o6LldMaT47K1mFCkwnSvly 36-3-9

Scale = 1:71.3



26-1-3

6-1-3

		6-8-5	12-1-0	19-5-0	2Q-0 _f 0	26-1-3	1	33-3-9	36-3-9	40-0-0
	ı	6-8-5	5-4-10	7-4-0	0-7-0	6-1-3		7-2-5	3-0-0	3-8-7
Plate Off	sets (X,Y)	[2:0-0-0,0-4-0], [10	0:0-4-0,Edge], [13:Ed	lge,0-4-0], [16:0-3-	0,0-1-8], [20:0-5-4	,0-4-8], [21:0-4	8,0-3-0],	[22:Edge,0-3-8	3], [23:0-3-8,0-3-0]	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DE	FL. in	(loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip [DOL 1.15	TC 0.78	3 Ver	t(LL) -0.51	20-21 >	>940 240	MT20	197/144
TCDL	10.0	Lumber DO	L 1.15	BC 0.97	7 Ver	t(CT) -0.91	20-21 >	>527 180	MT20HS	148/108
BCLL	0.0 *	Rep Stress	Incr YES	WB 0.90) Hoi	rz(CT) 0.24	13	n/a n/a		
BCDL	10.0	Code IRC2	2018/TPI2014	Matrix-AS					Weight: 18	5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-5,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

Builders FirstSource (Valley Center),

6-8-5

-0-10₇8

2-22,20-21,13-17: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 **SLIDER**

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

Max Horz 2=142(LC 11)

Max Uplift 2=-98(LC 12), 13=-98(LC 12) Max Grav 2=1961(LC 17), 13=1952(LC 18)

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

TOP CHORD $2-4=-3648/248,\ 4-6=-4020/283,\ 6-7=-4075/333,\ 7-8=-2743/284,\ 8-9=-2738/277,$

9-11=-3147/262, 11-13=-3660/252

BOT CHORD 2-23=-151/3391, 6-21=-373/97, 20-21=-82/3046, 15-16=-158/3299, 13-15=-158/3299 4-23=-544/94, 21-23=-109/3350, 4-21=0/442, 7-21=-59/1347, 7-20=-982/129, WFBS

8-20=-103/1789, 9-20=-619/99, 11-16=-537/80, 16-20=-96/2824

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 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) All plates are MT20 plates unless otherwise indicated
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2 and 98 lb uplift at ioint 13.
- 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.



August 5,2021



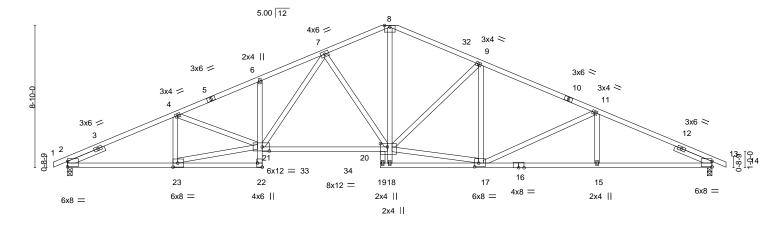
Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 B10 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI Wed A Wed Arg 62 1V2nfWW0000

8.430 s Jun 2 2021 MiTek Industries, Inc ID:UOuO859_0naEM6EINHbM8DzPWBV-1IKINoGnzSAaGZox

20-2-4 20-0-0 -0-10-8 0-10-8 19₁9₁12 0-4-12 Scale = 1:71.5 0-2-4 9x84=



		6-8-5	12-1-0	19-5-0	20-0 _r 0 :	25-7-15 ₁	32-10-8	₁ 36-8-3	40-0-0
		6-8-5	5-4-11	7-4-0	0-7-0	5-7-15	7-2-8	3-9-12	3-3-13
Plate Offs	sets (X,Y)	[2:0-0-0,0-4-0], [13:Ec	lge,0-4-0], [17:0-3-0),0-2-12], [20:0-5-4,0-2-8	3], [21:0-5-4,0-3-0)], [22:Edge,0-3	i-8], [23:0-3-8,0-3-0)]	
LOADING	3 (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	. 1.15	TC 0.79	Vert(LL)	-0.51 20-21	>941 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.91 20-21	>528 180		
BCLL	0.0 *	Rep Stress Inc	r YES	WB 0.85	Horz(CT)	0.24 13	n/a n/a		
BCDL	10.0	Code IRC2018	3/TPI2014	Matrix-AS				Weight: 185 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-5,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-22,20-21,13-16: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 **SLIDER**

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

Max Horz 2=-141(LC 10)

Max Uplift 2=-98(LC 12), 13=-98(LC 12) Max Grav 2=1961(LC 17), 13=1953(LC 18)

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

TOP CHORD 2-4=-3649/235, 4-6=-4021/266, 6-7=-4075/315, 7-8=-2753/266, 8-9=-2750/259,

9-11=-3098/246, 11-13=-3655/238

BOT CHORD 2-23=-140/3390, 6-21=-372/96, 20-21=-65/3046, 15-17=-148/3293, 13-15=-148/3293 WFBS

4-23=-544/91, 21-23=-98/3349, 4-21=0/442, 8-20=-98/1720, 7-20=-923/121,

7-21=-57/1345, 11-17=-588/85, 17-20=-81/2785, 9-20=-555/95

NOTES-

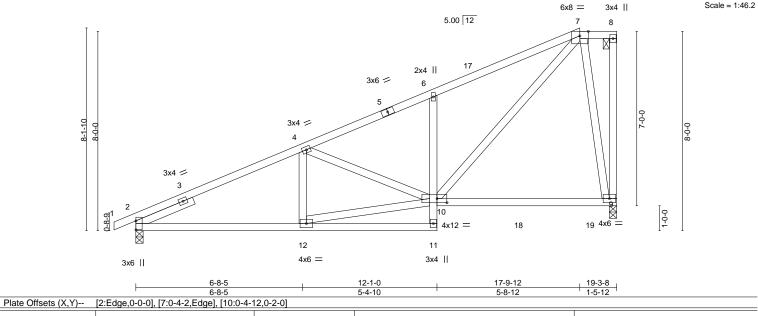
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-2-15, Interior(1) 24-2-15 to 40-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2 and 98 lb uplift at ioint 13.
- 6) 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
- 7) 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.



August 5,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 2889809 **B11** HALF HIP LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. (12/16-22/2021 Rags ID:UOuO859_0naEM6EINHbM8DzPWBV-VUuga8HQkIJRujh 7Wk0HJs2 (Strkw/688) | P2/101 Builders FirstSource (Valley Center), Valley Center, KS - 67147,



5-8-12

SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.13 9-10 >999 240	MT20 197/144
Lumber DOL 1.15	BC 0.45	Vert(CT) -0.23 9-10 >998 180	
Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03 9 n/a n/a	
Code IRC2018/TPI2014	Matrix-AS		Weight: 95 lb FT = 20%
	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	Plate Grip DOL 1.15 TC 0.33 Lumber DOL 1.15 BC 0.45 Rep Stress Incr YES WB 0.70	Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.13 9-10 >999 240 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.23 9-10 >998 180 Rep Stress Incr YES WB 0.70 Horz(CT) 0.03 9 n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=251(LC 9)

Max Uplift 9=-43(LC 12), 2=-54(LC 12) Max Grav 9=980(LC 17), 2=975(LC 17)

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

2-4=-1428/116, 4-6=-1134/118, 6-7=-1179/191 TOP CHORD

BOT CHORD 2-12=-244/1383, 6-10=-404/141

WEBS 10-12=-203/1391, 4-10=-363/72, 7-10=-150/1320, 7-9=-871/290

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-9-12, Exterior(2E) 17-9-12 to 19-1-12 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 grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 9 and 54 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

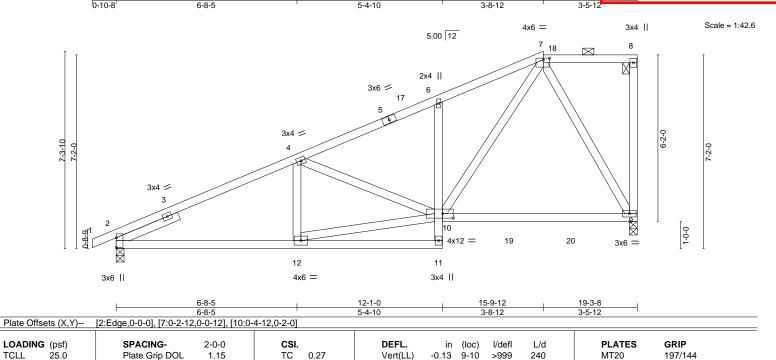
2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied.

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 2889809 B12 HALF HIP LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arts (12/18/23/2021) Rage 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-zgS2oUI2V3RIWty 3RXWs4bz0F1kFzyi2Vjdzawy DiM Builders FirstSource (Valley Center), Valley Center, KS - 67147, 12-1-0 15-9-12



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.22

0.03

9-10

9

>999

n/a

180

n/a

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

Rigid ceiling directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=222(LC 9)

Max Uplift 9=-42(LC 12), 2=-56(LC 12)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 9=960(LC 17), 2=978(LC 17)

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

2-4=-1437/120, 4-6=-1138/121, 6-7=-1139/170 TOP CHORD **BOT CHORD** 2-12=-251/1383, 6-10=-309/118, 9-10=-150/448

WEBS 10-12=-218/1409, 4-10=-373/74, 7-10=-113/1100, 7-9=-836/207

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-9-12, Exterior(2E) 15-9-12 to 19-1-12 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 grip DOL=1.60

ВС

WB

Matrix-AS

0.48

0.66

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 9 and 56 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION

FT = 20%

Weight: 92 lb

Structural wood sheathing directly applied, except end verticals, and

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 B13 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Are (12/16)24-2021 Page ID:UOuO859_0naEM6EINHbM8DzPWBV-Rt0R?qlgGNZ970XVq92mPH77 RB /TZZHA)/WZM/D 13-9-12 5-4-10 1-8-12

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Scale = 1:39.4 6x8 = 3x4 II 5.00 12 18 ≥0 □ 19 2x4 || 3x6 = 3x4 = 6-5-10 6-4-0 3x4 = 3 10 9-0-4x12 = 3x6 =12 4x6 = 2x4 || 3x6 II 13-9-12 Plate Offsets (X,Y)--[2:Edge,0-0-0], [7:0-4-2,Edge], [10:0-5-0,0-2-0] **PLATES** GRIP SPACING-CSI. DEFL. in (loc) I/def L/d 25.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) -0.08 9-10 >999 240 MT20 197/144

LOADING (psf) TCLL TCDL 10.0 Lumber DOL 1.15 ВС 0.40 Vert(CT) -0.189-10 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.83 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 90 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=193(LC 9)

Max Uplift 9=-42(LC 9), 2=-57(LC 12) Max Grav 9=860(LC 1), 2=924(LC 1)

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

2-4=-1339/129, 4-6=-1060/130, 6-7=-983/151 TOP CHORD

BOT CHORD 2-12=-251/1236, 9-10=-179/661

WEBS 10-12=-224/1229, 4-10=-355/74, 7-10=-70/706, 7-9=-873/184

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-9-12, Exterior(2R) 13-9-12 to 18-0-11, Interior(1) 18-0-11 to 19-1-12 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 grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 9 and 57 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



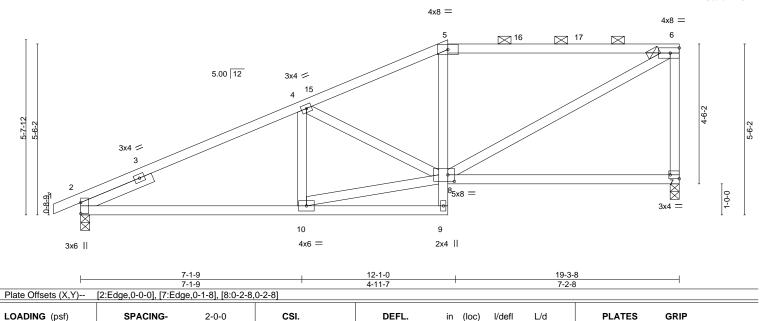
Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2889809 **B14** HALF HIP LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (12/18/25/2021) Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-v3apDAJI1gh? A6iBsZ (x) (B) siaiZAbV (63/6) (D) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

11-10-0

4-8-7

Scale = 1:37.1

RELEASE FOR CONSTRUCTION



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.13

-0.26

0.02

7-8

7-8

>999

>887

n/a

240

180

n/a

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

Rigid ceiling directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

10.0

0.0

-0-10-8 0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=164(LC 9)

Max Uplift 7=-48(LC 9), 2=-59(LC 12) Max Grav 7=858(LC 23), 2=923(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

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

TOP CHORD $2-4=-1302/136,\ 4-5=-1078/159,\ 5-6=-955/165,\ 6-7=-772/182$

BOT CHORD 2-10=-244/1202

WEBS 8-10=-247/1196, 4-8=-286/47, 6-8=-198/1021

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-0, Exterior(2R) 11-10-0 to 16-0-15, Interior(1) 16-0-15 to 19-1-12 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 grip DOL=1.60

TC

ВС

WB

Matrix-AS

0.80

0.46

0.29

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 7 and 59 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



197/144

FT = 20%

MT20

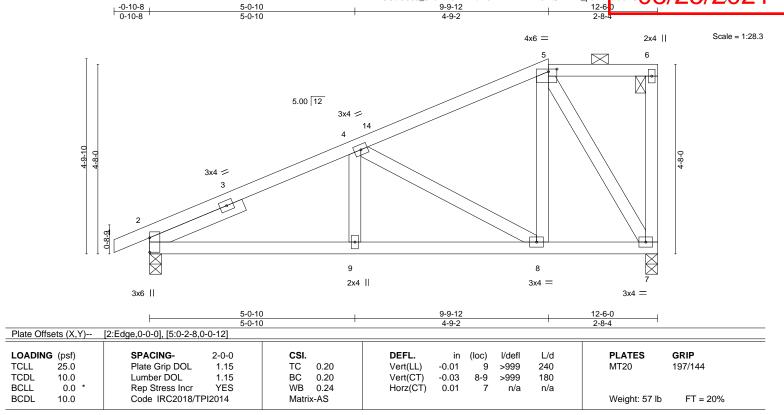
Structural wood sheathing directly applied, except end verticals, and

Weight: 83 lb

August 5,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2889809 B15 HALF HIP LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Avg. 612/16/2020/18/2020 ID:UOuO859_0naEM6EINHbM8DzPWBV-NF8BQWKwn_psNKI ula5EUD 105/5/MERJ/dpf/DD Builders FirstSource (Valley Center), Valley Center, KS - 67147,



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=155(LC 11)

Max Uplift 2=-46(LC 12), 7=-26(LC 9)

Max Grav 2=619(LC 1), 7=554(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-727/129, 4-5=-372/103

2-9=-264/713, 8-9=-264/713, 7-8=-137/274 BOT CHORD

WEBS 4-8=-488/144, 5-8=-15/314, 5-7=-544/183

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-9-12, Exterior(2E) 9-9-12 to 12-4-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2 and 26 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

