



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

03/04/2021

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

Re: Jobs
SUMMIT/WOODSIDE RIDGE #140/MO

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

Pages or sheets covered by this seal: I44815375 thru I44815462

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

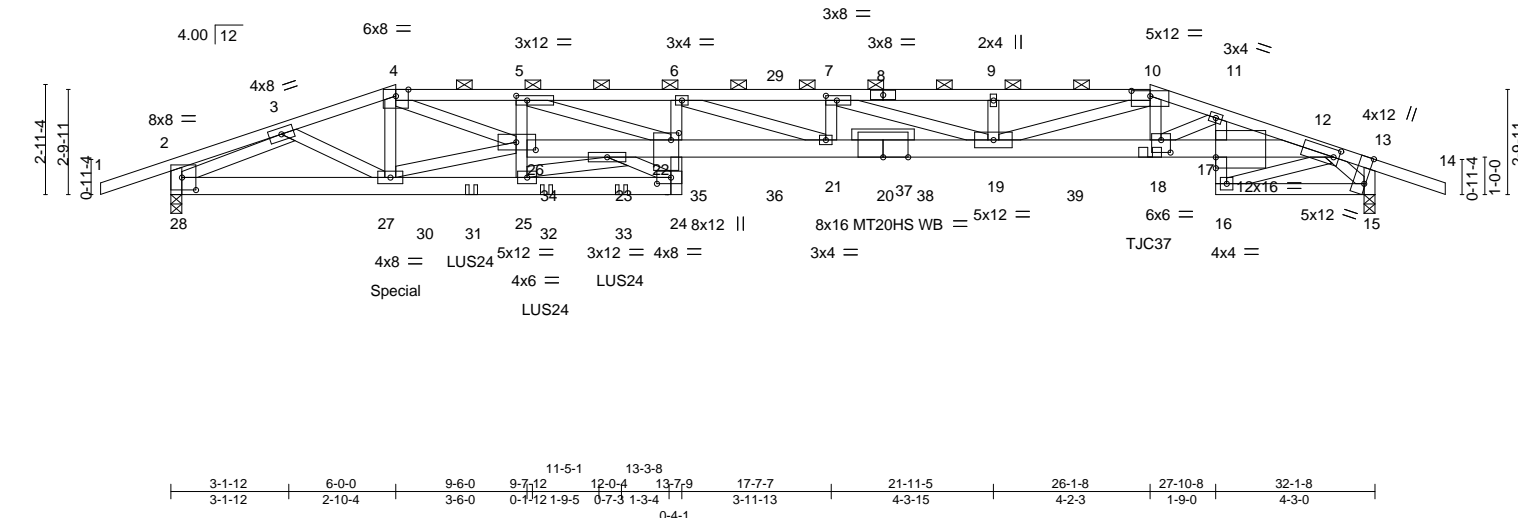
Missouri COA: Engineering 001193



February 15, 2021

Sevier, Scott ,Engineer

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



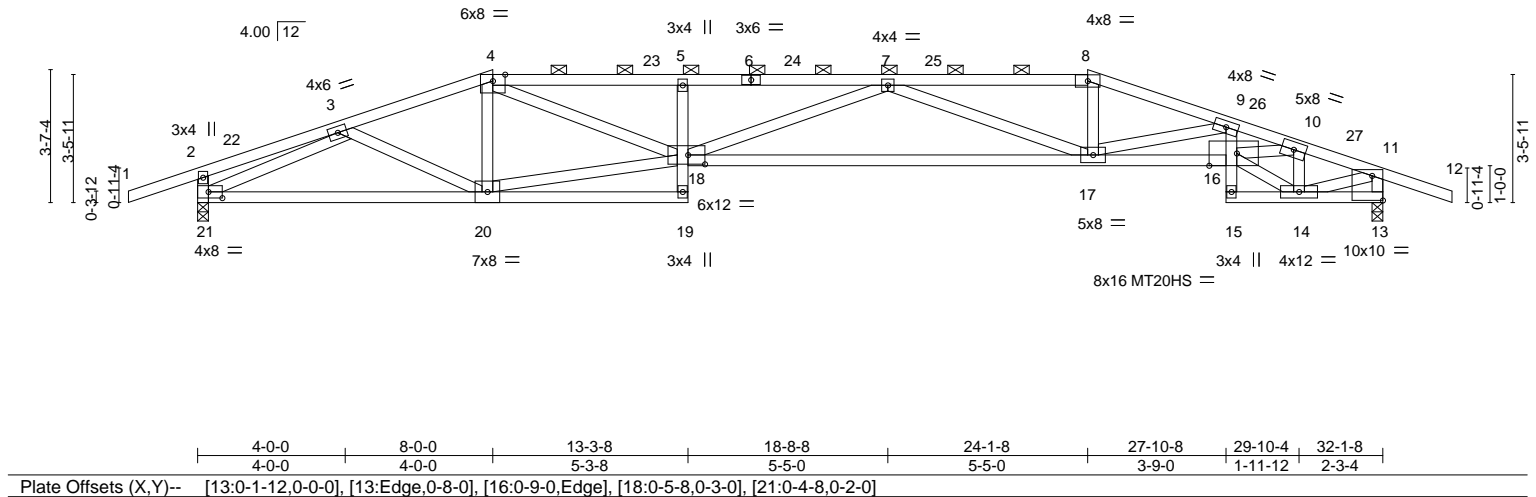
Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/04/2021</div> </div>		<div> <div>Ply</div> <div>2</div> </div>	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A1	Hip Girder				I44815375
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			<div> <div>Job Reference (optional)</div> <div>9 2020 MiTek Industries, Inc. Mon Feb 15 12:49:58 2021 Page 2</div> <div>ID:X_h1Y?HVzNtCEdCgmVZOKBz3guD-eru7mJdZaqlsoo9Q3pV0WxUpgvjU?SQT2G7NUOzkuCd</div> </div>	

- NOTES-**
- 8) Bearing at joint(s) 28, 15 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 697 lb uplift at joint 28 and 687 lb uplift at joint 15.
 - 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-0-4 from the left end to 12-0-4 to connect truss(es) to back face of bottom chord.
 - 13) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 26-1-8 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - 14) Fill all nail holes where hanger is in contact with lumber.
 - 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 521 lb down and 161 lb up at 6-0-0, 202 lb down and 44 lb up at 14-0-4, 202 lb down and 44 lb up at 16-0-8, 202 lb down and 44 lb up at 18-0-12, 202 lb down and 44 lb up at 20-0-12, and 202 lb down and 44 lb up at 22-0-12, and 202 lb down and 44 lb up at 24-0-12 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, 4-10=-70, 10-14=-70, 24-28=-20, 17-22=-20, 15-16=-20
 - Concentrated Loads (lb)
 - Vert: 19=-202 18=-497(B=-295) 30=-521(B) 31=-226(B) 32=-226(B) 33=-226(B) 35=-202 36=-202 37=-202 38=-202 39=-202

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	1	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A2	Hip					I44815376
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Mar 9 2020		Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-xCpmEijyx_At8tBmzn7fIPh_Oj958b0VfsJFEUzkuCW	
-1-10-8 1-10-8		4-0-0 4-0-0		4-5-11 0-5-11		8-0-0 3-6-5	
13-3-8 5-3-8		18-8-8 5-5-0		24-1-8 5-5-0		27-10-8 3-9-0	
29-10-4 1-11-12		32-1-8 2-3-4		34-0-0 1-10-8			

Scale = 1:62.5



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 0.90	Vert(LL)	-0.49 17-18	>778	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-1.07 17-18	>357	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.32 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 142 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2 *Except*		2-0-0 oc purlins: 4-8.
	16-18: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS.	(size) 13=0-3-8, 21=0-3-8
	Max Horz 21=-33(LC 17)
	Max Uplift 13=-398(LC 9), 21=-398(LC 8)
	Max Grav 13=1574(LC 1), 21=1574(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-333/53, 3-4=-2775/670, 4-5=-4931/1150, 5-7=-5083/1154, 7-8=-3879/887, 8-9=-4054/900, 9-10=-5090/1179, 10-11=-2032/484, 2-21=-399/180, 11-13=-1499/449
BOT CHORD	20-21=-552/2351, 19-20=-106/280, 5-18=-427/175, 17-18=-1101/5010, 16-17=-1125/5061, 9-16=-120/600, 14-15=-85/409
WEBS	4-20=-460/156, 18-20=-444/2425, 4-18=-532/2468, 8-17=-131/896, 9-17=-1253/409, 14-16=-359/1724, 10-16=-645/2944, 10-14=-1569/364, 11-14=-438/1913, 3-21=-2389/652, 3-20=-34/441, 7-18=-108/304, 7-17=-1346/419

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 34-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) 21 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 398 lb uplift at joint 13 and 398 lb uplift at joint 21.
 - 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.