August 5,2021



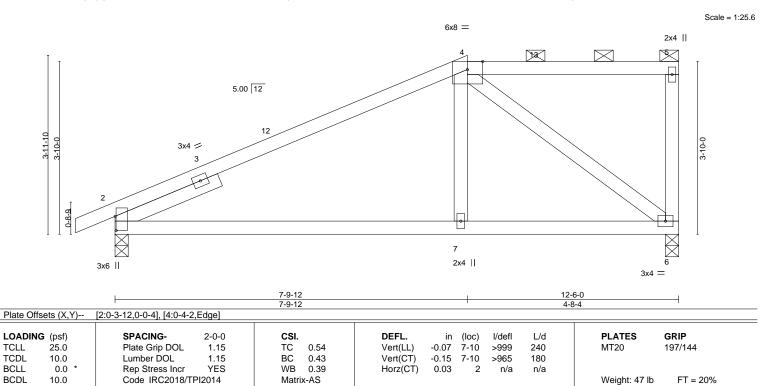
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2889809 **B16** HALF HIP LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Are 12/18/27-2021 Fage 1/ ID:UOuO859_0naEM6EINHbM8DzPWBV-rSiZdsLYYIxj?L F4IHcT who yex word back tribip Builders FirstSource (Valley Center), Valley Center, KS - 67147, -0-10-8 0-10-8 7-9-12 7-9-12



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=126(LC 11) Max Uplift 2=-48(LC 12), 6=-31(LC 9)

Max Grav 2=619(LC 1), 6=554(LC 1)

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

TOP CHORD 2-4=-600/130 **BOT CHORD**

2-7=-198/543, 6-7=-200/535 **WEBS** 4-7=0/286, 4-6=-670/209

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C: Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-9-12, Exterior(2E) 7-9-12 to 12-4-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2 and 31 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION

August 5,2021



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

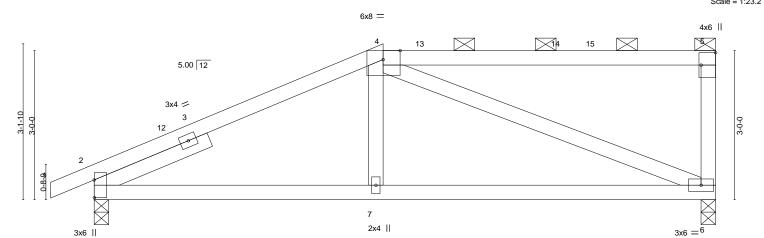


Job Truss Truss Type Qty Summit/55 Woodside 2889809 B17 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/46/8/2011 Rags ID:UOuO859_0naEM6EINHbM8DzPWBV-KeFxrCMAJb3aced Hs?7iZ Informewke ColykovyD 12-6-0

Scale = 1:23.2



I	5-9-12 5-9-12		+	———			
Plate Offsets (X,Y)	[2:Edge,0-0-0], [4:0-4-2,Edge], [5:Edge,	0-3-8]			6-8-4		
LOADING (psf) TCLL 25.0 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 0.55 BC 0.34 WB 0.59 Matrix-AS	DEFL. in Vert(LL) -0.05 Vert(CT) -0.10 Horz(CT) 0.01	(loc) I/defl 6-7 >999 6-7 >999 6 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=97(LC 11)

Max Uplift 2=-49(LC 12), 6=-35(LC 9) Max Grav 2=619(LC 1), 6=554(LC 1)

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

TOP CHORD 2-4=-701/161

BOT CHORD 2-7=-211/700, 6-7=-215/694 **WEBS** 4-7=0/259, 4-6=-661/188

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12, Exterior(2R) 5-9-12 to 10-0-11, Interior(1) 10-0-11 to 12-4-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2 and 35 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

August 5,2021



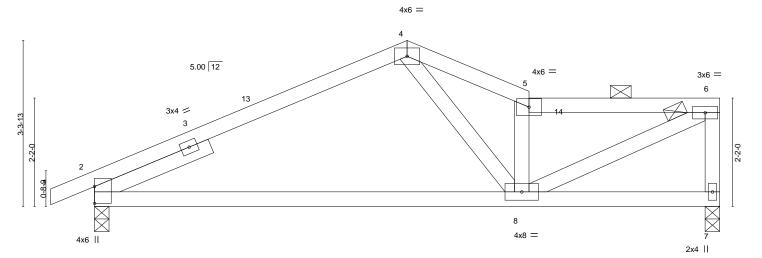
Job Truss Truss Type Qty Summit/55 Woodside 2889809 **B18 ROOF SPECIAL** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Apg. 612/16/29/2021 Fact 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-oqpK2YMp4vBREoPTQie 61 50/1/AQ3/14/2/DDG Builders FirstSource (Valley Center), Valley Center, KS - 67147,

6-3-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

6 2 48 39 2021 Rags

Scale = 1:23.0



2-5-4

Plate Offsets (X,Y)	[2:Edge,0-0-0]	004		0 0 12
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.09 8-11 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.20 8-11 >732 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.02 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=85(LC 11)

Max Uplift 7=-23(LC 12), 2=-50(LC 12) Max Grav 7=554(LC 1), 2=619(LC 1)

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

TOP CHORD 2-4=-645/199, 4-5=-877/221, 5-6=-828/190, 6-7=-542/164

BOT CHORD 2-8=-222/595

WEBS 4-8=-23/372, 5-8=-489/164, 6-8=-210/878

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-3-0, Exterior(2E) 6-3-0 to 8-8-4 Interior(1) 8-8-4 to 12-4-4 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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 7 and 50 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

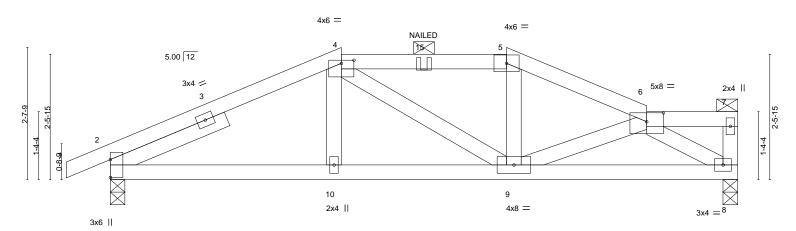
Rigid ceiling directly applied.

August 5,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 2889809 B19 Roof Special Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. 12/19/30/2021 Flags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-G1NiGNRrDJIsx, 1_P9AeV01x89z2M4Rbbq2b01DF Builders FirstSource (Valley Center), Valley Center, KS - 67147, 12-6-0 7-10-12

Scale = 1:23.0



3-3-8

	4-7-4	7-10-12	10-8-4	12-6-0
	4-7-4	3-3-8	2-9-8	1-9-12
Plate Offsets (X,Y	- [2:Edge,0-0-0], [4:0-3-0,0-0-12], [6:0-4-0,0-2-2]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15 T Lumber DOL 1.15 B	C 0.30 Vert(LL) -0.02		
BCDL 10.0	· ·	atrix-MS		ht: 48 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=40(LC 7)

Max Uplift 8=-77(LC 5), 2=-91(LC 8)

Max Grav 8=588(LC 1), 2=653(LC 1)

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

4-7-4

2-4=-851/117, 4-5=-793/118, 5-6=-887/114 TOP CHORD **BOT CHORD** 2-10=-100/793, 9-10=-102/789, 8-9=-115/754

WEBS 6-8=-868/133

- 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=15ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 8 and 91 lb uplift at joint 2.
- 6) 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-11=-20

Concentrated Loads (lb) Vert: 15=-68(F)

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

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

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7.

August 5,2021



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 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



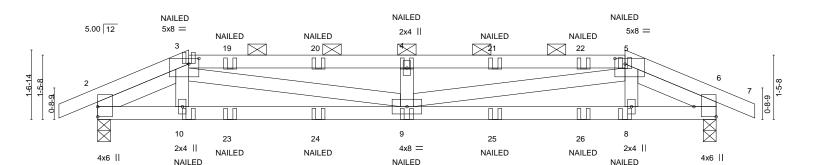
Job Truss Truss Type Qty Summit/55 Woodside 2889809 C₁ Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc 8.430 s Jun 2 2021 MiTek Industries, Ind. Wed Apg ID:UOuO859_0naEM6EINHbM8DzPWBV-kUTV21bjclal0jM71BUONL

4-11-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

02/40-49 0/402-112 Wed A

Scale = 1:26.1



11-11-4

4-11-4

	2-0-12 2-0-12		7-0-0 4-11-4			11-11-4 4-11-4		14-0-0	
Plate Offsets (X,Y)	[2:Edge,0-0-0], [3:0-2-1	2,0-1-8], [5:0-2-	12,0-1-8], [6:Edge,0-6-0]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 NO FPI2014	CSI. TC 0.47 BC 0.44 WB 0.24 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l- -0.09 -0.17 0.01	oc) I/defl 9 >999 9 >997 6 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 54 lb	GRIP 197/144 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD

-0-10-8 0-10-8

2-0-12

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

SLIDER Left 2x4 SPF No.2 1-11-8, Right 2x4 SPF No.2 1-11-8

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

Max Horz 2=-18(LC 30)

Max Uplift 2=-113(LC 4), 6=-113(LC 5) Max Grav 2=689(LC 1), 6=689(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1215/182, 3-4=-2057/352, 4-5=-2057/352, 5-6=-1215/183 **BOT CHORD** 2-10=-122/836, 9-10=-122/836, 8-9=-123/836, 6-8=-123/836

WEBS 3-9=-177/971, 4-9=-292/124, 5-9=-176/971

- 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=15ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2 and 113 lb uplift at joint 6.
- 6) 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 11-15=-20 Concentrated Loads (lb)

Vert: 10=1(B) 9=1(B) 8=1(B) 23=1(B) 24=1(B) 25=1(B) 26=1(B)



Structural wood sheathing directly applied or 5-2-7 oc purlins, except

2-0-0 oc purlins (3-8-1 max.): 3-5.

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

August 5,2021



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 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 Summit/55 Woodside HIP 2889809 C2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed App 62 ID:UOuO859_0naEM6EINHbM8DzPWBV-Ch1tFNcLN2icdsx, bv?dvZuNsm/2

2-11-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2 LEE'S SUMMIT, MISSOURI

14-0-0

Wed A

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-11-0 max.): 4-5.

Rigid ceiling directly applied.

Scale = 1:26.1



2-11-4

	4-0-12 4-0-12		5-10-8	4-0-12	
Plate Offsets (X,Y)	[2:Edge,0-0-0], [7:Edge,0-0-0]		0.10.0	4012	
LOADING (psf) TCLL 25.0 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 0.54 BC 0.40 WB 0.04 Matrix-AS	DEFL. in (loc) l/defl Vert(LL) -0.08 9-10 >999 Vert(CT) -0.13 9-10 >999 Horz(CT) 0.03 7 n/a	180	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

-0-10-8 0-10-8

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

4-0-12

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=33(LC 11)

Max Uplift 2=-52(LC 12), 7=-52(LC 12)

Max Grav 2=691(LC 1), 7=691(LC 1)

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

2-4=-1033/213, 4-5=-938/221, 5-7=-1033/213 TOP CHORD 2-10=-133/944, 9-10=-137/938, 7-9=-132/944 BOT CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-12, Exterior(2R) 4-0-12 to 8-3-11, Interior(1) 8-3-11 to 9-11-4, Exterior(2R) 9-11-4 to 14-0-0, Interior(1) 14-0-0 to 14-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 52 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 C3 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc

6-0-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Wed A 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed April ID:UOuO859_0naEM6EINHbM8DzPWBV-gtbGSjd_8MqSF0WV9; WsSml

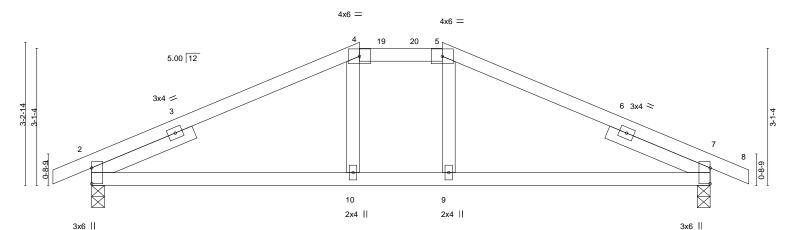
6-0-12

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Scale = 1:26.1



7-11-4

1-10-8

-	6-0-12 6-0-12		7-11-4 1-10-8		14-0-0 6-0-12		——
Plate Offsets (X,Y)							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL)	-0.08 10-13 >999	240	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT)	-0.11 10-13 >999	180		
3CLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.02 7 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 47 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

-0-10-8 0-10-8

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=-46(LC 10)

Max Uplift 2=-52(LC 12), 7=-52(LC 12) Max Grav 2=691(LC 1), 7=691(LC 1)

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

2-4=-855/193, 4-5=-790/203, 5-7=-855/193 TOP CHORD BOT CHORD 2-10=-92/794, 9-10=-93/790, 7-9=-91/794

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-12, Exterior(2E) 6-0-12 to 7-11-4, Exterior(2R) 7-11-4 to 12-2-3, Interior(1) 12-2-3 to 14-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 52 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW 2889809 C4 COMMON Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (27195) 2010:UOuO859_0naEM6EINHbM8DzPWBV-838eg3dcvgy, A5iiK1127 ji 300pg 2017

DEVELOPMENT SERVICES 4 LEF'S SUMMIT, MISSOURI 6 2 148 5 1 2021 Rage 1

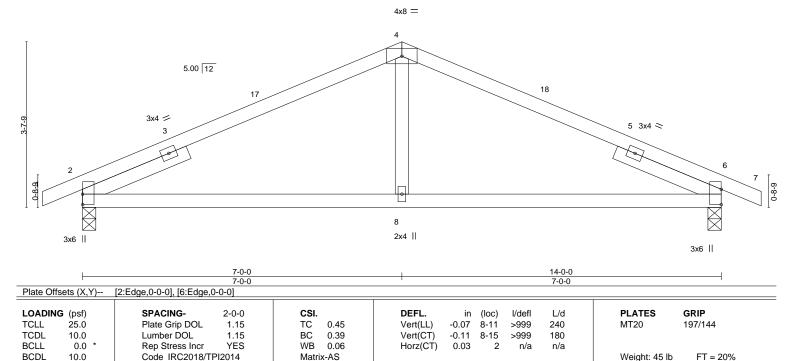
7-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

RELEASE FOR CONSTRUCTION

Scale = 1:25.3



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

0-10-8

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=54(LC 11)

Max Uplift 2=-52(LC 12), 6=-52(LC 12) Max Grav 2=691(LC 1), 6=691(LC 1)

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

TOP CHORD 2-4=-814/228, 4-6=-814/228 **BOT CHORD** 2-8=-106/751. 6-8=-106/751

WEBS 4-8=0/288

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 52 lb uplift at
- 6) 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.
- 7) 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.