February 15, 2021

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

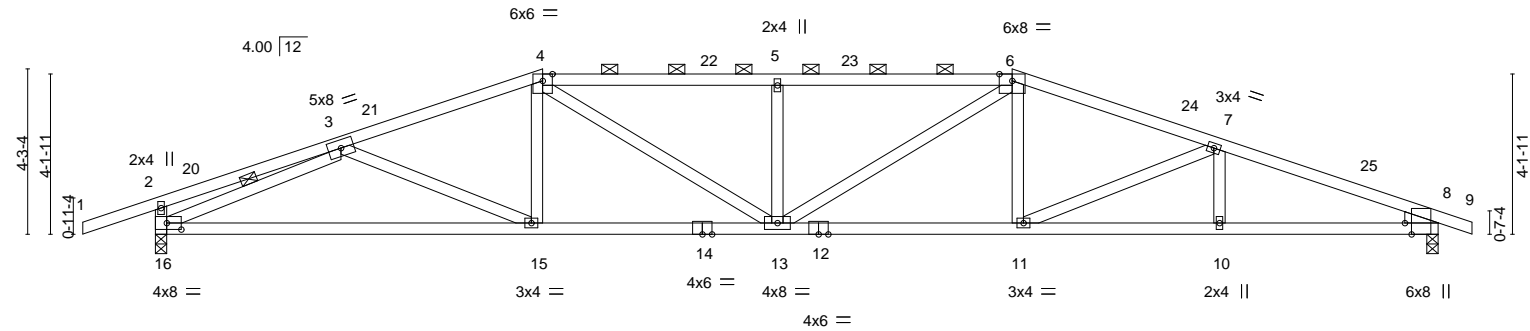
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A3	Hip			1	144815377
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-PON8S2jbiHkl1myXUfurdpDo7Rkt8CeuW3omwzkuCV			
-1-10-8 1-10-8			4-9-8 4-9-8		5-1-12 0-4-4	10-0-0 4-10-4
16-0-12 6-0-12			22-1-8 6-0-12		27-5-12 5-4-4	33-1-8 5-7-12
34-0-0 0-10-8						

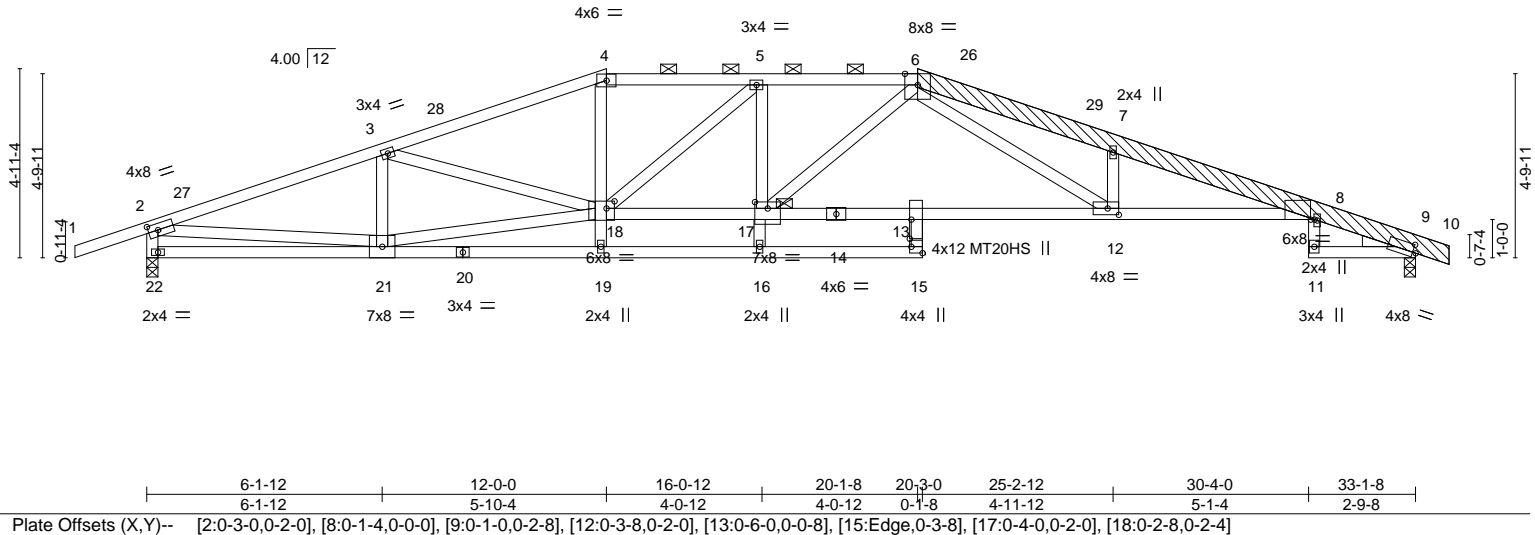
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		10-0-0		16-0-12		22-1-8		27-5-12		33-1-8	
		10-0		6-0-12		6-0-12		5-4-4		5-7-12	
Plate Offsets (X,Y)-- [8:0-1-14,0-6-14], [8:0-3-8,Edge], [16:0-4-8,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.67	Vert(LL)	-0.33 15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15		BC	0.91	Vert(CT)	-0.70 15-16	>567	180		
BCLL	0.0	Rep Stress Incr YES		WB	0.48	Horz(CT)	0.14 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 130 lb	FT = 20%

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815378
Jobs	A4	Hip				1	Job Reference (optional)	
			8.240 s Apr 4 2020 MiTek Industries, Inc. Mon Feb 15 13:58:54 2021 Page 1					
			ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-IjSGBaTSZh0Az3TH6_dtVdneS9KA331F7l0EfkzIC?					
			25-2-12 30-4-0 33-1-8 34-0-0					
			4-11-12 5-1-4 2-9-8 0-10-8					

Scale = 1:60.2



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 0.77	Vert(LL) -0.49 12-13 >808 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.96 12-13 >411 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.33 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 185 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	6-10: 2x6 SPF 2100F 1.8E
BOT CHORD	2x4 SPF No.2 *Except*
	8-14: 2x4 SP 2400F 2.0E
WEBS	2x4 SPF No.2
OTHERS	2x6 SPF 2100F 1.8E
LBR SCAB	6-10 2x6 SPF 2100F 1.8E one side
WEDGE	
Right:	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-11-12 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 17

REACTIONS.

(lb/size) 9=1547/0-3-8, 22=1629/0-3-8
Max Horz 22=-85(LC 13)
Max Uplift 9=-339(LC 9), 22=-387(LC 8)

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

TOP CHORD	2-27=-2974/701, 3-27=-2911/720, 3-28=-3235/785, 4-28=-3167/805, 4-5=-3039/802, 5-6=-3372/854, 6-26=-5270/1319, 26-29=-5296/1310, 7-29=-5360/1301, 7-8=-5197/1201, 8-9=-528/160
BOT CHORD	20-21=-144/541, 19-20=-144/541, 16-19=-132/448, 15-16=-136/444, 17-18=-531/2924, 14-17=-541/2797, 13-14=-541/2797, 12-13=-674/3240, 8-12=-1092/5035
WEBS	3-21=-566/210, 3-18=-44/453, 4-18=-102/677, 6-12=-508/2178, 7-12=-906/315, 18-21=-470/2253, 5-18=-617/127, 6-17=-44/393, 2-21=-619/2780, 2-22=-1577/482

NOTES-

- 1) Attached 14-9-5 scab 6 to 10, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 3-5-11 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-10-14.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 16-0-12, Interior(1) 16-0-12 to 20-1-8, Exterior(2R) 20-1-8 to 24-7-7, Interior(1) 24-7-7 to 34-0-0 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 22 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 339 lb uplift at joint 9 and 387 lb uplift at joint 22.
- 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.



February 15, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personnel 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 Code**

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



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Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/04/2021</div> </div>		1	SUMMIT/WOODSIDE RIDGE #140/MO	I44815378
Jobs	A4	Hip				Job Reference (optional)	

NOTES-

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

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Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A5	Hip			1	144815379
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		Mon Feb 15 12:50:09 2021 Page 1
				ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-pz2H44mT_CglcVVXCCbTFRhELUj4OC4aUHSNFzkuCS		
7-0-4		13-9-0		17-10-8		20-0-0
7-0-4		6-8-12		4-1-8		2-1-8
				25-0-8		5-0-8
				30-1-0		5-0-8
				32-10-8		33-9-0
				2-9-8		0-10-8

Scale = 1:58.2

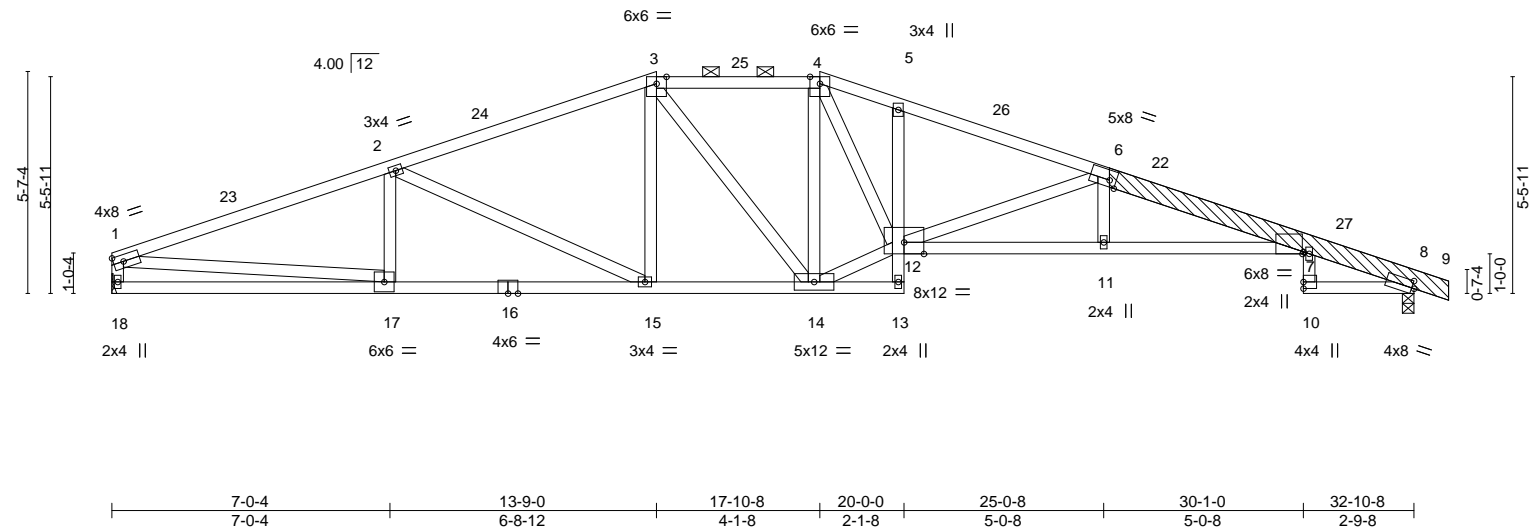


Plate Offsets (X,Y)--		[6:0-2-0,Edge], [7:0-0-5,Edge], [8:0-0-12,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.85
TCDL 10.0	Lumber DOL	1.15	BC 0.90
BCLL 0.0	Rep Stress Incr	YES	WB 0.92
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.49 7-11 >804 240
			Vert(CT) -0.88 7-11 >444 180
			Horz(CT) 0.35 8 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 163 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
6-9: 2x6 SPF 2100F 1.8E	2-0-0 oc purlins (3-8-9 max.): 3-4.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
7-12: 2x4 SP 2400F 2.0E	
WEBS 2x4 SPF No.2	
OTHERS 2x6 SPF 2100F 1.8E	
LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side	

REACTIONS.	(size) 18=Mechanical, 8=0-3-8
	Max Horz 18=112(LC 13)
	Max Uplift 18=284(LC 8), 8=329(LC 9)
	Max Grav 18=1472(LC 1), 8=1535(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2936/722, 2-3=-2473/673, 3-4=-2295/664, 4-5=-3281/872, 5-6=-3417/851, 6-7=-4926/1135, 7-8=-587/172
BOT CHORD	15-17=-603/2742, 14-15=-457/2266, 11-12=-1028/4812, 7-11=-1031/4801
WEBS	2-15=-583/210, 3-15=-44/358, 4-14=-1003/237, 12-14=-439/2362, 4-12=-438/1904, 6-12=-1732/407, 1-18=-1413/364, 1-17=-639/2759

- NOTES-**
- Attached 9-2-2 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-5 from end at joint 6, nail 2 row(s) at 4" o.c. for 2-0-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-9-0, Exterior(2E) 13-9-0 to 17-10-8, Exterior(2R) 17-10-8 to 22-1-7, Interior(1) 22-1-7 to 33-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 18 and 329 lb uplift at joint 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A6	Roof Special			1	144815380
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		Mon Feb 15 12:50:10 2021 Page 1
				ID: X_h1Y?HVzNtCEdCgmZOKBz3guD-H9cfHQn5lWo9Ee4jmKjq?T_s2kpxprlEp810vzhkuCR		
8-0-10		15-9-12		20-0-0		25-0-8
8-0-10		7-9-2		4-2-4		5-0-8
						30-1-0
						32-10-8
						33-9-0
						0-10-8

Scale = 1:56.1

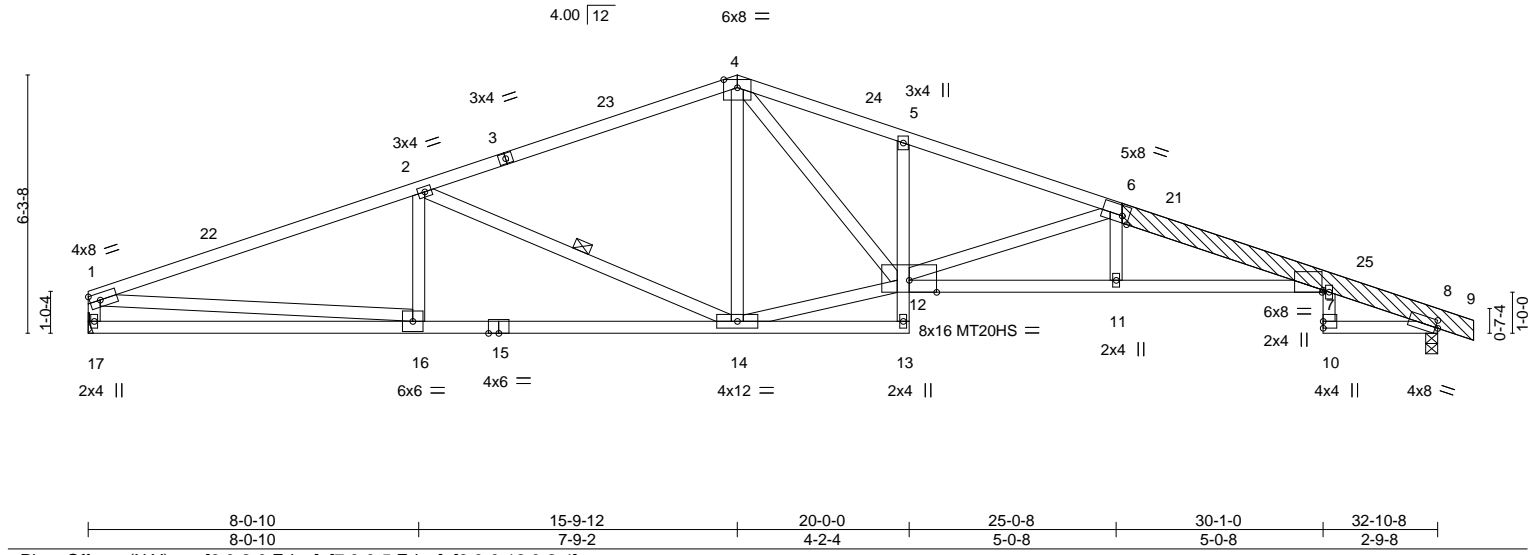


Plate Offsets (X,Y)--		[6:0-2-0,Edge], [7:0-0-5,Edge], [8:0-0-12,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.84
TCDL 10.0	Lumber DOL	1.15	BC 0.90
BCLL 0.0	Rep Stress Incr	YES	WB 0.90
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.49 7-11 >803 240
			Vert(CT) -0.89 7-11 >443 180
			Horz(CT) 0.34 8 n/a n/a
			PLATES
			MT20 197/144
			MT20HS 148/108
			Weight: 158 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied.
1-3: 2x4 SPF 1650F 1.5E, 6-9: 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 2-14
7-12: 2x4 SP 2400F 2.0E	
WEBS 2x4 SPF No.2	
OTHERS 2x6 SPF 2100F 1.8E	
LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side	

REACTIONS.	(size) 17=Mechanical, 8=0-3-8
	Max Horz 17=-125(LC 13)
	Max Uplift 17=-269(LC 8), 8=-316(LC 9)
	Max Grav 17=1472(LC 1), 8=1535(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2958/660, 2-4=-2254/568, 4-5=-3339/828, 5-6=-3419/778, 6-7=-4923/1048, 7-8=-587/163
BOT CHORD	14-16=-530/2757, 5-12=-299/151, 11-12=-942/4809, 7-11=-945/4798
WEBS	2-14=-858/277, 12-14=-290/1926, 4-12=-388/1731, 6-12=-1725/382, 1-17=-1406/352, 1-16=-568/2770