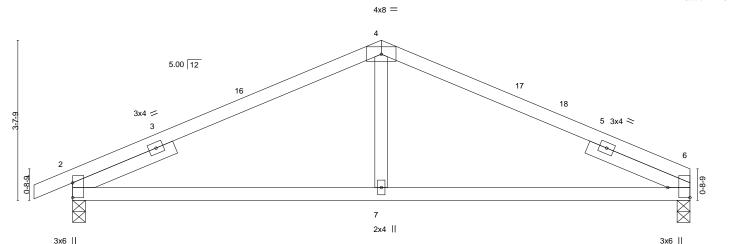
August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside **COMMON SUPPORTED GAB** 2889809 C5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS LEE'S SUMMIT. MISSOURI

Scale = 1:26.1



	/-0-	7-0-0				14-0-0					
	7-0-	0	I				7-0-0		1		
Plate Offsets (X,Y)	[2:Edge,0-0-0], [6:Edge,0-6-0]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.46	Vert(L	L) -0.07	7-10	>999	240	MT20	197/144		
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(C	Ť) -0.12	7-10	>999	180				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(0	(T) 0.02	2	n/a	n/a				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS						Weight: 44 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=53(LC 11)

Max Uplift 6=-25(LC 12), 2=-53(LC 12) Max Grav 6=628(LC 1), 2=693(LC 1)

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

2-4=-819/229, 4-6=-841/233 TOP CHORD **BOT CHORD** 2-7=-133/756, 6-7=-133/756

WEBS 4-7=0/288

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 6 and 53 lb uplift at
- 6) 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.
- 7) 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 C6 **ROOF SPECIAL** Job Reference (optional) ID:UOuO859_0naEM6EINHbM8DzPWBV-5SGO5ifsRHD16UF4ql4Z4Fq2 105 HmcvBy down Discounting to the control of the contr Builders FirstSource (Valley Center), Valley Center, KS - 67147,

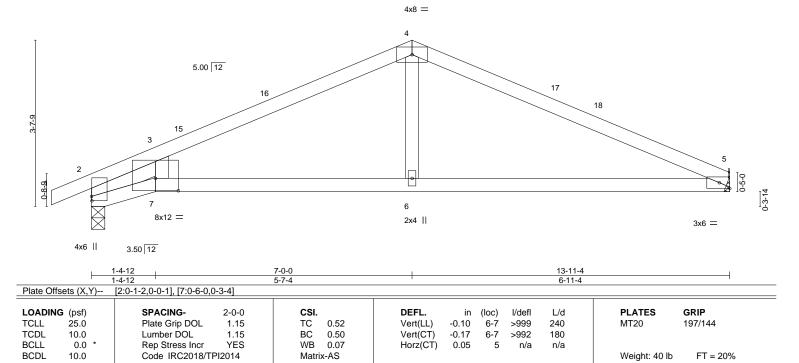
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 6 LEE'S SUMMIT. MISSOURI

6-11-4

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:25.2



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

1-4-12

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 1-7-0

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

Max Horz 2=53(LC 11)

Max Uplift 5=-25(LC 12), 2=-53(LC 12) Max Grav 5=625(LC 1), 2=690(LC 1)

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

2-3=-761/151, 3-4=-965/246, 4-5=-1007/251 TOP CHORD **BOT CHORD** 2-7=-76/812, 6-7=-152/857, 5-6=-152/857

WEBS 4-6=0/308

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 13-11-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 53 lb uplift at joint 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) 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 C7 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-0-12

7-0-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

8.43U s Jun 2 2021 MiTek Industries, Inc ID:UOuO859_0naEM6EINHbM8DzPWBV-1qO9WRg6yuTlMn(TxA619 vy SD8/vg/d/ ?) Visay D 10-8-12 3-8-12

Scale = 1:25.6

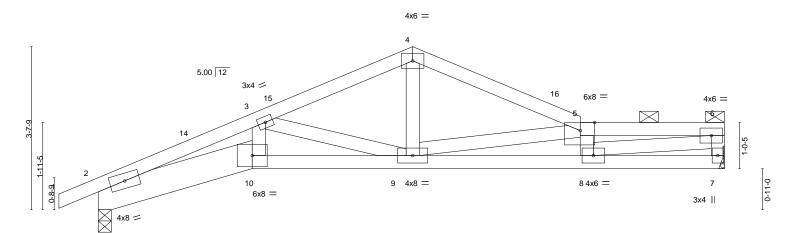


Plate Offsets (X,Y)--[5:0-3-14,Edge] **PLATES** LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.08 8-9 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.52 Vert(CT) -0.148-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.05 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

10-0-12

10-8-12

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

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

LUMBER-

TOP CHORD 2x4 SPF No.2

0-10-8

3-11-4

3.50 12

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

2-10: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=63(LC 11)

Max Uplift 7=-26(LC 12), 2=-52(LC 12) Max Grav 7=619(LC 1), 2=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1783/457, 3-4=-1088/280, 4-5=-1028/276, 5-6=-1675/383, 6-7=-540/148

BOT CHORD 2-10=-467/1635, 9-10=-451/1562, 8-9=-423/1743

WEBS 3-10=-42/301, 3-9=-609/223, 4-9=-77/503, 5-9=-843/229, 5-8=-390/156, 6-8=-346/1516

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 13-9-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 52 lb uplift at ioint 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) 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.



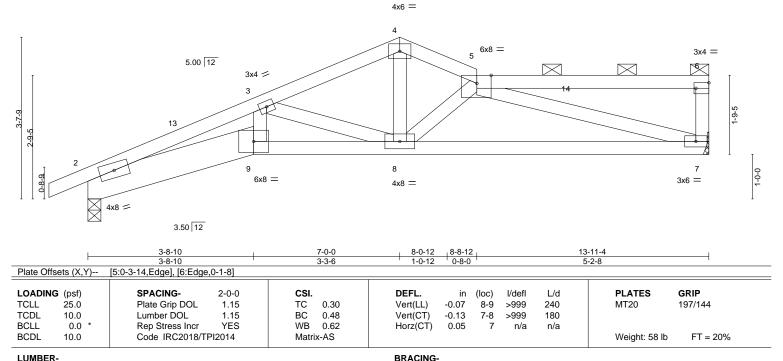
August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 C8 **ROOF SPECIAL** Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS® LEE'S SUMMIT, MISSOURI

Scale = 1:25.9





TOP CHORD

BOT CHORD

LUMBER-

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

2-9: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=76(LC 11)

Max Uplift 7=-26(LC 12), 2=-51(LC 12) Max Grav 7=619(LC 1), 2=684(LC 1)

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

TOP CHORD 2-3=-1823/502, 3-4=-1064/257, 4-5=-1080/281 BOT CHORD 2-9=-557/1674, 8-9=-531/1591, 7-8=-384/1306

WEBS 3-9=-86/336, 3-8=-668/284, 4-8=-125/657, 5-8=-468/173, 5-7=-1228/367

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2E) 7-0-0 to 8-8-12, Interior(1) 8-8-12 to 13-9-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 51 lb uplift at ioint 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) 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.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

August 5,2021



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 and truss systems, see

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/55 Woodside 2889809 CJ1 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Am (12/1857-2021 Face 1/2) ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-zDWvw6iNUWjTbt Yr3a8V FF 77gvDz3 sp hrzy Dlog Builders FirstSource (Valley Center), Valley Center, KS - 67147,

1-4-15

1-8-7

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS 9 LEE'S SUMMIT. MISSOURI

7-6-1

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

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

6-0-0 oc bracing: 3-7.

Scale = 1:18.2 5 2x4____ NAILED NAILED 12 3.54 12 1-11-2 NAILED NAILED 5xB NAILED 7 13 9 NAILED 2x4 || 8 2x4 || NAILED NAILED 4-4-11 [3:0-4-0,0-3-4]

2-0-10

Plate Offsets (X,Y)--SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.63 Vert(LL) -0.10 8 >832 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.28 Vert(CT) -0.188 >475 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) 0.09 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 27 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

1-2-14

Max Horz 2=76(LC 8)

Max Uplift 2=-39(LC 8), 7=-10(LC 8) Max Grav 2=437(LC 1), 7=394(LC 1)

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

WEBS 4-7=-302/46

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 10 lb uplift at joint 7.
- 6) 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.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-20, 8-9=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 8=2(F=1, B=1) 12=-14(F=-7, B=-7) 13=-71(F=-35, B=-35)



August 5,2021

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 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 Summit/55 Woodside 2889809 CJ2 JACK-OPEN 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc

1-2-14

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT. MISSOURI

Wed Arg 612/18-57-2021 Rags 1 r3a8VEF1077 KD20ISD nmy/yiDth ID:UOuO859_0naEM6EINHbM8DzPWBV-zDWvw6iNUWjTb5

Scale = 1:10.5 3.54 12 2x4 || 2 1-6-7 0-8-9 2x4 =

2-9-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 240 197/144 **TCLL** TC 0.12 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=49(LC 12) Max Uplift 5=-49(LC 12), 3=-16(LC 12)

Max Grav 5=239(LC 1), 3=68(LC 1), 4=46(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5 and 16 lb uplift at joint 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.



Structural wood sheathing directly applied or 2-9-8 oc purlins,

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

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 CJ3 JACK-OPEN 3 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 LEE'S SUMMIT. MISSOURI

6 2 48 58 2021 Rags Wed A

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg ID:UOuO859_0naEM6EINHbM8DzPWBV-RP3H8Sj?FprKDF72dlfkn\$Y 2-7-6 2-7-6 1-2-14

Scale = 1:10.3 3 3x4 3.54 12 0-4-1 2x4 || -5-13 1-5-13 1-1-11 0-8-9 5 2x4 || 2x4 =

Plate Offs	ets (X,Y)	[3:0-3-0,0-0-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 6=0-4-9, 5=Mechanical, 3=Mechanical

Max Horz 6=46(LC 12)

Max Uplift 6=-50(LC 12), 3=-12(LC 12) Max Grav 6=226(LC 1), 5=50(LC 3), 3=53(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 6 and 12 lb uplift at joint 3.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Structural wood sheathing directly applied or 2-7-6 oc purlins,

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

August 5,2021

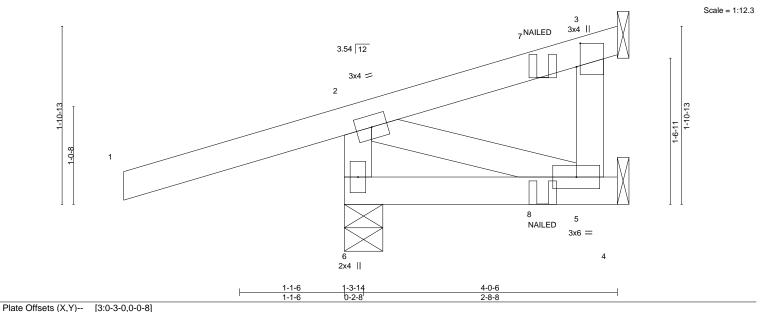


Job Truss Truss Type Qty Summit/55 Woodside 2889809 CJ4 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Aps 12/4659/2021 Tags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-wcdfLokd07zBq*iEA?BzJqt-Sp2ibUtBjqt-gvDJq 4-0-6 1-2-14 1-3-14 2-8-8

62/48-59-2021 Rage Wed A



LOADING (not)	SPACING- 2-0-0	CSI.	DEFL.	in (las)	l/defl L/d	PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	Col.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL)	-0.00 5-6	>999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	-0.00 5-6	>999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT)	-0.00 3	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 6=0-4-15, 5=Mechanical, 3=Mechanical

Max Horz 6=51(LC 8)

Max Uplift 6=-104(LC 8), 3=-14(LC 6)

Max Grav 6=374(LC 1), 5=62(LC 3), 3=51(LC 23)

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

WEBS 2-6=-350/119

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 6 and 14 lb uplift at joint 3.
- 6) 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.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-6=-20 Concentrated Loads (lb) Vert: 8=1(B)



Structural wood sheathing directly applied or 4-0-6 oc purlins.

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

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 CJ6 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT. MISSOURI

Scale = 1:18.2

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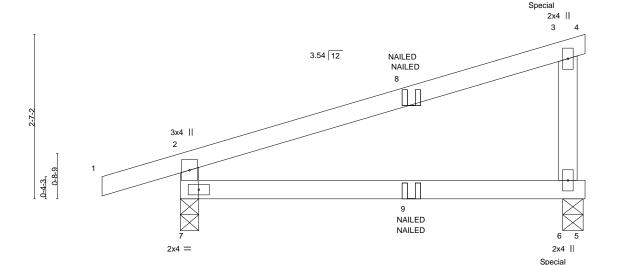
3-2-5

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

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

except end verticals.

Wed Are (12/46-00-2021) Fage (1 QkjiCstld (n) (xxxkZm) (N2yiDin



	-	3-2-5 3-2-5	3-1-15 0-0-6
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. DEFL. TC 0.66 Vert(LL BC 0.38 Vert(CT WB 0.04 Horz(C Matrix-MS) -0.14 6-7 >530 180

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 6=0-3-14, 7=0-3-8 (size) Max Horz 6=80(LC 4)

Max Uplift 6=-59(LC 8), 7=-88(LC 4) Max Grav 6=347(LC 1), 7=377(LC 1)

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

1-2-13

TOP CHORD 2-7=-325/123

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 6 and 88 lb uplift at joint 7.
- 5) 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.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 46 lb up at 5-10-10 on top chord, and 31 lb down at 5-10-10 on bottom chord. The design/selection of such connection device(s) is the
- 8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-24(B) 3=-53(B) 9=-2(F=-1, B=-1)



August 5,2021





Job Truss Truss Type Qty Summit/55 Woodside 2889809 CJ7 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-2-5

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 LEE'S SUMMIT. MISSOURI

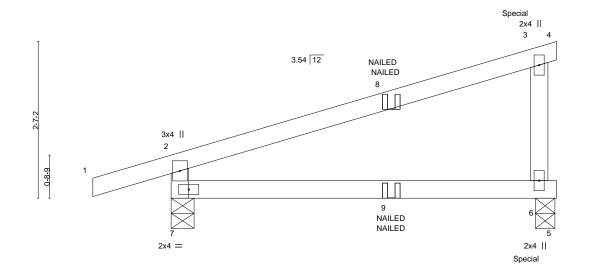
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Am (12/10-01-2021-Rage 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-s_IQmUltYkDv4is;IQDRF64 nc; F925un04zyyr bhn 3-2-5

except end verticals.