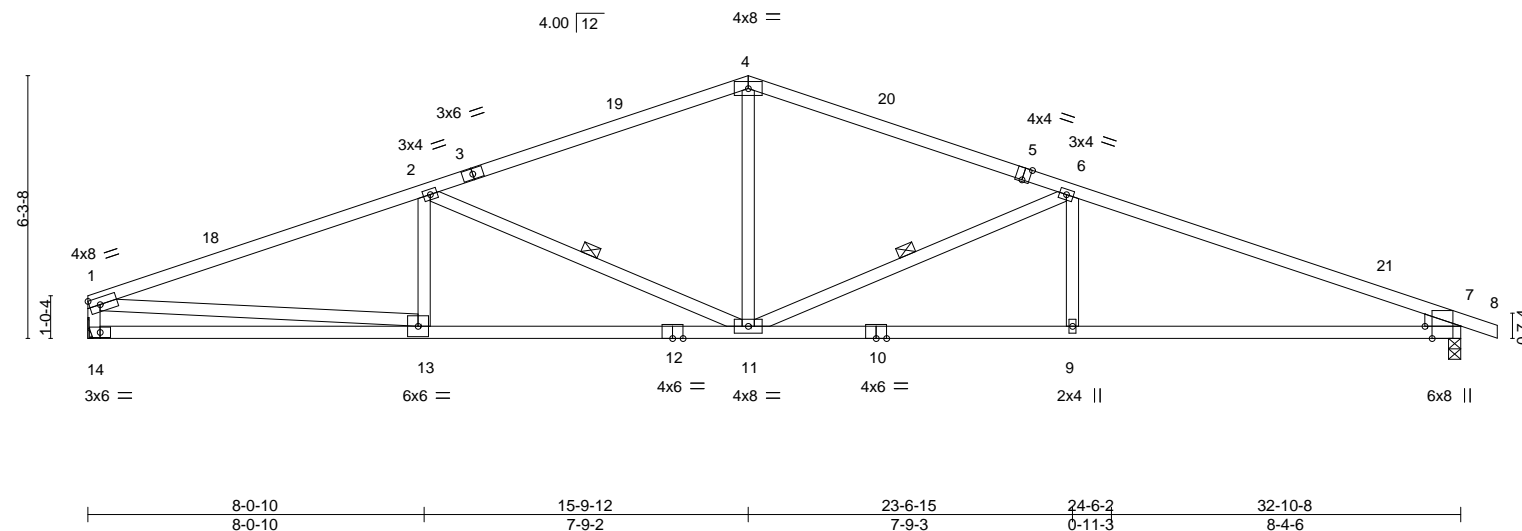
- NOTES-**
- 1) Attached 9-2-2 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-5 from end at joint 6, nail 2 row(s) at 4" o.c. for 2-0-0.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-9-12, Exterior(2R) 15-9-12 to 18-9-12, Interior(1) 18-9-12 to 33-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 17 and 316 lb uplift at joint 8.
 - 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.



February 15, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A7	Common			1	144815381
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional)		
ID: X_h1Y?HVzNtCEdCgmVZ0k8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:11 2021 Page 1 Bz3guD-ILA1VlnjWqx0soewK1E3YgX3_89cYMPN2omZR8zkuCQ						
8-0-10		15-9-12		23-6-15		26-11-15
8-0-10		7-9-2		7-9-3		3-5-0
		03/04/2021				32-10-8
						5-10-9
						33-9-0
						0-10-8

Scale = 1:55.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.24 9-11 >999	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.46 9-11 >846				
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.10 7 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 121 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied.
	1-3: 2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied.
BOT CHORD	2x4 SPF No.2	WEBS	1 Row at midpt 2-11, 6-11
WEBS	2x4 SPF No.2		
WEDGE			
Right: 2x4 SPF No.2			

REACTIONS.	
(size)	7=0-3-8, 14=Mechanical
Max Horz	14=-121(LC 13)
Max Uplift	7=-316(LC 9), 14=-269(LC 8)
Max Grav	7=1535(LC 1), 14=1472(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-2951/659, 2-4=-2267/570, 4-6=-2264/566, 6-7=-3260/720
BOT CHORD	11-13=-532/2750, 9-11=-594/3002, 7-9=-594/3002
WEBS	2-11=-849/277, 4-11=-141/876, 6-11=-1092/333, 6-9=0/320, 1-14=-1405/352, 1-13=-566/2763

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-9-12, Exterior(2R) 15-9-12 to 18-9-12, Interior(1) 18-9-12 to 33-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 7 and 269 lb uplift at joint 14.
 - 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.
 - 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.



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="border: 2px solid black; padding: 5px; color: red; font-weight: bold;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A8	Common		1	I44815382

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 16.240 sq Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:12 2021 Page 1

ID: X_h1Y?HVzNtCedCgmzv2OkBz3guD-EYkPi5oLH73tTyD6tImI5u3BpYVlHhPWGWSW6_azkuCP

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Scale = 1:57.5

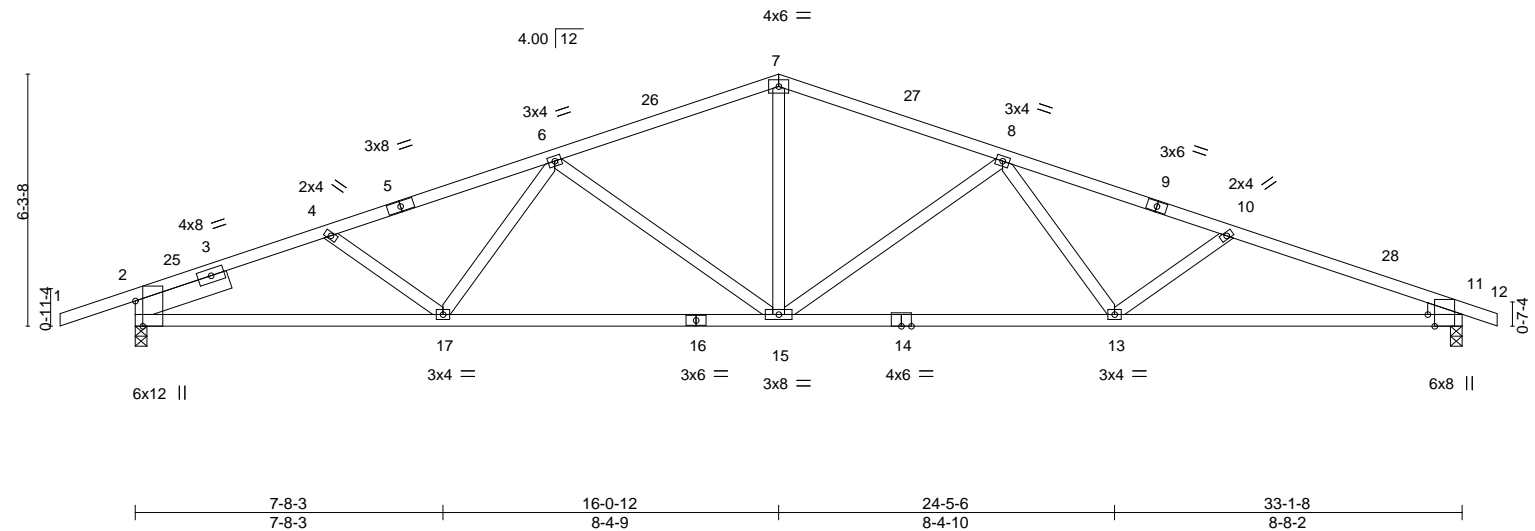


Plate Offsets (X,Y)-- [2:0-7-9,Edge], [11:0-1-14,0-6-14], [11:0-3-8,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.95		Vert(LL) -0.28 13-15 >999 240		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.84		Vert(CT) -0.56 15-17 >713 180			
BCLL 0.0		Rep Stress Incr YES		WB 0.70		Horz(CT) 0.14 11 n/a n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS				Weight: 127 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	1-5,9-12: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E *Except*
	14-16: 2x4 SPF No.2
WEBS	2x4 SPF No.2

WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=107(LC 16)
 Max Uplift 2=-355(LC 8), 11=-317(LC 9)
 Max Grav 2=1625(LC 1), 11=1549(LC 1)

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

TOP CHORD 2-4=-2855/653, 4-6=-2817/633, 6-7=-2274/572, 7-8=-2271/576, 8-10=-3123/699,
10-11=-3408/763

BOT CHORD 2-17=-526/2601, 15-17=-499/2605, 13-15=-525/2727, 11-13=-650/3158

WEBS 6-15=-693/246, 7-15=-201/1053, 8-15=-823/272, 8-13=-37/413, 10-13=-323/178

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 16-0-12, Exterior(2R) 16-0-12 to 19-0-12, Interior(1) 19-0-12 to 34-0-0 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 317 lb uplift at joint 11.
- 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) 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.



February 15, 2021



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A9	Roof Special			1	I44815383
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-iklnwRp_2RBk56olRSHXd5cSQysM0KyGv6FgW0zkuCO 03/04/2021		

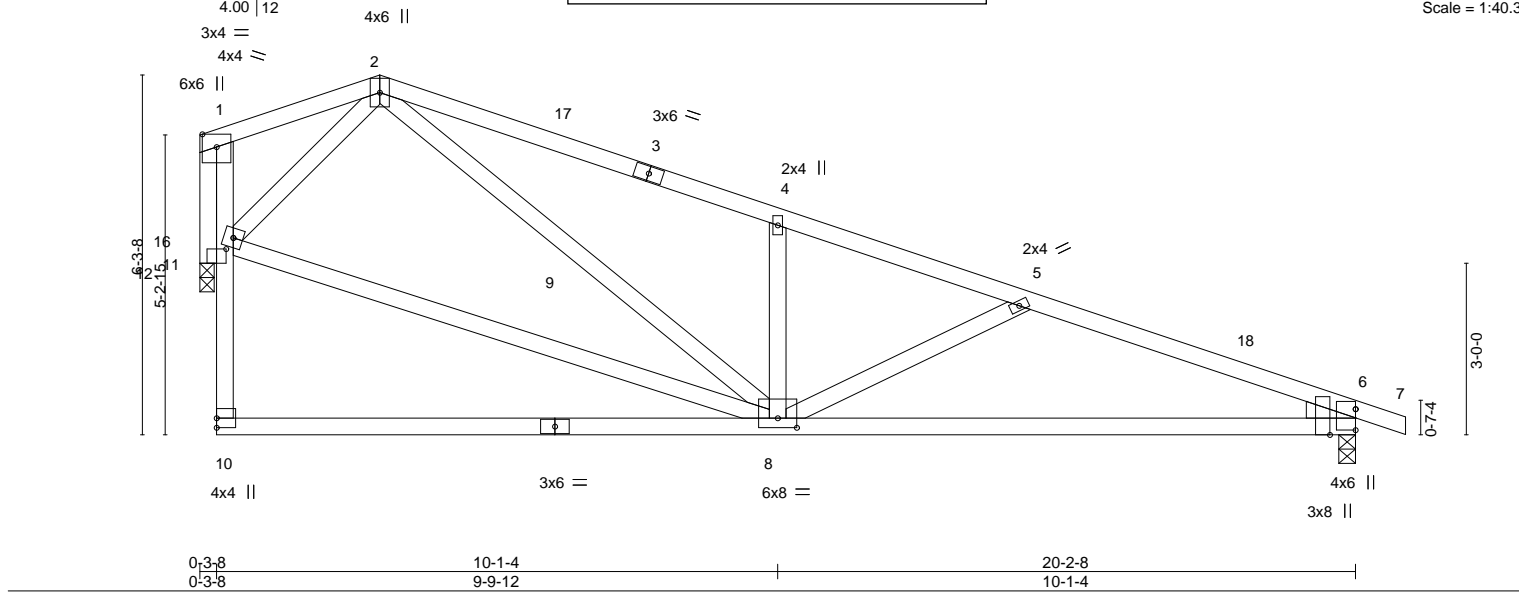


Plate Offsets (X,Y)-- [6:0-5-6,Edge], [8:0-4-0,0-2-0], [11:0-1-8,0-2-5]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.17 8-10	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.37 8-10	>656	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	-0.01 6	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 92 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS.	(size) 6=0-3-8, 16=0-3-0
	Max Horz 16=-216(LC 10)
	Max Uplift 6=-240(LC 9), 16=-165(LC 9)
	Max Grav 6=966(LC 1), 16=875(LC 1)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1477/452, 4-5=-1442/362, 5-6=-1806/442, 1-11=-218/820
BOT CHORD	6-8=-354/1658
WEBS	8-11=-79/604, 2-11=-775/347, 2-8=-288/964, 4-8=-446/216, 5-8=-363/159, 1-16=-883/229

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-1-12, Exterior(2R) 3-1-12 to 6-1-12, Interior(1) 6-1-12 to 21-1-0 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 6 and 165 lb uplift at joint 16.
 - 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.
 - 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.



February 15, 2021

Job: Truss

JOBS: A10

Truss Type: Roof Special

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/04/2021

Ply: 1

SUMMIT/WOODSIDE RIDGE #140/MO

144815384

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

Job Reference (optional): 9 2020 MiTek Industries, Inc. Mon Feb 15 12:49:59 2021 Page 1

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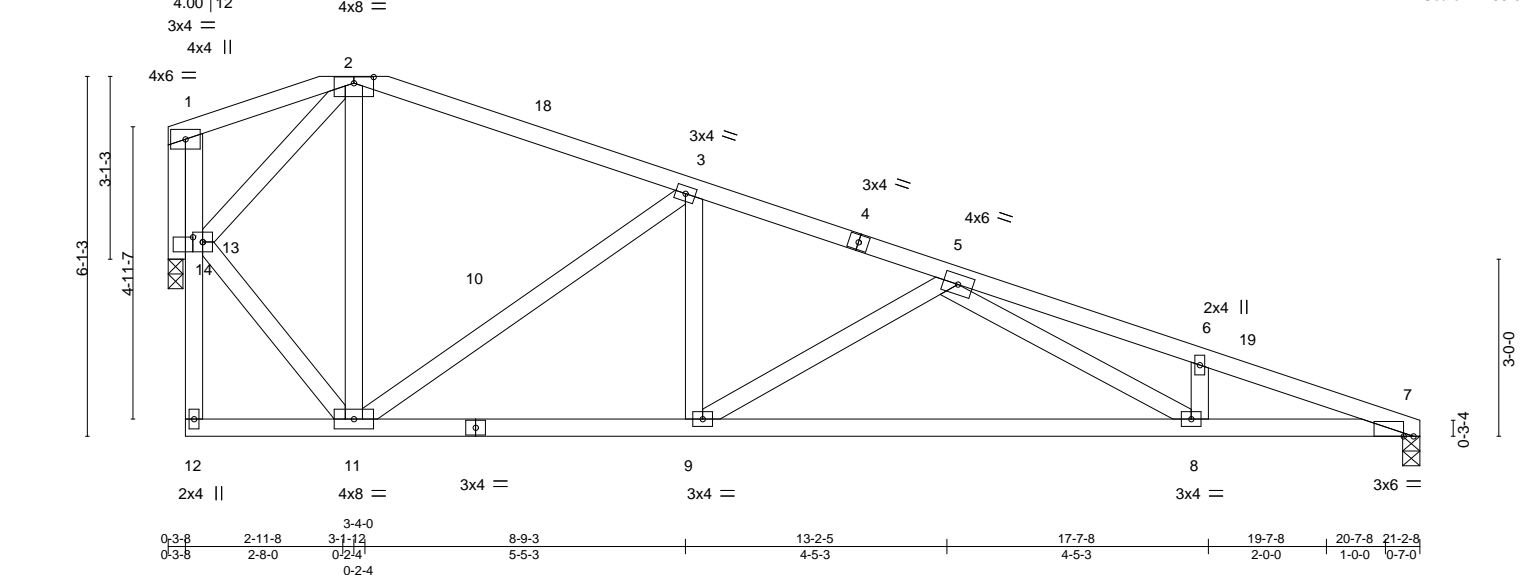


Plate Offsets (X,Y)--		[2:0-4-0,0-1-4], [7:0-2-0,0-0-0], [13:0-2-0,0-1-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.30	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) -0.15 8-9 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.33 8-9 >743 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 7 n/a n/a
	Code IRC2018/TPI2014		
			PLATES GRIP
			MT20 197/144
			Weight: 96 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 7=0-3-8, 14=0-3-0
 Max Horz 14=-222(LC 13)
 Max Uplift 7=-210(LC 9), 14=-176(LC 9)
 Max Grav 7=930(LC 1), 14=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-478/211, 3-5=-1319/348, 5-6=-2509/592, 6-7=-2500/535
 BOT CHORD 13-14=-820/134, 9-11=-197/1210, 8-9=-364/1727, 7-8=-477/2351
 WEBS 3-9=-43/485, 5-9=-602/210, 2-11=-147/261, 3-11=-1002/264, 11-13=-8/601,
 2-13=-608/317, 5-8=-137/736

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-1-12, Exterior(2R) 3-1-12 to 6-1-12, Interior(1) 6-1-12 to 21-1-3 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 7, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 7 and 176 lb uplift at joint 14.
 - 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.
 - 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.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A11	Roof Special	ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-aE?B?fq6RYa16JoAEYUbMaEkiRITKrWacUYHzkuCb		1	144815385
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)			
			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:00 2021 Page 1			
			03/04/2021			