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

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

Scale = 1:19.1



	 	3-2-5 3-2-5	6-4-4 3-1-15	6-4 ₁ 10 0-0-6
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. DEFL. TC 0.65 Vert(LL) BC 0.38 Vert(CT WB 0.04 Horz(CT Matrix-MS Horz(CT) -0.13 6-7 >537 180	PLATES GRIP MT20 197/144 Weight: 19 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 7=0-4-9, 6=0-3-14 (size)

Max Horz 7=79(LC 8) Max Uplift 7=-47(LC 8), 6=-26(LC 8) Max Grav 7=382(LC 1), 6=347(LC 1)

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

1-3-9

TOP CHORD 2-7=-330/90

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 7 and 26 lb uplift at joint 6.
- 6) 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 53 lb up at 5-10-10 on top chord, and 31 lb down at 5-10-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-24(F) 3=-54(F) 9=-2(F=-1, B=-1)



August 5,2021



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

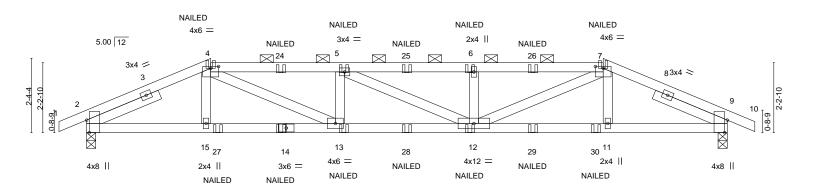


Job Truss Truss Type Qty Summit/55 Woodside 2889809 D2 Hip Girder Job Reference (optional) 8.43U s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/16/10/2021 Rags ID:UOu0859_0naEM6EINHbM8DzPWBV-5joqfZsWQVMdf52LKptYG_vwEya/noLTsP/yk/MyDt 12-3-8 16-4-12 20-4-0 21-2-8 4-3-0 4-1-4 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-1-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 LEE'S SUMMIT, MISSOURI

Scale = 1:36.6



		3-11-4	8-0	-8	12-3-8		16-4-	12	20-4-0	
	1	3-11-4	4-1	-4	4-3-0	'	4-1-	4	3-11-4	l
Plate Offsets	(X,Y)	[2:0-4-12,Edge], [4:0-3	-0,0-0-12], [7:0-3	-0,0-0-12], [9:0	-4-12,Edge]					
LOADING (p	osf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL 2	5.Ó	Plate Grip DOL	1.15	TC 0	0.70 Vert(LL)	-0.17 12-1	3 >999	240	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC 0	0.94 Vert(CT)	-0.32 12-1	3 >772	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0	0.36 Horz(CT)	0.06	9 n/a	n/a		
BCDL 10	0.0	Code IRC2018/	TPI2014	Matrix-N	//S				Weight: 78 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (2-9-3 max.): 4-7.

WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 7-7-10 oc bracing: 12-13.

Max Uplift 2=-229(LC 8), 9=-229(LC 9)

Max Grav 2=1214(LC 1), 9=1215(LC 1)

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

 $2\text{-}4\text{=-}2088/403,\ 4\text{-}5\text{=-}3159/647,\ 5\text{-}6\text{=-}3154/645,\ 6\text{-}7\text{=-}3157/646,\ 7\text{-}9\text{=-}2090/403}$ TOP CHORD **BOT CHORD** 2-15=-343/1894, 13-15=-347/1893, 12-13=-603/3156, 11-12=-334/1894, 9-11=-329/1895

WEBS 4-13=-297/1450, 5-13=-475/179, 6-12=-462/179, 7-12=-296/1447

REACTIONS.

0-10-8

3-11-4

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

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=30(LC 29)

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 2 and 229 lb uplift at joint 9.
- 6) 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 7-10=-70, 16-20=-20

Concentrated Loads (lb)

Vert: 4=-44(F) 7=-44(F) 14=-24(F) 13=-24(F) 5=-44(F) 6=-44(F) 12=-24(F) 24=-44(F) 25=-44(F) 26=-44(F) 27=-24(F) 28=-24(F) 29=-24(F) 30=-24(F)



August 5,2021



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



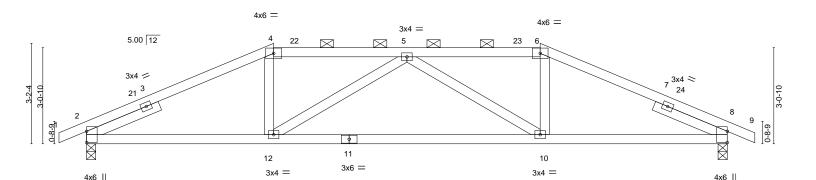
Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 D3 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc o.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. of 2746 172 ID:UOuO859_0naEM6EINHbM8DzPWBV-ZvMCsvt9BpUUGFdYt KonpCabyeNth Vtm/42 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

10-2-0

4-2-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT, MISSOURI

Scale = 1:36.6



4-2-12

	5-11-4	14-4-12		20-4-0	
	5-11-4	8-5-8	l l	5-11-4	
Plate Offsets (X,Y)	[2:Edge,0-0-0], [8:Edge,0-0-0]				
LOADING (psf) TCLL 25.0 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	BC 0.62 Vert(CT) -0	in (loc) I/defl 1.17 10-12 >999 1.36 10-12 >674 1.05 8 n/a		GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-9-9 max.): 4-6.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 TOP CHORD

0-10-8

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

5-11-4

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=45(LC 11)

Max Uplift 2=-64(LC 12), 8=-64(LC 12)

Max Grav 2=976(LC 1), 8=976(LC 1)

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

2-4=-1569/170, 4-5=-1391/188, 5-6=-1391/188, 6-8=-1569/170 TOP CHORD

BOT CHORD 2-12=-87/1406, 10-12=-158/1679, 8-10=-92/1406 **WEBS** 4-12=0/369, 5-12=-453/89, 5-10=-453/89, 6-10=0/369

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4, Exterior(2R) 5-11-4 to 10-2-0, Interior(1) 10-2-0 to 14-4-12, Exterior(2R) 14-4-12 to 18-7-11, Interior(1) 18-7-11 to 21-2-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 64 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





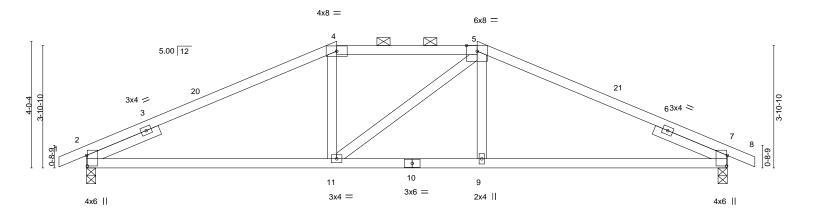
Job Truss Truss Type Qty Summit/55 Woodside HIP 2889809 D4 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A Builders FirstSource (Valley Center), Valley Center, KS - 67147,

7-11-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Ars (1246) 32071 ID:UOuO859_0naEM6EINHbM8DzPWBV-VITyHauPjQkCWYmw?xRFudf\$EB5Wzonii) kcl

Scale = 1:36.6



12-4-12

4-5-8

		7-11-4		12-4-12				2	20-4-0	
	'	7-11-4		4-5-8	'			7	7-11-4	<u> </u>
Plate Offs	ets (X,Y)	[2:0-4-0,0-0-4], [5:0-4-2,Edge], [7:0-4	-0,0-0-4]							
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0	0.55 Vert(LL)	-0.07	9-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0	0.48 Vert(CT)	-0.15	9-18	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0	0.12 Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-A	AS \					Weight: 70 lb	FT = 20%
BCDL	10.0	Code IRC2018/TPI2014	Matrix-A	AS					Weight: 70 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-11-13 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

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

0-10-8

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-59(LC 10)

Max Uplift 2=-64(LC 12), 7=-64(LC 12) Max Grav 2=976(LC 1), 7=976(LC 1)

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

2-4=-1399/199, 4-5=-1268/225, 5-7=-1399/200 2-11=-98/1273, 9-11=-106/1268, 7-9=-104/1273 TOP CHORD BOT CHORD

NOTES-

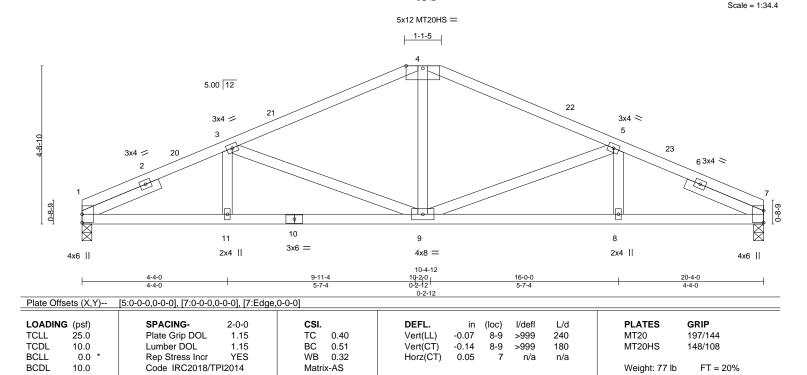
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-11-4, Exterior(2E) 7-11-4 to 12-4-12, Exterior(2R) 12-4-12 to 16-7-11, Interior(1) 16-7-11 to 21-2-8 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 64 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS8 2889809 D5 Hip LEF'S SUMMIT, MISSOURI Job Reference (optional) (12/46) 4-2021 Rago (11) KG: Cx01/19/2y Di Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg ID:UOuO859_0naEM6EINHbM8DzPWBV-zU1KVwv1Uks31iL6ZfyUQc 0-2-12



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 7=0-3-9 Max Horz 1=-69(LC 10)

Max Uplift 1=-38(LC 12), 7=-38(LC 12)

Max Grav 1=915(LC 1), 7=915(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1591/165, 3-4=-1221/161, 4-5=-1224/161, 5-7=-1593/165 **BOT CHORD** 1-11=-119/1437, 9-11=-119/1437, 8-9=-114/1440, 7-8=-114/1440

WEBS 5-9=-469/86, 4-9=0/448, 3-9=-471/85

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-1-6, Exterior(2R) 10-1-6 to 14-4-5, Interior(1) 14-4-5 to 20-4-0 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) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 38 lb uplift at
- 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.



August 5,2021

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D6 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc 8.430 s Jun 2 2021 MiTek Industries, Ind. Wed Arg (2.46)
ID:UOuO859_0naEM6EINHbM8DzPWBV-ShbiiGwfF2_vswJ6M iz2/tz/gope

4-1-6

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Wed A

20-4-

Structural wood sheathing directly applied or 3-10-12 oc purlins,

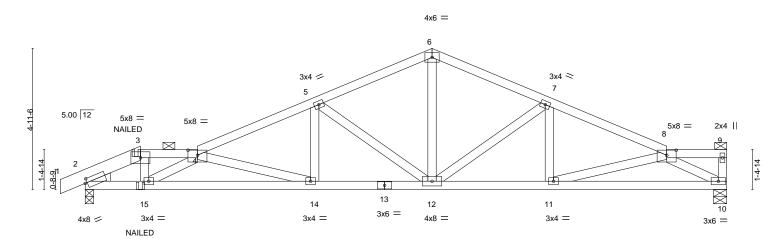
except end verticals, and 2-0-0 oc purlins (4-6-3 max.): 3-4, 8-9.

Rigid ceiling directly applied or 9-2-0 oc bracing.

16-3-6

4-1-6

Scale = 1:40.4



4-1-6

		-11-4 -11-4 3-11-4 -2-0-0	8-0-10 4-1-6	+	12-2-0 4-1-6	16-3-6 4-1-6	-	20-4-12 4-1-6	22-6-0 2-1-4
Plate Offse	ets (X,Y)	[2:0-0-15,0-1-12], [4:0-4-	0,0-2-2], [8:0-4	-0,0-2-2]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/def	l L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.11 14-15 >999	9 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.22 14-15 >999	9 180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.33	Horz(CT)	0.07 10 n/s	a n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix-MS				Weight: 95 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF No.2

1-11-4

2-0-0

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

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 10=0-5-8, 2=0-3-8

Max Horz 2=80(LC 12)

Max Uplift 10=-123(LC 9), 2=-152(LC 8) Max Grav 10=1005(LC 1), 2=1066(LC 1)

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

TOP CHORD $2-3=-1758/209,\ 3-4=-1622/204,\ 4-5=-2013/252,\ 5-6=-1375/181,\ 6-7=-1375/192,$

7-8=-1743/193

BOT CHORD 2-15=-233/1531, 14-15=-415/2729, 12-14=-229/1817, 11-12=-152/1567, 10-11=-213/1520 WFBS

3-15=-48/696, 4-14=-948/194, 5-14=-7/386, 5-12=-742/167, 6-12=-77/754, 7-12=-469/123, 4-15=-1307/212, 8-10=-1707/250

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=15ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 10 and 152 lb uplift
- 6) 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-8=-70, 8-9=-70, 10-16=-20



August 5,2021

Continued on page 2

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 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Summit/55 Woodside 2889809 D6 Roof Special Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Apr 62/16/15/2021 Rags 2 ID:UOuO859_OnaEM6EINHbM8DzPWBV-ShbiiGwfF2_VswJ6M 1/2/17/10/Pet 1/3/2/19/19/2019

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

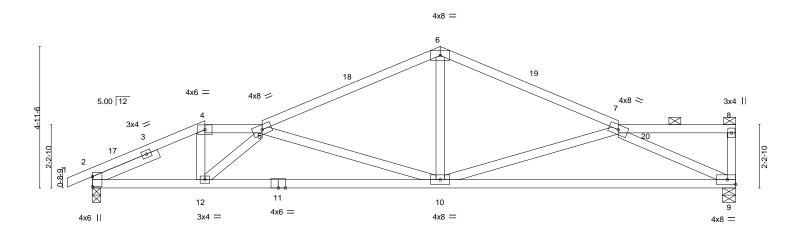
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 15=2(F)



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 2889809 D7 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference (optional) 62/40 62021 Page 3001A2255 Gysxzyrbh 22-6-0 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:UOuO859_0naEM6EINHbM8DzPWBV-wt95wcxH0L6mN0VV14_yWFH 0-10-8 0-10-8 12-2-0 3-11-4 2-0-0 6-2-12 6-2-12

Scale = 1:40.3

RELEASE FOR CONSTRUCTION



	1	3-11-4	5-11-4 _I	12-2-0			18-4-12	1	22-6-0 _I
		3-11-4	2-0-0	6-2-12			6-2-12		4-1-4
Plate Offsets (X	,Y) [2	2:Edge,0-0-0]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	*	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.47 BC 0.85 WB 0.76	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.24 9-10 -0.50 9-10 0.07 9	l/defl L/d >999 240 >540 180 n/a n/a	PLATES MT20	197/144
BCDL 10.0		Code IRC2018/T	PI2014	Matrix-AS				Weight: 8	38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 9=0-5-8, 2=0-3-8

Max Horz 2=113(LC 11)

Max Uplift 9=-41(LC 12), 2=-68(LC 12) Max Grav 9=1005(LC 1), 2=1068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2\text{-}4\text{=-}1779/215,\ 4\text{-}5\text{=-}1554/213,\ 5\text{-}6\text{=-}1471/206,\ 6\text{-}7\text{=-}1471/200}$ TOP CHORD

BOT CHORD 2-12=-258/1604, 10-12=-375/2216, 9-10=-286/1647

WEBS 4-12=-41/679, 5-10=-983/225, 6-10=0/627, 7-10=-448/166, 5-12=-901/173,

7-9=-1741/335

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4, Exterior(2E) 3-11-4 to 5-11-4, Interior(1) 5-11-4 to 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 22-4-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 9 and 68 lb uplift at joint 2.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-6-9 max.): 4-5, 7-8.

Rigid ceiling directly applied.