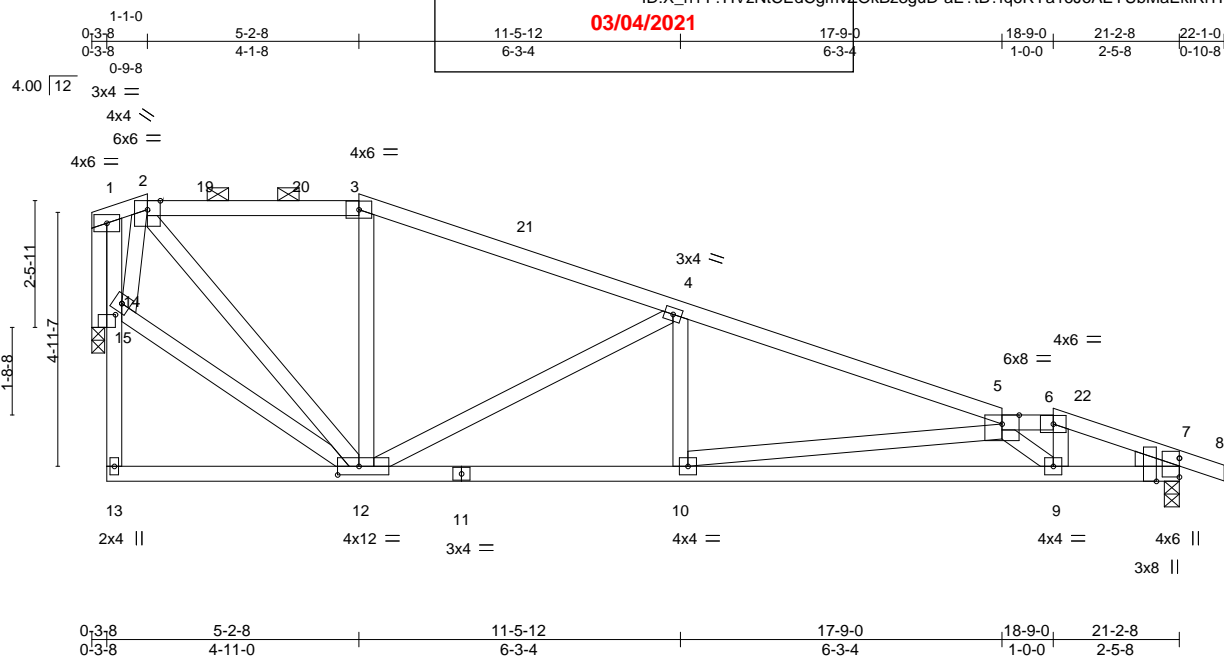


Plate Offsets (X,Y)-- [7:0-5-6,Edge], [12:0-5-0,0-2-0], [14:0-1-8,0-2-10]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.12	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.27	9-10	>938	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 101 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (4-4-9 max.): 2-3, 5-6.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS. (size) 7=0-3-8, 15=0-3-0
Max Horz 15=211(LC 9)
Max Uplift 7=253(LC 9), 15=208(LC 9)
Max Grav 7=997(LC 1), 15=933(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-692/304, 3-4=-801/283, 4-5=-1770/451, 5-6=-1680/400, 6-7=-1914/429
BOT CHORD 14-15=-801/154, 10-12=-327/1617, 9-10=-593/2524, 7-9=-367/1781
WEBS 12-14=0/314, 2-14=-816/387, 2-12=-307/711, 4-12=-1043/292, 4-10=0/394,
5-10=-920/276, 6-9=-146/748, 5-9=-1152/355

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 1-1-0, Exterior(2R) 1-1-0 to 4-1-0, Interior(1) 4-1-0 to 5-2-8, Exterior(2R) 5-2-8 to 8-2-8, Interior(1) 8-2-8 to 18-9-0, Exterior(2R) 18-9-0 to 21-9-0, Interior(1) 21-9-0 to 22-1-0 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
 - 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.
 - Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 7 and 208 lb uplift at joint 15.
 - 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

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

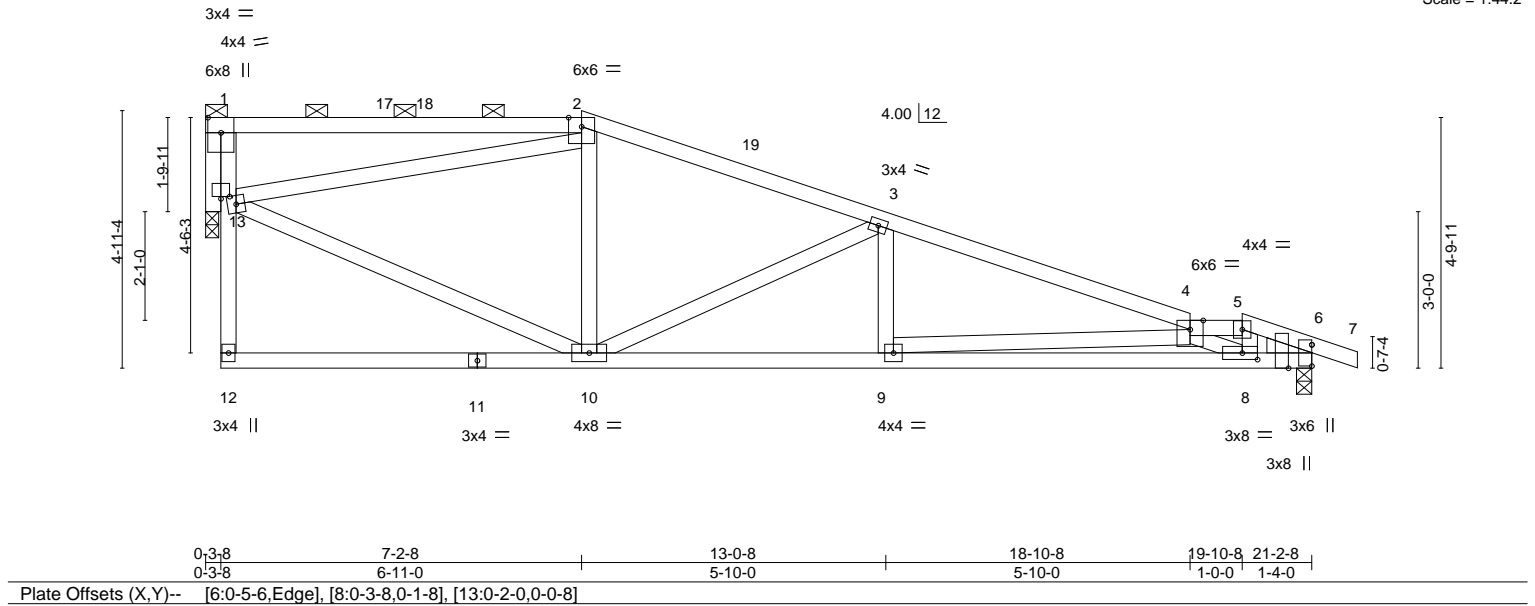
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	A12	Roof Special	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES		1	I44815386
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)			
0-3-8 7-2-8 13-0-8 18-10-8 19-10-8 21-2-8 22-1-0			ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-2QZFPLgStlgRfGt?kx3j8Z6OR6mRCoxviEL15jzkuCa			
0-3-8 6-11-0 5-10-0 5-10-0 1-0-0 1-4-0 0-10-8			9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:01 2021 Page 1			

Scale = 1:44.2



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 0.52	Vert(LL)	-0.11	8-9	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.25	8-9	>999	180	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.77	Horz(CT)	-0.01	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (4-10-15 max.): 1-2, 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS.	(size) 6=0-3-8, 13=0-3-0
	Max Horz 13=188(LC 9)
	Max Uplift 6=255(LC 9), 13=205(LC 9)
	Max Grav 6=997(LC 1), 13=933(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1114/338, 3-4=-1972/491, 4-5=-1436/276, 5-6=-1572/278
BOT CHORD	1-13=-254/110, 9-10=-391/1826, 8-9=-632/2709, 6-8=-252/1518
WEBS	10-13=-191/1053, 2-13=-886/295, 2-10=-22/262, 3-10=-916/271, 3-9=0/323, 4-9=-890/260, 5-8=-30/415, 4-8=-1486/463

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 19-10-8, Exterior(2E) 19-10-8 to 22-1-0 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
 - 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.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 6 and 205 lb uplift at joint 13.
 - 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: Truss

Jobs: A14

Truss Type: HIP GIRDER

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/04/2021

Ply: 3

SUMMIT/WOODSIDE RIDGE #140/MO

I44815388

Job Reference (optional)

8.240 s Apr 4 2020 MiTek Industries, Inc. Mon Feb 15 13:59:39 2021 Page 1

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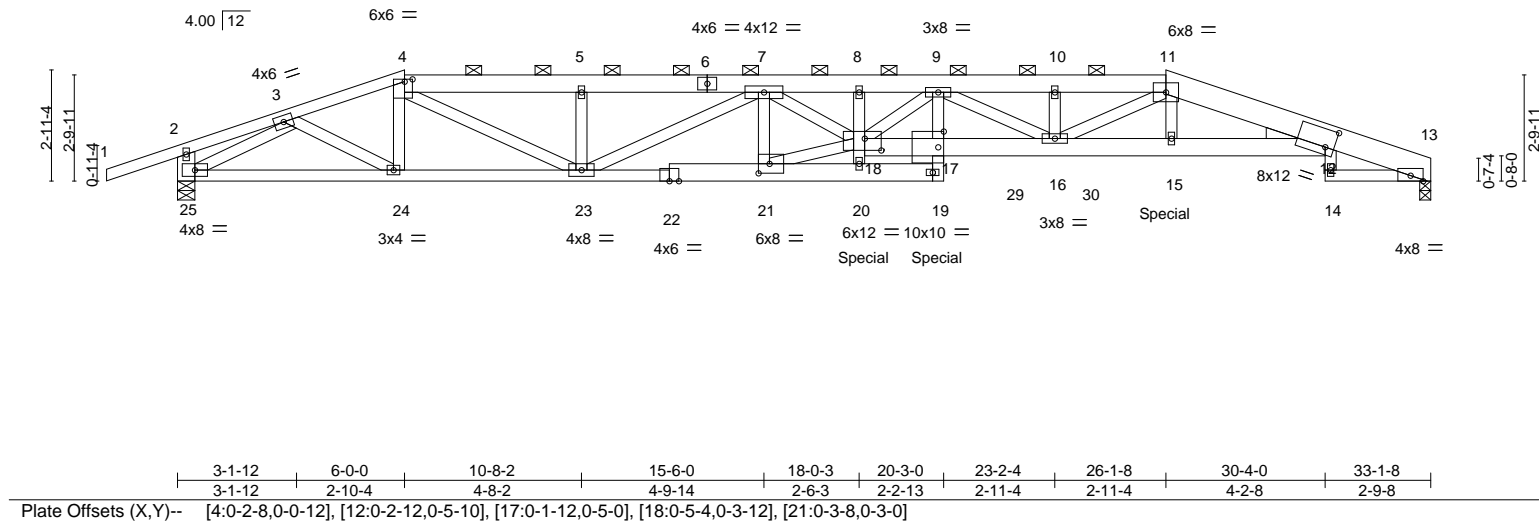
-1-10-8 | 3-1-12 | 6-0-0 | 10-8-2

1-10-8 | 3-1-12 | 2-10-4 | 4-8-2

15-6-0 | 18-0-3 | 20-3-0 | 23-2-4 | 26-1-8 | 30-4-0 | 33-1-8 | 34-0-0

4-9-14 | 2-6-3 | 2-2-13 | 0-4-4 | 2-7-0 | 2-11-4 | 4-2-8 | 2-9-8 | 0-10-8

Scale = 1:60.9



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.37 18 >999 240		
BCLL 0.0	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.65 18 >605 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.19 13 n/a n/a		
	Code IRC2018/TPI2014			Weight: 513 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4: 2x4 SPF No.2, 11-13: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*
12-18: 2x6 SPF 2100F 1.8E, 19-22: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except*
2-25: 2x6 SPF No.2

WEDGE
Right: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-11.

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

REACTIONS. (lb/size) 25=2324/0-5-8, 13=2606/0-3-8
Max Horz 25=51(LC 12)
Max Uplift 25=576(LC 4), 13=616(LC 5)

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

TOP CHORD 3-4=-4474/997, 4-5=-7252/1650, 5-6=-7246/1645, 6-7=-7246/1645, 7-8=-13525/3061, 8-9=-13865/3135, 9-10=-11450/2659, 10-11=-11450/2659, 11-12=-9967/2359, 12-13=-1032/265

BOT CHORD 24-25=-721/3280, 23-24=-909/4278, 22-23=-2065/9459, 21-22=-2064/9458, 20-21=-214/990, 17-18=-2976/13452, 17-29=-2976/13452, 16-29=-2976/13452, 16-30=-2233/9695, 15-30=-2233/9695, 12-15=-2245/9739, 12-14=-75/359

WEBS 3-24=-211/1153, 4-24=-419/149, 4-23=-805/3432, 5-23=-550/193, 7-23=-2519/576, 7-21=-1912/474, 11-16=-437/2175, 11-15=-163/643, 18-20=-207/1047, 8-18=-45/276, 7-18=-1076/4809, 18-21=-1909/8730, 9-16=-2333/493, 17-19=-79/456, 9-18=-116/613, 9-17=-28/305, 2-25=-315/191, 3-25=-3822/789

NOTES-

1) 3-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, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) All plates are 2x4 MT20 unless otherwise indicated.

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

8) Bearing at joint(s) 25, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815388
Jobs	A14	HIP GIRDER	ID: X_h1Y?HVzNtCEdCgmvZOkBz3guD-uz4G1z0gzWgnszPwFxxQq79OJlh?6OgtTFQ6kYzktBI		3	Job Reference (optional) 8.240 s Apr 4 2020 MiTek Industries, Inc. Mon Feb 15 13:59:39 2021 Page 2	

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 576 lb uplift at joint 25 and 616 lb uplift at joint 13.
 - 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1050 lb down and 242 lb up at 18-1-15, 226 lb down and 51 lb up at 20-1-4, 60 lb down and 22 lb up at 22-0-12, 60 lb down and 22 lb up at 24-0-12, and 60 lb down and 22 lb up at 26-0-12, and 375 lb down and 165 lb up at 26-1-8 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, 4-11=-70, 11-12=-70, 12-13=-70, 19-25=-20, 12-17=-20, 14-26=-20
 - Concentrated Loads (lb)
 - Vert: 15=-435(F=-375) 19=-226(F) 20=-1050(F) 29=-60 30=-60

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		Ply	1	SUMMIT/WOODSIDE RIDGE #140/MO	I44815389
JOBS	B1	Hip Girder					Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID: X_h1Y?HVzNtCEdCgm		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:14 2021 Page 1			
<div style="display: flex; justify-content: space-between;"> <div>1-10-8 1-10-8</div> <div>4-0-0 4-0-0</div> <div>8-0-0 4-0-0</div> <div>12-0-0 4-0-0</div> <div>13-10-8 1-10-8</div> </div>								

Scale = 1:26.1

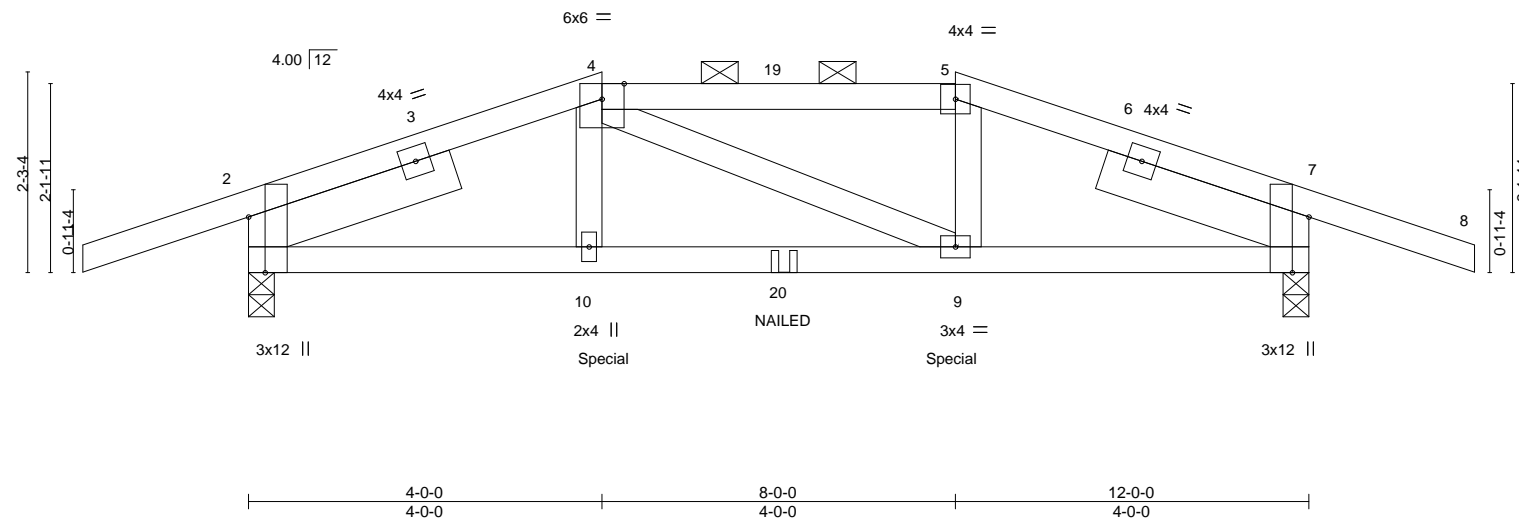


Plate Offsets (X,Y)--		[2:0-7-9,Edge], [7:0-7-9,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.05	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.11		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.03		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS				Weight: 50 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except
 2-0-0 oc purlins (5-3-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-37(LC 5)
 Max Uplift 2=-229(LC 4), 7=-229(LC 5)
 Max Grav 2=837(LC 1), 7=837(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1110/225, 4-5=-1007/223, 5-7=-1111/224
 BOT CHORD 2-10=-173/1021, 9-10=-174/1006, 7-9=-159/1021
 WEBS 4-10=0/250, 5-9=-11/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 167 lb down and 53 lb up at 4-0-0, and 167 lb down and 53 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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, 5-8=-70, 11-15=-20
 Concentrated Loads (lb)
 Vert: 10=-167(B) 9=-167(B) 20=2(B)