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D8 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Apr 12/10/19/2021 Page 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-sGHrLlyYYzMUcKfunV0QbgN 59/e 203 N02/10/10 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-0-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Scale = 1:40.0



Structural wood sheathing directly applied, except end verticals, and

4x6 = 6 4x6 = 4x6 = 22 4x8 < 4x8 =5.00 12 8 19 20 5 3x4 = 3 3-0-10 12 13 11 10 9 3x6 = 4x8 = 4x12 = 4x6 II 3x4 ||

16-4-12 5-11-4 2-0-0 Plate Offsets (X,Y)--[2:Edge,0-0-0], [4:0-3-0,0-0-12] SPACING-**PLATES** LOADING (psf) CSI. DEFL. (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) -0.12 10-11 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.51 Vert(CT) -0.29 10-11 >931 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.04 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 93 lb Matrix-AS

LUMBER-**BRACING-**

2x4 ||

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (3-8-0 max.): 4-5, 7-8. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 9=0-5-8, 2=0-3-8

0-10-8 0-10-8

5-11-4

Max Horz 2=128(LC 11)

Left 2x4 SPF No.2 2-6-0

Max Uplift 9=-42(LC 12), 2=-68(LC 12) Max Grav 9=1005(LC 1), 2=1068(LC 1)

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

TOP CHORD $2\text{-}4\text{=-}1729/236,\ 4\text{-}5\text{=-}1882/256,\ 5\text{-}6\text{=-}2047/310,\ 6\text{-}7\text{=-}1812/285,\ 7\text{-}8\text{=-}1663/230,}$

8-9=-948/162

BOT CHORD 2-13=-303/1553, 11-13=-304/1553, 10-11=-218/1200

WEBS 4-11=-28/543, 5-11=-997/181, 6-11=-122/954, 6-10=-66/652, 7-10=-1036/224,

8-10=-223/1743

SLIDER

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4, Exterior(2E) 5-11-4 to 7-11-4, Interior(1) 7-11-4 to 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 22-4-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 9 and 68 lb uplift at ioint 2.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D9 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

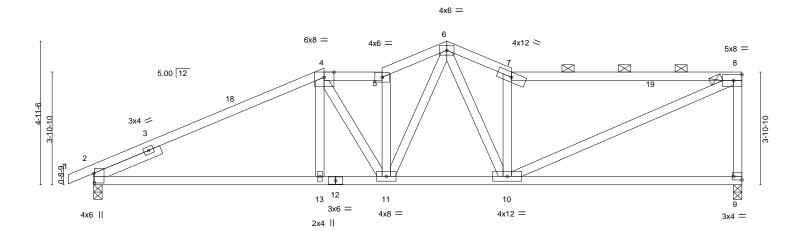
2-0-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (12/10-19-2021 Age
ID:UOu0859_0naEM6EINHbM8DzPWBV-KSrDYezAJGULETE4_CYf7u R1:89yStAVED V2/10-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-20-19-20-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-20-19-20-20-19-20 12-2-0 14-4-12

2-2-12

Scale = 1:39.7



2-2-12

		7-11-4	ļ		2-0-0	4-	5-8		1		7-11-4	ı
Plate Offs	ets (X,Y)	[2:0-4-0,0-0-4], [4:0-4-2,E	dge], [9:Edge	e,0-1-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.11	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 97 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

9-11-4

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

7-8: 2x4 SPF 1650F 1.5E

2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS

0-10-8 0-10-8

SLIDER Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=144(LC 11)

Max Uplift 9=-42(LC 12), 2=-67(LC 12) Max Grav 9=997(LC 1), 2=1061(LC 1)

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

7-11-4

7-11-4

TOP CHORD 2-4=-1574/212, 4-5=-1488/228, 5-6=-1617/266, 6-7=-1646/267, 7-8=-1485/219,

8-9=-915/184

BOT CHORD 2-13=-300/1459, 11-13=-303/1453, 10-11=-225/1179

4-13=0/259, 5-11=-690/110, 6-11=-137/688, 6-10=-87/659, 7-10=-1074/239, **WEBS**

8-10=-229/1528

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-11-4, Exterior(2E) 7-11-4 to 9-11-4, Interior(1) 9-11-4 to 12-2-0, Exterior(2E) 12-2-0 to 14-4-12, Interior(1) 14-4-12 to 22-2-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 9 and 67 lb uplift at ioint 2.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-10-11 max.): 4-5, 7-8.

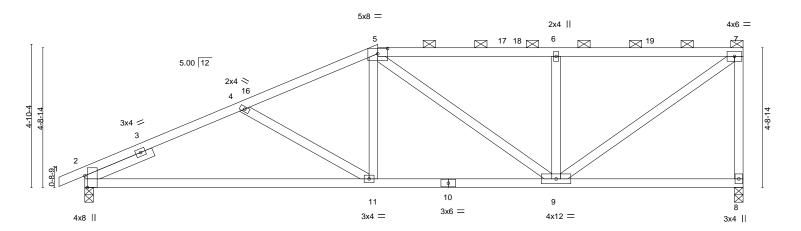
Rigid ceiling directly applied.

August 5,2021



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 2889809 D10 HALF HIP LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Ars 62/16/02/2021 Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-KBJo_qmVJ2L hsRps8 to 101/10/12/29/101/10/12/29/101/10/12/29/101/10/12/29/101/10/12/29/101/10/12/29/101/10/12/29/101/10 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 0-10-8 4-6-3 6-0-10

Scale = 1:39.1



		9-11-4		6-0-10	6-4-2	1
Plate Off	sets (X,Y)	[2:0-4-12,Edge], [5:0-4-0,0-2-2]				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIF	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.15 11-14 >999	240 MT20 197/1	144
TCDL	10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.31 11-14 >862	180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.04 8 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 92 lb F	Γ = 20%

BRACING-

TOP CHORD

BOT CHORD

15-11-14

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=157(LC 11)

Max Uplift 8=-52(LC 9), 2=-66(LC 12) Max Grav 8=997(LC 23), 2=1061(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1694/183, 4-5=-1430/150, 5-6=-1073/155, 6-7=-1071/154, 7-8=-935/139 TOP CHORD

9-11-4

BOT CHORD 2-11=-294/1525, 9-11=-194/1264

WEBS 4-11=-290/116, 5-11=0/376, 6-9=-491/123, 7-9=-135/1275

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-11-4, Exterior(2R) 9-11-4 to 14-2-3, Interior(1) 14-2-3 to 22-2-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 8 and 66 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



22-4-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-1-3 max.): 5-7.

Rigid ceiling directly applied.

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D11 **ROOF SPECIAL** Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-3-14

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Apr. 12/16/03/2021 Page
ID:UOuO859_0naEM6EINHbM8DzPWBV-oNtABAn74MTcJ002PrFvUVVFP-Kdz2FF-/4 2010/10 14-8-12 3-0-0

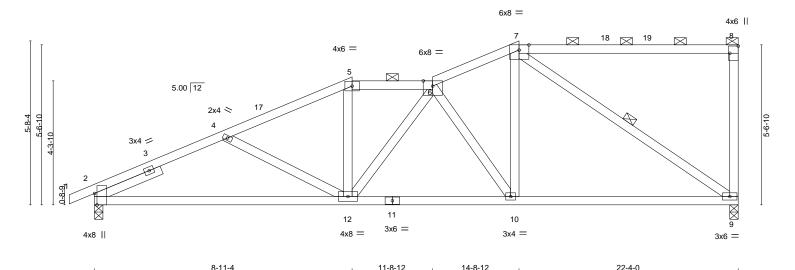
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-11-10 max.): 5-6, 7-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:40.0



11-8-12

Plate Off	sets (X,Y)	[2:0-4-12,Eage], [6:0-3-14,Eage], [7:0	-4-2,Edgej, [8:Edge,0-3-8]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.10 12-15 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.22 12-15 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.05 9 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 98 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=186(LC 11)

Max Uplift 9=-50(LC 9), 2=-65(LC 12)

4-7-6

Max Grav 9=997(LC 1), 2=1061(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1715/252, 4-5=-1509/208, 5-6=-1342/216, 6-7=-1084/201, 8-9=-256/85

BOT CHORD 2-12=-415/1546, 10-12=-298/1346, 9-10=-226/983 **WEBS** 5-12=0/284, 6-10=-601/123, 7-10=-12/628, 7-9=-1146/213

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-11-4, Exterior(2E) 8-11-4 to 11-8-12, Interior(1) 11-8-12 to 14-8-12, Exterior(2R) 14-8-12 to 17-8-12, Interior(1) 17-8-12 to 22-2-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 9 and 65 lb uplift at joint 2.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS 5 2889809 D12 **ROOF SPECIAL** LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Apr 12/48/04/2021 agr 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-GZRYOVnmrfbTxAat 2Ym80 w 600 Mg/k 10/48/22 Dh Builders FirstSource (Valley Center), Valley Center, KS - 67147, 10-10-8 0-10-8

2-9-8

RELEASE FOR CONSTRUCTION

FT = 20%

Weight: 95 lb

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-5-15 max.): 4-5, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:41.9 6x8 = 3x4 || 7 18 19 🖂 \boxtimes 4x6 = 4x12 = 5.00 12 6-4-10 3v4 -3 \mathbb{R} 10 11 9 ä 4x6 =3x4 = 3x4 = 3x6 II 3x4 = 9-8-12 16-8-12 7-0-0 Plate Offsets (X,Y)--[2:Edge,0-0-0], [6:0-4-2,Edge] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.22 9-11 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.73 Vert(CT) -0.46 9-11 >581 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.35 Horz(CT) 0.05 8 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

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

10.0

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=215(LC 11)

Max Uplift 8=-45(LC 12), 2=-64(LC 12) Max Grav 8=997(LC 1), 2=1061(LC 1)

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

Code IRC2018/TPI2014

6-11-4

2-4=-1661/196, 4-5=-1507/211, 5-6=-888/157 TOP CHORD **BOT CHORD** 2-11=-362/1524. 9-11=-382/1705. 8-9=-184/721

WEBS 4-11=0/396, 5-9=-1071/220, 6-9=0/632, 6-8=-1066/191, 5-11=-295/99

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-11-4, Exterior(2E) 6-11-4 to 9-8-12, Interior(1) 9-8-12 to 16-8-12, Exterior(2R) 16-8-12 to 19-8-12, Interior(1) 19-8-12 to 22-2-4 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

Matrix-AS

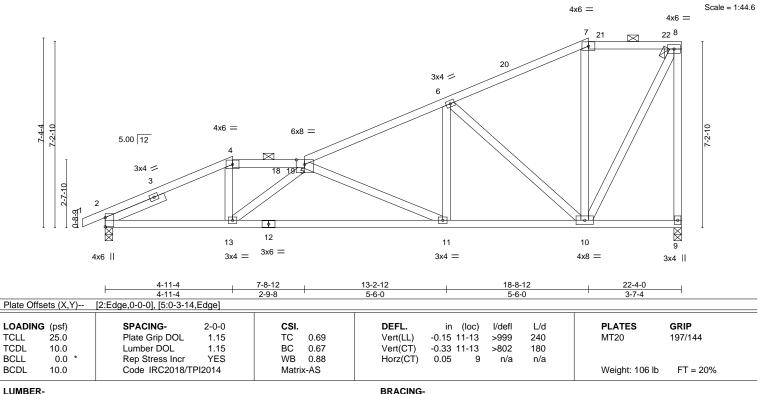
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 8 and 64 lb uplift at
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2889809 D13 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. (1249-) 9-2021 MITek Industries, Inc. Und Arg. (1249-) 9-2021 MID:UOuO859_0naEM6EINHbM8DzPWBV-CyYJpBp0NHrBA Jka5zp 6312Fht/uosDb3ykbw Builders FirstSource (Valley Center), Valley Center, KS - 67147, -0-10-8 0-10-8 13-2-12 18-8-12 4-11-4 2-9-8 5-6-0 5-6-0



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=244(LC 11)

Max Uplift 9=-46(LC 12), 2=-63(LC 12) Max Grav 9=997(LC 1), 2=1061(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1775/193, 4-5=-1567/197, 5-6=-1357/186, 6-7=-562/154, 7-8=-451/164,

8-9=-960/192

2-13=-393/1598, 11-13=-417/2080, 10-11=-265/1187

BOT CHORD WEBS 4-13=0/526, 5-11=-975/187, 6-11=0/552, 6-10=-990/154, 8-10=-197/960, 5-13=-663/126

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-11-4, Exterior(2E) 4-11-4 to 7-8-12, Interior(1) 7-8-12 to 18-8-12, Exterior(2R) 18-8-12 to 21-8-12, Interior(1) 21-8-12 to 22-2-4 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
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 9 and 63 lb uplift at joint 2.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-7-1 max.): 4-5, 7-8.

Rigid ceiling directly applied.

August 5,2021

RELEASE FOR CONSTRUCTION



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

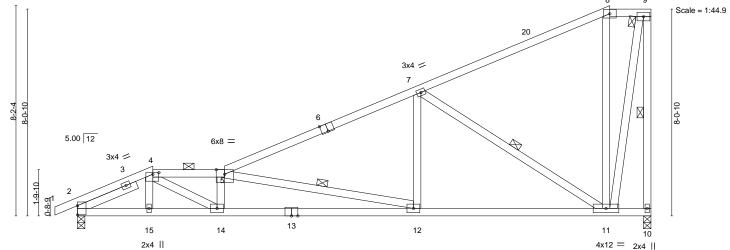
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D14 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

6 2 40 9 7 2021 Rags Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc Wed A ID:UOuO859_0naEM6EINHbM8DzPWBV-h86h1Xqe8az2odJmehKreM(Q ?wmAMHI7MyrDhg 20-8-12 2-11-4 2-9-8 7-6-0



1-7-4
GRIP
197/144
2 lb FT = 20%
12

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=219(LC 12) Max Uplift 10=-78(LC 12), 2=-31(LC 12)

Max Grav 10=997(LC 1), 2=1061(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2\text{-}4\text{--}1695/125,\ 4\text{-}5\text{--}2711/151,\ 5\text{-}7\text{--}1424/57,\ 7\text{-}8\text{--}341/2,\ 9\text{-}10\text{--}995/152}$ TOP CHORD **BOT CHORD** 2-15=-341/1537, 14-15=-341/1542, 12-14=-374/2765, 11-12=-202/1229 **WEBS** 4-14=-41/1359, 5-14=-579/101, 5-12=-1569/178, 7-12=0/546, 7-11=-1211/199,

8-11=-283/157, 9-11=-184/1056

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-4, Exterior(2E) 2-11-4 to 5-8-12, Interior(1) 5-8-12 to 20-8-12, Exterior(2E) 20-8-12 to 22-2-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 10 and 31 lb uplift at joint 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) 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.



Structural wood sheathing directly applied, except end verticals, and

9-10, 5-12, 7-11

2-0-0 oc purlins (3-4-14 max.): 4-5, 8-9.

Rigid ceiling directly applied.

1 Row at midpt

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 D15 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS® LEE'S SUMMIT. MISSOURI

Scale = 1:51.0

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (12/16/09-2021) Rage 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-9Lg3EtrGuu5vPr_uzCOr4 27 (50)6 VK W000000 Dhi

18

2-0-0 oc purlins (2-8-12 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

4x6 =

Structural wood sheathing directly applied, except end verticals, and

7-8, 4-11, 6-8

9

3x4 =

3-8-12 1-4-12 9-10-0 15-11-4 1-4-12 0-11-4

17 3x6 = 6 5x8 = X 5.00 12 6x8 = 0-11-10

0-11-4 2-4-0 3-8-12 0-11-4 1-4-12 1-4-12 9-10-0 15-11-4 6-1-4 6-4-12 6-1-4

10

BRACING-

TOP CHORD

BOT CHORD

WEBS

3x6 =

Plate Offsets (X, Y)	Plate Offsets (A, Y) [5:0-3-0,Edge], [7:0-0-13,0-1-8], [11:0-3-8,0-2-0], [12:0-6-0,0-3-4]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 25.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.28 11-12 >948 240	MT20 197/144							
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.50 11-12 >530 180								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.08 8 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 110 lb FT = 20%							

4x8 =

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x8 SP 2400F 2.0E, 4-5: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-10: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

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

Max Horz 2=299(LC 11)

Max Uplift 8=-49(LC 12), 2=-60(LC 12) Max Grav 8=1122(LC 17), 2=1114(LC 17)

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

13

12 4x6 =

8x12 =

TOP CHORD 2-3=-1777/136, 3-4=-2957/201, 4-5=-2055/149, 5-6=-1043/131

BOT CHORD 2-13=-339/1610, 12-13=-213/4368, 11-12=-230/4363, 9-11=-222/1964, 8-9=-158/931

4-11=-2438/181, 5-11=0/540, 5-9=-1167/107, 6-9=0/784, 6-8=-1226/115, 4-13=-1474/59, **WEBS**

3-13=-98/1591

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 3-8-12, Interior(1) 3-8-12 to 22-2-4 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 8 and 60 lb uplift at
- 6) 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.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



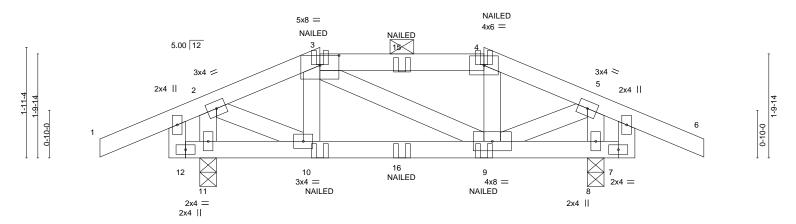
Job Truss Truss Type Qty Summit/55 Woodside 2889809 E1 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-7-12 1-11-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEF'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Am (12/46/2020/17/300) ID:UOuO859_0naEM6EINHbM8DzPWBV-oePbl__o4acCrdp_svw3ugls3ac3/6_mh9uvU4_vr0JT_5-6-4

Scale = 1:20.2



		0-6-8 0-1-12	1-11-8	3		2-10-8		1	1-1	1-8	0-1-12 0-6-8	
Plate Off	sets (X,Y)	[3:0-4-0,0-2-2]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.00	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	x-MP						Weight: 35	lb FT = 20%

TOP CHORD

BOT CHORD

5-6-4

7-5-12

7-7-8 8-2-0

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

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

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

LUMBER-BRACING-

2-7-12

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

> (size) 11=0-3-8, 8=0-3-8 Max Horz 11=-25(LC 6)

Max Uplift 11=-84(LC 8), 8=-84(LC 8) Max Grav 11=458(LC 1), 8=458(LC 1)

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

0-6-8 0r8-4

2-3=-269/25, 4-5=-269/25 TOP CHORD

WEBS 2-11=-438/95, 5-8=-438/95, 2-10=0/252, 5-9=0/253

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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 11 and 84 lb uplift at joint 8.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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 + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 7-12=-20

Concentrated Loads (lb) Vert: 10=-2(B) 9=-2(B) 15=-10(B) 16=-9(B)



August 5,2021



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

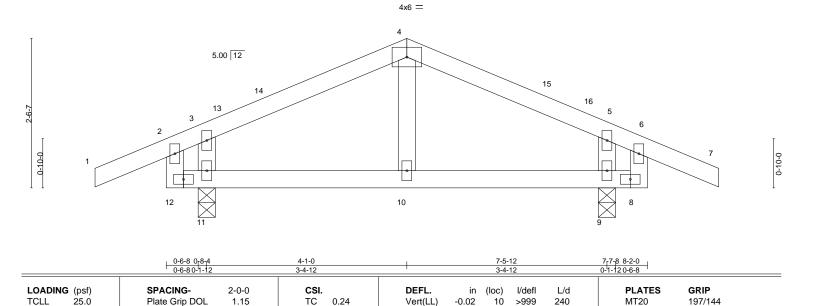


Job Truss Truss Type Qty Summit/55 Woodside AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 0 2889809 E2 Common LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Wed Ars 62/16/21 Fact 1

ID:UOuO859_0naEM6EINHbM8DzPWBV-Gry_zK?Qruk3TnCTTda7CU3 63 47 82 60 9 4-8 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 4-1-0 3-4-12

Scale = 1:19.6

RELEASE FOR CONSTRUCTION



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.03

0.00

10 >999

9

n/a

Rigid ceiling directly applied.

180

n/a

Weight: 27 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SPF No.2

10.0

0.0

10.0

REACTIONS. 9=0-3-8, 11=0-3-8 (size) Max Horz 11=55(LC 11)

Max Uplift 9=-55(LC 12), 11=-67(LC 12) Max Grav 9=449(LC 1), 11=449(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

5-9=-262/207, 3-11=-262/207 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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 4-1-0, Exterior(2R) 4-1-0 to 7-1-0, Interior(1) 7-1-0 to 9-4-8 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

ВС

WB

Matrix-AS

0.26

0.04

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 9 and 67 lb uplift at ioint 11.
- 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.



August 5,2021

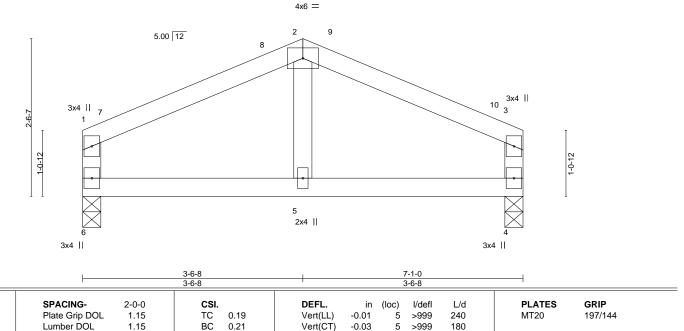


Job Truss Truss Type Qty Summit/55 Woodside 2889809 E3 Common Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Amy (12/16/21/2021/ Rage)
ID:UOuO859_0naEM6EINHbM8DzPWBV-k1WMAf?2bBsw5xzfvK5MIWK5ptByday/ BP492/rbh Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-6-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Scale = 1:18.5



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

n/a

Rigid ceiling directly applied.

n/a

Weight: 21 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

3-6-8

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

REACTIONS.

6=0-3-8, 4=0-3-8 (size) Max Horz 6=-50(LC 10) Max Uplift 6=-13(LC 12), 4=-13(LC 12) Max Grav 6=306(LC 1), 4=306(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

1-2=-295/151, 2-3=-295/151 TOP CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-6-8, Exterior(2R) 3-6-8 to 6-6-8, Interior(1) 6-6-8 to 6-11-4 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

WB

Matrix-AS

0.02

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 6 and 13 lb uplift at joint 4.
- 6) 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.
- 7) 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.



August 5,2021

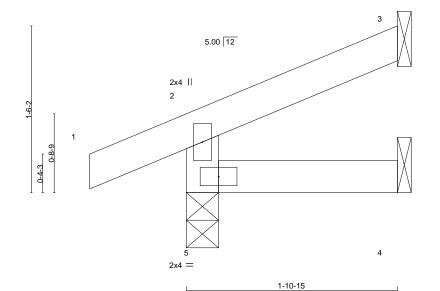


Job Truss Truss Type Qty Summit/55 Woodside 2889809 J1 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

1-10-15 0-10-8 1-10-15

Scale = 1:10.4



							1-10-15					
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=49(LC 12)

Max Uplift 3=-14(LC 12), 5=-30(LC 12) Max Grav 3=44(LC 1), 4=31(LC 3), 5=171(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3 and 30 lb uplift at joint 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.



Structural wood sheathing directly applied or 1-10-15 oc purlins,

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



Job Truss Truss Type Qty Summit/55 Woodside 2889809 J₁A Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

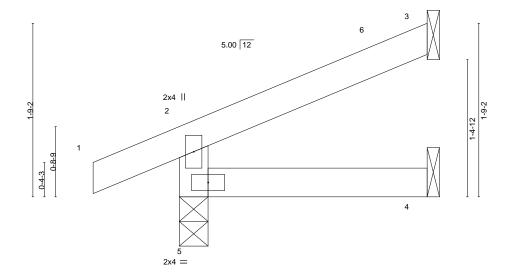
8.430 s Jun 2 2021 MiTek Industries, Inc Wed Ang (12/18-24/2021 Rage 1 ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-hQe6bL117o6eKl 61817qdxd Wy 22MH4 hDvy DJP 2-6-3

Structural wood sheathing directly applied or 2-6-3 oc purlins,

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

except end verticals.

Scale = 1:11.7



2-6-3

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.07 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 7 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

BOT CHORD 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=55(LC 12)

Max Uplift 3=-20(LC 12), 5=-28(LC 12) Max Grav 3=65(LC 1), 4=42(LC 3), 5=191(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-7 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3 and 28 lb uplift at ioint 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.



August 5,2021



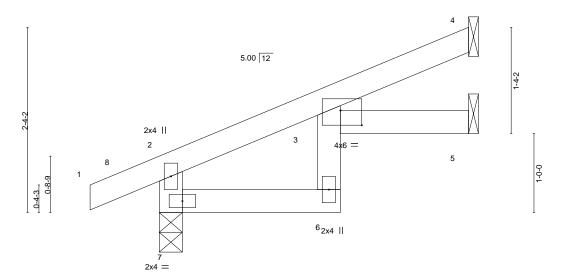
Job Truss Truss Type Qty Summit/55 Woodside 2889809 J2 Jack-Open Job Reference (optional) B.430 s Jun 2 2021 MiTek Industries, Inc. Wed Avg. (12/19:25-2021 Rags. 1 ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-9cCUph2xu6FVyOhE Te3N9sart (5/15/20) 1975 Myr oh Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

2-3-8 2-3-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Scale = 1:14.6



3-10-15

1-7-7

3-10-15

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[3:0-3-4,0-2-4]											
LOADIN	\	SPACING-	2-0-0	CSI.	2.00	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.03	6	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	6	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	5	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MR						Weight: 12 lb	FT = 20%	

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=71(LC 12)

Max Uplift 4=-20(LC 12), 7=-25(LC 12) Max Grav 4=94(LC 1), 5=64(LC 1), 7=249(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-0-9, Interior(1) 2-0-9 to 3-10-3 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 25 lb uplift at joint 7.
- 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins,

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

August 5,2021



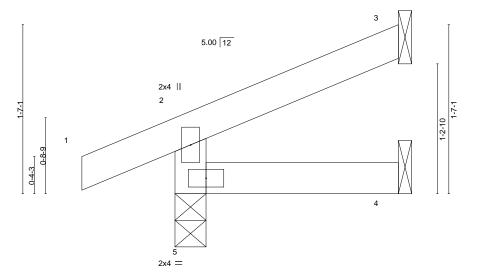
Job Truss Truss Type Qty Summit/55 Woodside 2889809 J3 JACK-OPEN 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

B.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg 62/19-25-2021 Ragg 1D:UOuO859_0naEM6EINHbM8DzPWBV-9cCUph2xu6FVyOLEITe3N991FHMFZQ19-Fmy/r hb

2-1-3 2-1-3 0-10-8

Scale = 1:10.8



2-1-3

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR						Weight: 6 lb	FT = 20%

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=51(LC 12)

Max Uplift 3=-16(LC 12), 5=-29(LC 12) Max Grav 3=50(LC 1), 4=34(LC 3), 5=176(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 29 lb uplift at joint 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.



Structural wood sheathing directly applied or 2-1-3 oc purlins,

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

August 5,2021

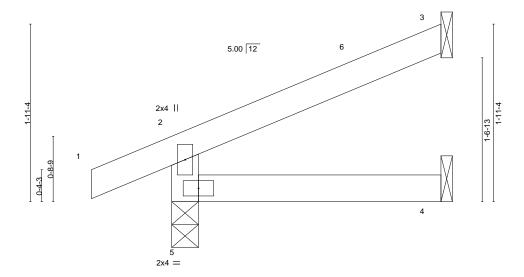


Job Truss Truss Type Qty Summit/55 Woodside 2889809 J4 JACK-OPEN Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/10-36-2021 Face 12/10-36-2021 Face 1 2-11-4 2-11-4 -0-10-8 0-10-8

Scale = 1:12.6



2-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 >999 240 197/144 **TCLL** TC 0.09 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.01 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=60(LC 12) Max Uplift 3=-24(LC 12), 5=-27(LC 12) Max Grav 3=80(LC 1), 4=51(LC 3), 5=208(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 3 and 27 lb uplift at ioint 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.



Structural wood sheathing directly applied or 2-11-4 oc purlins,

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

August 5,2021

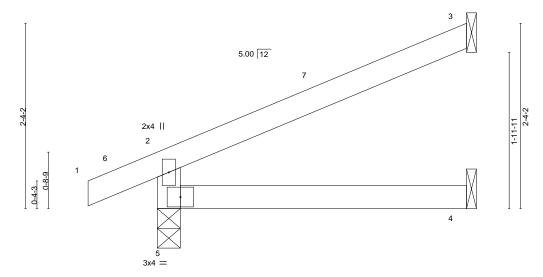


Job Truss Truss Type Qty Summit/55 Woodside 2889809 J5 JACK-OPEN 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Aps. 61246-37-2021 Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-5_KFDN3BQjVCBircouhXSaEw153/F99int1 Vqoyr (bh/) 3-10-15 0-10-8 3-10-15

Scale = 1:14.6



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) -0.01 >999 240 197/144 **TCLL** 1.15 TC 0.19 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 11 lb FT = 20%

3-10-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=71(LC 12) Max Uplift 3=-33(LC 12), 5=-26(LC 12)

Max Grav 3=114(LC 1), 4=69(LC 3), 5=248(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 26 lb uplift at ioint 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins,

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

August 5,2021

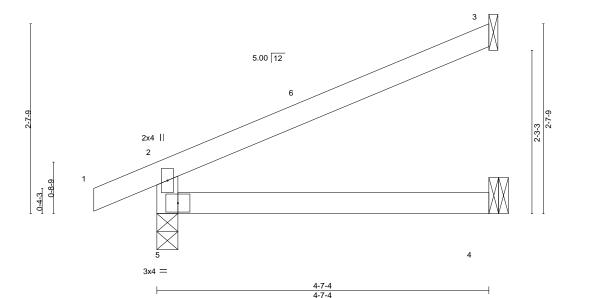


Job Truss Truss Type Qty Summit/55 Woodside 2889809 J6 JACK-OPEN Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Ars (12/46-28-2021 Rags ID:UOuO859_OnaEM6EINHbM8DzPWBV-ZBtdRj4pB1d3psCpNbCmcn ettylvv_Ls?) wywybb Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Scale: 3/4"=1



4-7-4

LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.26	DEFL. Vert(LL)	in -0.02	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	4-5	>999	180		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/Ti	YES PI2014	WB Matri	0.00 x-AS	Horz(CT)	0.01	3	n/a	n/a	Weight: 12 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SPF No.2

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

Max Horz 5=79(LC 12)

Max Uplift 3=-39(LC 12), 5=-25(LC 12)

Max Grav 3=138(LC 1), 4=81(LC 3), 5=277(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-6-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 25 lb uplift at ioint 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

August 5,2021



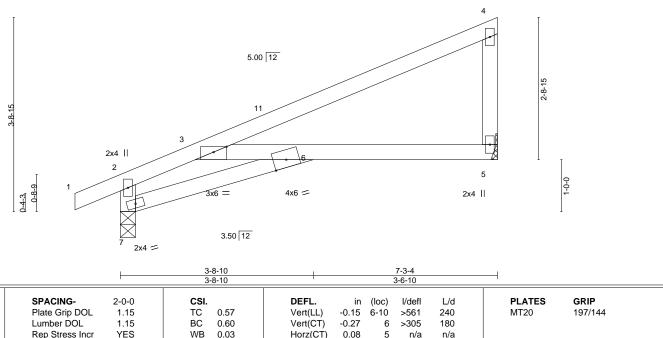
Job Truss Truss Type Qty Summit/55 Woodside 2889809 J7 JACK-PARTIAL 3 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arts ID:UOuO859_0naEM6EINHbM8DzPWBV-ZBtdRj4pB1d3ps0pNbCm?n

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Scale = 1:22.2

12/48-28-2021 Rago 14/42/cts??/v/MyrDh Wed A

0-10-8 2-0-1 1-8-9 1-7-9 2x4 ||



BRACING-TOP CHORD

BOT CHORD

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

REACTIONS.

5=Mechanical, 7=0-3-8 (size) Max Horz 7=110(LC 12) Max Uplift 5=-34(LC 12), 7=-22(LC 12) Max Grav 5=309(LC 1), 7=391(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-7=-355/186

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 7-1-8 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

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 22 lb uplift at ioint 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) 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.



Weight: 24 lb

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

FT = 20%

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 J7A JACK-PARTIAL 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/16/392071-Rag ID:UOuO859_0naEM6EINHbM8DzPWBV-1NR?e35RyLlwR0??xJj?X KBroyNiz8qDjysysyrDr3-8-10 5-4-3 3-8-10 1-7-9 1-10-8 2-0-1 1-8-9 1-11-1

Scale = 1:22.2 2x4 || 5.00 12 2x4 || 5 0-8-9 4x6 = 2x4 || 3.50 12 2x4 =

3-6-10

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

Plate Offsets (X,Y)	[3:0-4-3,0-0-12]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) 0.12 6 >677 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.24 6 >354 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.07 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 5=Mechanical, 7=0-3-8

Max Horz 7=128(LC 12)

Max Uplift 5=-28(LC 12), 7=-60(LC 12) Max Grav 5=294(LC 1), 7=476(LC 1)

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

TOP CHORD 2-7=-440/252

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 7-1-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 60 lb uplift at
- 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.



August 5,2021



Job Truss Truss Type Qty Ply Summit/55 Woodside 2889809 J8 Jack-Partial Girder Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Am 12/46/30/2021 Rags 2 ID:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB J0EE40 K WGST/95B J0BV DJJ Valley Center, KS - 67147, 6₇5₇0 7-3-4 0-1-12 0-10-4 6-3-4 3-3-6 2-11-14

Scale = 1:22.7

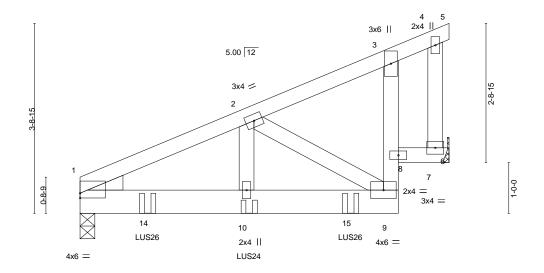


Plate Offsets (X,Y)--[1:0-0-0,0-1-2] SPACING-(loc) LOADING (psf) 2-0-0 CSI DEFL. in I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.70 Vert(LL) -0.06 9 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.36 Vert(CT) -0.11 9 >795 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.15 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 71 lb

BRACING-

TOP CHORD

BOT CHORD

2-11-14

LUMBER-

WEBS

TOP CHORD 2x4 SP 2400F 2.0E 2x4 SPF No.2 *Except* **BOT CHORD**

Builders FirstSource (Valley Center),

1-9: 2x6 SPF No.2 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 7=Mechanical

Max Horz 1=83(LC 8)

Max Uplift 1=-43(LC 8), 7=-69(LC 8) Max Grav 1=1334(LC 1), 7=1259(LC 1)

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

TOP CHORD 1-2=-1870/58, 3-4=-36/474

BOT CHORD 1-10=-113/1715, 9-10=-113/1715, 8-9=-64/1553, 3-8=-59/1562

2-10=-18/982, 2-9=-2032/133, 4-7=-1244/78 **WEBS**

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1 and 69 lb uplift at joint 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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-4-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 3-4-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 5-4-0 from the left end to connect Continued (co) tradio at face of bottom chord, skewed 0.0 deg. to the left, sloping 0.0 deg. down.



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

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

August 5,2021

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

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

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



Job Truss Truss Type Qty Ply Summit/55 Woodside 2889809 J8 Jack-Partial Girder | 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc | Wed Am | 12/16/30/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOuO859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBV-VZ?NsO63jetn2AaB | JOEE40 tk/ Wys C 29/50/2021 Rags | 10:UOu0859_0naEM6EINHbM8DzPWBWP-VZ?NsO63jetn2A Builders FirstSource (Valley Center), Valley Center, KS - 67147,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS1

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-20, 9-11=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 10=-633(F) 14=-645(F) 15=-673(F)



Job Truss Truss Type Qty Ply Summit/55 Woodside 2889809 J9 Jack-Closed Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

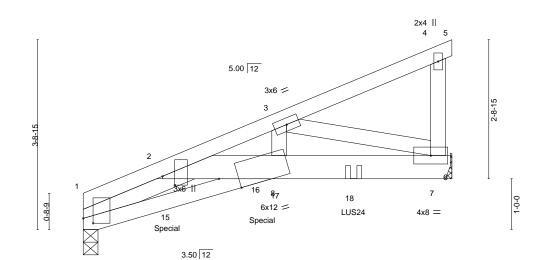
2-4-10

1-4-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/16/31/2021) Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-_mZm3k6iUy?egJ9O2jl[c]Pojj/Spzvz]ljcszzy_Dhy

Scale = 1:22.7



3-6-10

1-4-0 2-4-10

Plate Offsets (X,Y)	[1:0-1-2,0-2-5], [2:0-2-1,0-2-14], [8:0-4-8,Edge]

4x6 ||

LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	.15	TC	0.23	Vert(LL)	-0.03	8-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.62	Vert(CT)	-0.06	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-MP						Weight: 65 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-6: 2x6 SPF No.2 2x4 SPF No.2

WEBS SLIDER Left 2x4 SPF No.2 2-4-0

REACTIONS. (size) 1=0-3-8, 7=Mechanical

Max Horz 1=94(LC 5)

Max Uplift 1=-64(LC 8), 7=-75(LC 8) Max Grav 1=1241(LC 1), 7=1202(LC 1)

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

TOP CHORD 2-10=-2499/159, 2-3=-2682/170 **BOT CHORD** 1-8=-184/2505, 7-8=-163/2461 **WEBS** 3-8=-70/1614, 3-7=-2569/187

NOTES-

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

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

Bottom chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 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 64 lb uplift at joint 1 and 75 lb uplift at joint 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 5-4-0 from the left end to connect truss(es) to back
- 11) Fill all nail holes where hanger is in contact with lumber.



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

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

except end verticals.

August 5,2021

Continued on page 2

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

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

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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply Summit/55 Woodside DEVELOPMENT SERVICES2 2889809 J9 Jack-Closed Girder LEE'S SUMMIT. MISSOURI Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. (12/16/31/2021) Rags 2 ID:UOuO859_0naEM6EINHbM8DzPWBV-_mZm3k6iUy?egJ9O2jitc.Pg/jicpg/v2ihcszzz/t01/2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 605 lb down and 45 lb up at 1-6-12, and 599 b down and 46 lb up at 3-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-20, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 15=-605(B) 16=-599(B) 18=-599(B)



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG1 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-9-10

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg 12/16/32/2021 Rag 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-Sy78H47KFG7VITj cRGi9dypenywPzswi06/wzyr0hH

4x6 =

4-9-10



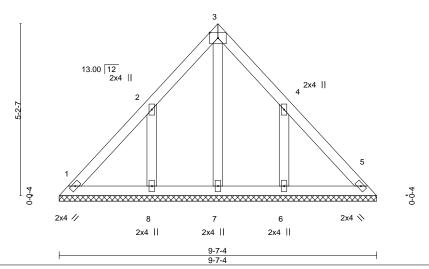


Plate Off	sets (X,Y)	[3:Edge,0-1-15]		1		ı						
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	` -	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	k-S						Weight: 37 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 9-7-4.

Max Horz 1=-122(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=281(LC 17), 6=280(LC 18)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-9-10, Exterior(2R) 4-9-10 to 7-9-10, Interior(1) 7-9-10 to 9-3-4 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
- 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.



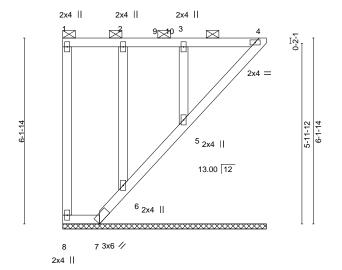


Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG₂ **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Ind. Wed Arg 12/16/39/2021 Rag 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-G6UPX8C5q6tf0OB vyhN6P Corviy1 (2xkli) 4R2y 0hB 3-15 6-8-14

6-8-14 0-1-15 6-6-15 6-6-15

Scale = 1:38.1



		1-2-10	6-8-14 5-6-4		
LOADING (psf) TCLL 25.0 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 0.30 BC 0.05 WB 0.06 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	- n/a 999 - n/a 999	PLATES GRIP MT20 197/144 Weight: 33 lb FT = 20%

BOT CHORD

2-0-0 oc purlins: 1-4, except end verticals.

6-0-0 oc bracing: 4-5.

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

LUMBER-BRACING-TOP CHORD

Valley Center, KS - 67147,

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

Builders FirstSource (Valley Center),

2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 6-8-14. Max Horz 8=-148(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7, 6, 5 Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6, 5

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 3-6-13, Corner(3) 3-6-13 to 6-6-13 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) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7, 6, 5.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 6, 5.
- 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG3 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5

LEE'S SUMMIT. MISSOURI

Scale = 1:34.1

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Amy 6/2/16/38/2021 Rage 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-G6UPX8C5q6tf0OBk nh6Pucol my 6/4/2021 Rage 10-13

7-10-13

13 12 13.00 12 9 8 4x6 = 10

> 7-10-13 2-2-10

Plate Off	fsets (X,Y)	[8:0-4-8,0-1-12]										
LOADIN	· /	SPACING-	2-0-0	CSI.	0.00	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-P						Weight: 39 lb	FT = 20%

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 1-5, except end verticals.

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

LUMBER-**BRACING-**

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

REACTIONS. All bearings 7-10-13.

TOP CHORD 2x4 SPF No.2

Max Horz 10=-148(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 7, 6 except 8=-102(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 8, 9, 7, 6

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-6-13, Corner(3) 4-6-13 to 7-6-13 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) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5, 9, 7, 6 except (jt=lb) 8=102.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021

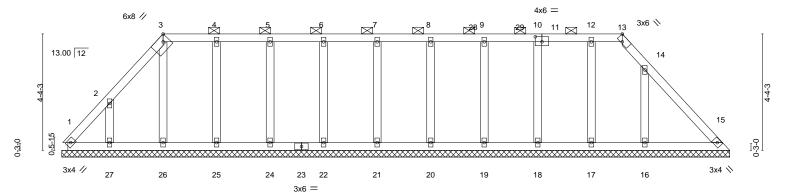


Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG4 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEF'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg 12/18/40 2021 Rag 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-DVc9ypDLMj8MFiLe 46QaU. Hij KK) Word 17/18/2019 11-5 1-14

Scale = 1:43.0



17-1-14

0-2-12			24-8-12				
Plate Offsets (X,Y) [3:0-2-9,Edge], [11:0-3-0,0-2-4], [13:0-2	-9,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a	- n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a	- n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	15 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 104 lb	FT = 20%

24-11-8

LUMBER-BRACING-

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

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-13. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-11-8.

(lb) -Max Horz 1=102(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 20, 21, 22, 24, 25, 27, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 19, 20, 21, 22, 24, 25, 26, 27, 18, 17 except

16=287(LC 18)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-8 to 3-4-8, Interior(1) 3-4-8 to 3-9-7, Exterior(2R) 3-9-7 to 7-9-7, Interior(1) 7-9-7 to 20-11-5, Exterior(2E) 20-11-5 to 24-7-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 20, 21, 22, 24, 25, 27, 18, 17, 16.
- 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG5 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVES57 LEE'S SUMMIT. MISSOURI

612/46-41-2021 - Rags 1 100/ks/2010 10/6k/2010 18 Wed A

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg ID:UOuO859_0naEM6EINHbM8DzPWBV-hhAY99Ez71GDtsv. eqxp0XpN 8-7-2 8-7-2 8-7-2

> 4x6 = Scale = 1:56.4

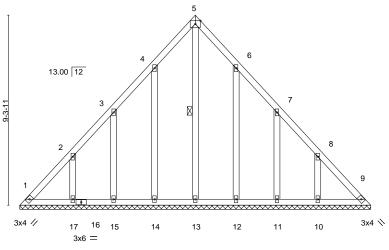


Plate Offsets (X,Y)	[5:Edge,0-1-15]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) r	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) r	n/a -	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.	00 9	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 88 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** WEBS

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 5-13

REACTIONS. All bearings 17-2-4.

(lb) -Max Horz 1=-225(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 17, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 12, 11 except 17=253(LC 17), 10=252(LC 18)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 8-7-2, Exterior(2R) 8-7-2 to 11-7-2, Interior(1) 11-7-2 to 16-10-4 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
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 17, 12, 11, 10.
- 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG6 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS LEF'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg. (271942-2021 Rags.)
ID:UOuO859_0naEM6EINHbM8DzPWBV-9tkwNVFbuKO4U0U\BXS2Z (M-75HG-4tyD)FestyDt 12-2-4 6-1-2

4x6 =

Scale = 1:40.2

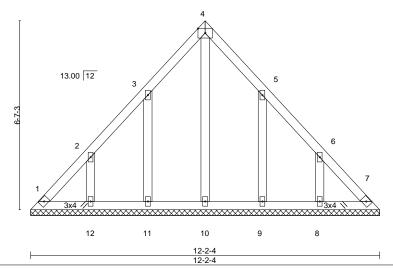


Plate Offsets (X,Y)--[4:Edge,0-1-15] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.05 Vert(LL) 999 MT20 197/144 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 53 lb Matrix-S

LUMBER-BRACING-

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

REACTIONS. All bearings 12-2-4.

(lb) -Max Horz 1=-150(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-122(LC 12), 12=-124(LC 12), 9=-122(LC 13),

8=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 6-1-2, Exterior(2R) 6-1-2 to 9-1-2, Interior(1) 9-1-2 to 11-10-4 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
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=122, 12=124, 9=122, 8=125,
- 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.



August 5,2021

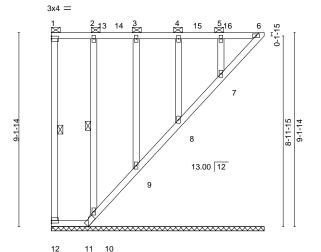


Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG7 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEF'S SUMMIT, MISSOURI

ID:UOuO859_0naEM6EINHbM8DzPWBV-d3HlarGDfeWx693 IFzH6y cd Py/NX382 / Qy/D

10-0-8 10-0-8

Scale = 1:54.4



1-8-14	10-0-8	
1-8-1/	9-2-10	

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S						Weight: 60 lb	FT = 20%

LUMBER-BRACING-

Valley Center, KS - 67147,

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

Builders FirstSource (Valley Center),

TOP CHORD **BOT CHORD WEBS**

2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 1-12, 2-10

REACTIONS. All bearings 10-0-8.

Max Horz 12=-223(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 11, 10, 9, 8, 7 except 6=-111(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 12, 6, 11, 10, 9, 8, 7

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 6-10-5, Corner(3) 6-10-5 to 9-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3x4 =

- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11, 10, 9, 8, 7 except (jt=lb) 6=111.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 10, 9, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG8 **GABLE** Job Reference (optional)

9

8

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT. MISSOURI

Scale = 1:53.9

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg (12/19/4/2021 Flags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-5GrgoBGrQyeckJetJyUW Ssknikki Dylkky DJ 5

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

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

except end verticals.

1 Row at midpt

8-10-1

3x6 || 13.00 | 12 0-3-8

7

6

BRACING-

TOP CHORD

BOT CHORD

WEBS

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 51 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

Builders FirstSource (Valley Center),

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-1-9. Max Horz 9=-251(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5, 9, 8, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 5, 9, 8, 7 except 6=273(LC 18)

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

TOP CHORD 3-4=-276/256, 4-5=-422/403

BOT CHORD 8-9=-294/321, 7-8=-294/321, 6-7=-294/321, 5-6=-294/321

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-6-1 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 9, 8, 7, 6.
- 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.



August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG9 **GABLE** Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 LEE'S SUMMIT, MISSOURI

ID:UOuO859_0naEM6EINHbM8DzPWBV-ZSP2?XHUBFmfLTD4tg?IB\\ (TD7-TJ-NV) ITSV Dt

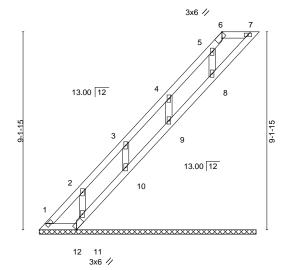
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

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

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

10-0-6 8-5-7 8-5-7 1-6-14

Scale = 1:53.3



1-8-12	10-0-6
1-8-12	8-3-10

Plate Off	sets (X,Y)	[6:0-2-9,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 38 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

OTHERS 2x4 SPF No.2

(lb) -

All bearings 10-0-6. Max Horz 1=246(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 11, 10, 9, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 12, 11, 10, 9, 8

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

TOP CHORD 1-2=-338/312

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 8-5-7, Exterior(2E) 8-5-7 to 9-10-3 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 11, 10, 9,
- 8) Non Standard bearing condition. Review required.
- 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.



August 5,2021



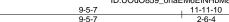
Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG10 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

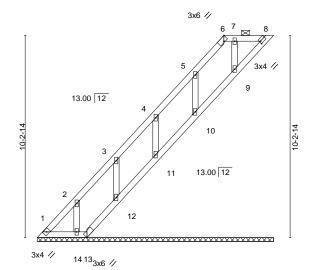
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc BL:UOuO859_0naEM6EINHbM8DzPWBV-OLFuhm9antNDXrtyjsJAEt10VJAQUUN Dzyjot

11-11-10

Scale = 1:58.3





11-11-10

Plate Offsets (X,Y)	[6:0-2-9,Edge], [8:0-0-10,0-1-8]	2-0-4	3-3-r	
LOADING (psf) TCLL 25.0 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 0.09 BC 0.03 WB 0.02	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 8 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 48 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(lb) -

OTHERS 2x4 SPF No.2

> All bearings 11-11-10. Max Horz 1=276(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 13, 14, 12, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 14, 12, 11, 10, 9

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

TOP CHORD 1-2=-362/335, 2-3=-259/237

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 9-5-7, Exterior(2E) 9-5-7 to 11-7-10 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 13, 14, 12,
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 12, 11, 10, 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.



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

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

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

6-0-0 oc bracing: 8-9.

August 5,2021



Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG11 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc

Valley Center, KS - 67147,

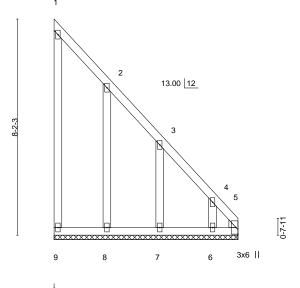
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESS3

LEE'S SUMMIT. MISSOURI

B.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (240-35-2021) Rag ID:UOuO859_0naEM6EINHbM8DzPWBV-sXpGv69CYBV49>S9HZqfint (DFJhp/IEDjjhngv/D)

6-11-8

Scale = 1:43.6



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) n	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n	n/a -	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.0	00 5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 40 lb FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

Builders FirstSource (Valley Center),

OTHERS WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 6-11-8.

Max Horz 9=-267(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 8, 7, 6 except 5=-179(LC 11) Max Grav All reactions 250 lb or less at joint(s) 9, 8, 7, 6 except 5=278(LC 8)

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

TOP CHORD 2-3=-305/314, 3-4=-424/425, 4-5=-600/594 **BOT CHORD** 8-9=-356/367, 7-8=-356/367, 6-7=-356/367, 5-6=-356/367

4-6=-257/217 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 6-11-8 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
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8, 7, 6 except
- 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.



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

Rigid ceiling directly applied or 9-11-5 oc bracing.

August 5,2021



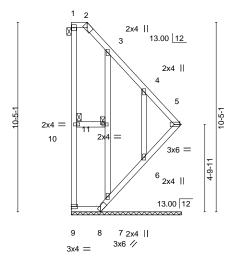
Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG12 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Apr. 612/49-36-2021 Rags 1 ID:UOuO859_0naEM6EINHbM8DzPWBV-KjMf6SAqIUdxm51LrHLe.Trl 510/859-220 Kf5vrDhD

0-10-7 6-0-10 5-2-3

Scale = 1:63.3 3x4 || 4x6 📏



1-7-6	6-0-10
1-7-6	4-5-4

Plate Offs	sets (X,Y)	[2:0-2-9,Edge], [5:Edge,0)-1-8]									
LOADING	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 46 lb	FT = 20%

JOINTS

1 Brace at Jt(s): 1, 11

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SPF No.2 **WEBS** 1 Row at midpt

REACTIONS. All bearings 6-0-10.

Max Horz 9=-308(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9 except 5=-208(LC 11), 8=-165(LC 8), 7=-119(LC 8), 6=-103(LC

12)

Max Grav All reactions 250 lb or less at joint(s) 9, 8, 7, 6 except 5=403(LC 10)

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

TOP CHORD 3-4=-330/348, 4-5=-433/444

BOT CHORD 8-9=-358/355, 7-8=-518/527, 6-7=-488/485, 5-6=-494/485

WEBS 7-11=-354/283, 3-11=-354/283

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 0-10-7, Exterior(2R) 0-10-7 to 4-0-0, Interior(1) 4-0-0 to 5-10-4 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) Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 5=208, 8=165, 7=119, 6=103.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
- 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.



August 5,2021



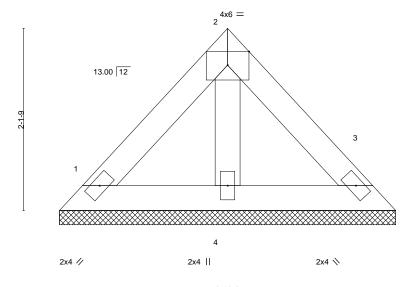
Job Truss Truss Type Qty Summit/55 Woodside 2889809 LG13 Lay-In Gable Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Are (12/49-37/2021-Rage ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-oww1KoBS3oloOEcXP_stshif (50/bbgr853)/tBdy (D)

1-11-10 1-11-10

Scale = 1:13.5



3-11-4 Plate Offsets (X V)-- [2:Edge 0-1-15]

	3013 (71,1)	[2.Euge,0 1 10]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=3-11-4, 3=3-11-4, 4=3-11-4

Max Horz 1=45(LC 11)

Max Uplift 1=-14(LC 12), 3=-14(LC 12) Max Grav 1=91(LC 1), 3=91(LC 1), 4=112(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



Structural wood sheathing directly applied or 3-11-4 oc purlins.

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

August 5,2021

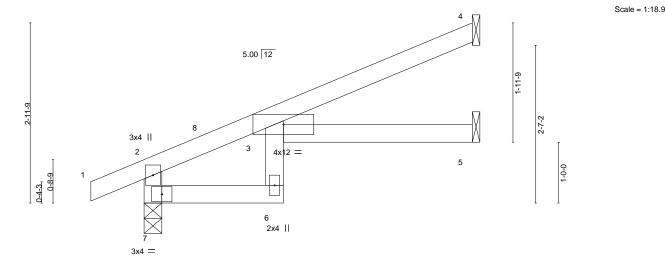


Job Truss Truss Type Qty Summit/55 Woodside 2889809 M1 JACK-OPEN 3 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Apr (2/18/49/2021) Rage 1 ID:M8LbXc_N5ZdPK2DzM2hvPgywaFi-1ezRDtl6yZuWzd GQNX lakety (2/18/49/2021) 5-4-12 5-4-12 2-3-8 3-1-4



	L			2-	3-0	1	5-4-12					
				2-	3-8			3-1-4		1		
Plate Offsets (X,Y) [3:0-0-0,0-0-0]												
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.08	6	>824	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	6	>568	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS	, ,					Weight: 16 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=89(LC 12)

Max Uplift 4=-33(LC 12), 7=-24(LC 12)

Max Grav 4=145(LC 1), 5=90(LC 3), 7=313(LC 1)

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

TOP CHORD 2-7=-329/170

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-0-9, Interior(1) 2-0-9 to 5-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

August 5,2021



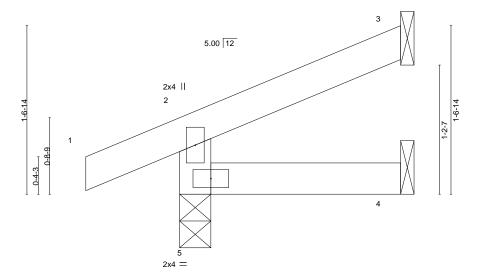
Job Truss Truss Type Qty Summit/55 Woodside 2889809 M2 JACK-OPEN 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS7 LEE'S SUMMIT. MISSOURI

Wed Art 612/48-47-2021 Rags 2 42DGb4 6857 x 22fMay 2 X 2 DH2

ID:UOuO859_0naEM6EINHbM8DzPWBV-WrXpQCJkjt0NbnN 2-0-12 2-0-12 0-10-8

Scale = 1:10.7



2-0-12

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 6 lb	FT = 20%

LUMBER-

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

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

Max Horz 5=50(LC 12) Max Uplift 3=-15(LC 12), 5=-29(LC 12)

Max Grav 3=48(LC 1), 4=33(LC 3), 5=175(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



Structural wood sheathing directly applied or 2-0-12 oc purlins,

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

August 5,2021

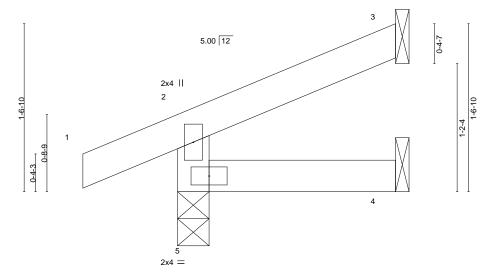


Job Truss Truss Type Qty Summit/55 Woodside 2889809 M3 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Arg (12/18/48/2021) Rage ID:UOuO859_0naEM6EINHbM8DzPWBV-_15BdYKMUA8EQxyfYoZsp) (73)/8/46 [b] 4/24/2/D 2-0-3 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

2-0-3 0-10-8

Scale = 1:10.7



2-0-3

BRACING-

TOP CHORD

BOT CHORD

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 6 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=35(LC 9)

Max Uplift 3=-25(LC 12), 5=-29(LC 8)

Max Grav 3=46(LC 1), 4=32(LC 3), 5=173(LC 1)

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=15ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 6) 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.



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

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

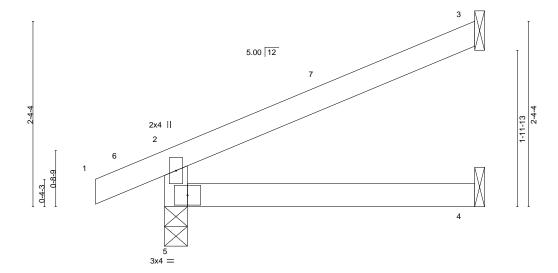


Job Truss Truss Type Qty Summit/55 Woodside 2889809 МЗА Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc Wed Arg 6240492021 Rage ID:UOuO859_0naEM6EINHbM8DzPWBV-SDfZruK_EUG5q4X 6V4hLttel av yPz/yubWzylot 3-11-4 3-11-4 3-11-4 0-10-8

Scale = 1:14.6



3-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 >999 240 197/144 **TCLL** TC 0.20 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=64(LC 12)

Max Uplift 3=-52(LC 12), 5=-33(LC 12) Max Grav 3=114(LC 1), 4=70(LC 3), 5=249(LC 1)

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=15ft; 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 3-10-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 6) 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.



Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

August 5,2021



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI O-1/16" 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

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

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

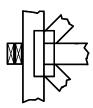
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

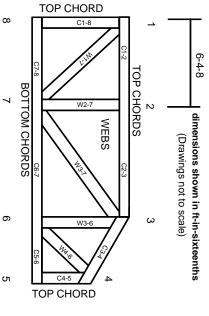
Min size shown is for crushing only

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

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- 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
- 15. 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.