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO I44815390 Job Reference (optional)
JOBS	B2	Common	8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:15 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmVZOkBz3guD-e7PYL7qEa2RSKQyhZtJ?iWh5lg6UJDzzPknvzkuCM		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					
-1-10-8 1-10-8			6-0-0 6-0-0		
			12-0-0 6-0-0		
			13-10-8 1-10-8		

Scale = 1:25.3

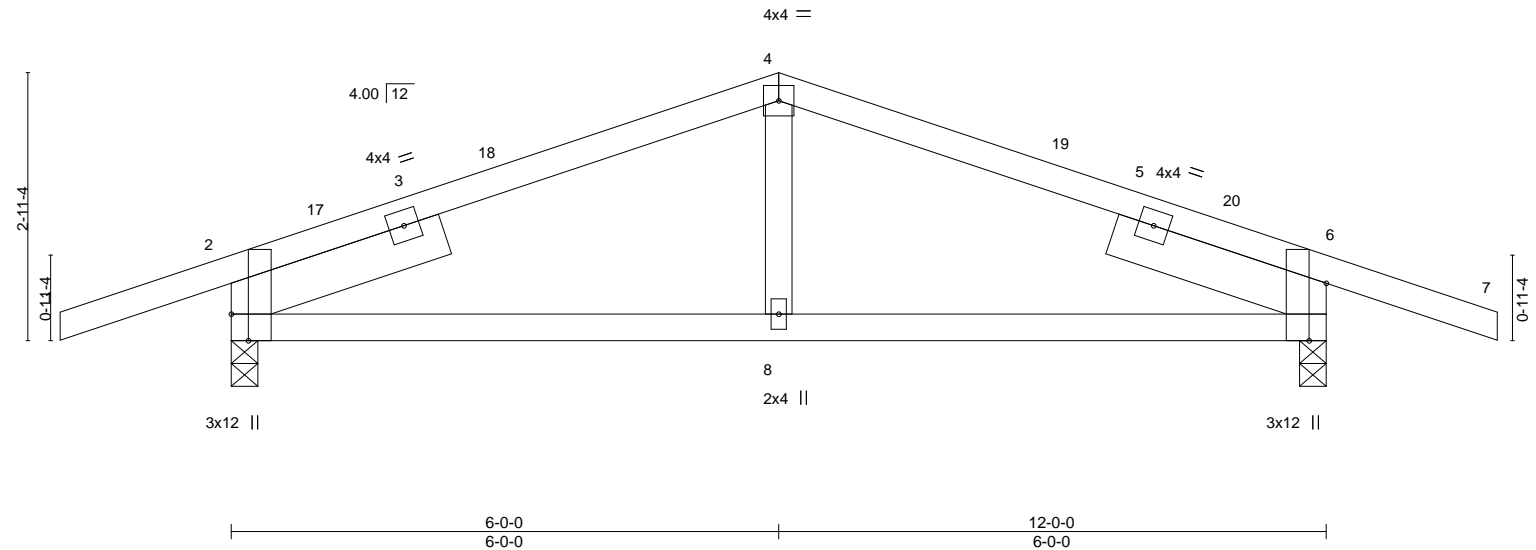


Plate Offsets (X, Y)--		[2:0-3-8,Edge], [6:0-7-9,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25
TCDL 10.0	Lumber DOL	1.15	BC 0.26
BCLL 0.0	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.03 8-11 >999 240
			Vert(CT) -0.05 8-11 >999 180
			Horz(CT) 0.02 6 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 44 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-46(LC 17)
 Max Uplift 2=-183(LC 8), 6=-183(LC 9)
 Max Grav 2=671(LC 1), 6=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-668/290, 4-6=-668/290
 BOT CHORD 2-8=-161/615, 6-8=-161/615

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-10-8 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 2 and 183 lb uplift at joint 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.
 - 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.



February 15, 2021

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

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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	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	B3	COMMON GIRDER			2	I44815391
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		Mon Feb 15 12:50:16 2021 Page 1
				ID: X_h1Y?HVzNtCEdCgmVZDKBz3guD-6JzwYTrsLMZJyZXt6bqEFkE1A9vKDd76B3UK7LzkuCL		
3-1-12		6-0-0		9-0-0		12-3-8
3-1-12		2-10-4		3-0-0		3-3-8
		4x4 =				

Scale = 1:25.4

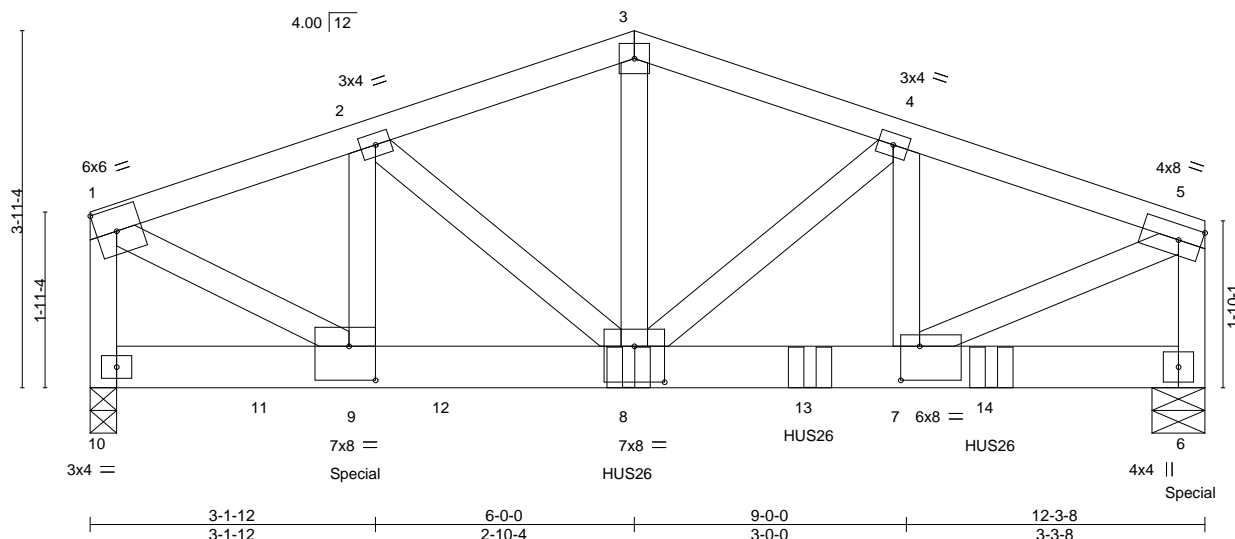


Plate Offsets (X,Y)-- [7:0-2-8,0-4-8], [8:0-4-0,0-4-12], [9:0-3-8,0-4-8]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.07	7-8	>999	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							Weight: 127 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-7-0, 10=0-3-8
 Max Horz 10=37(LC 6)
 Max Uplift 6=1063(LC 5), 10=818(LC 4)
 Max Grav 6=5511(LC 1), 10=4288(LC 1)

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

TOP CHORD 1-2=-4481/854, 2-3=-4476/878, 3-4=-4476/875, 4-5=-4741/905, 1-10=-3819/741, 5-6=-3680/718
 BOT CHORD 8-9=-781/4211, 7-8=-857/4456
 WEBS 3-8=-480/2564, 4-8=-353/103, 1-9=-881/4662, 5-7=-897/4758

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 6, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1063 lb uplift at joint 6 and 818 lb uplift at joint 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-11-4 from the left end to 9-11-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1452 lb down and 289 lb up at 1-11-4, and 1452 lb down and 289 lb up at 3-11-4, and 1460 lb down and 296 lb up at 12-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Special hanger(s) or other connection device(s) shall be provided at 2-11-4 from the left end sufficient to connect truss(es) to front face of bottom chord. The design/selection of such special connection device(s) is the responsibility of others.



February 15, 2021

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO I44815391 Job Reference (optional)
JOBS	B3	COMMON GIRDER	8.240 s	2	9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:16 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmVZ0kBz3guD-6JzwYTrsLMZJyZXt6bqEFkE1A9vKDd76B3UK7LzkuCL
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

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, 6-10=-20
- Concentrated Loads (lb)
 - Vert: 6=-1460(F) 8=-1452(F) 11=-1452(F) 12=-1452(F) 13=-1452(F) 14=-1452(F)

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

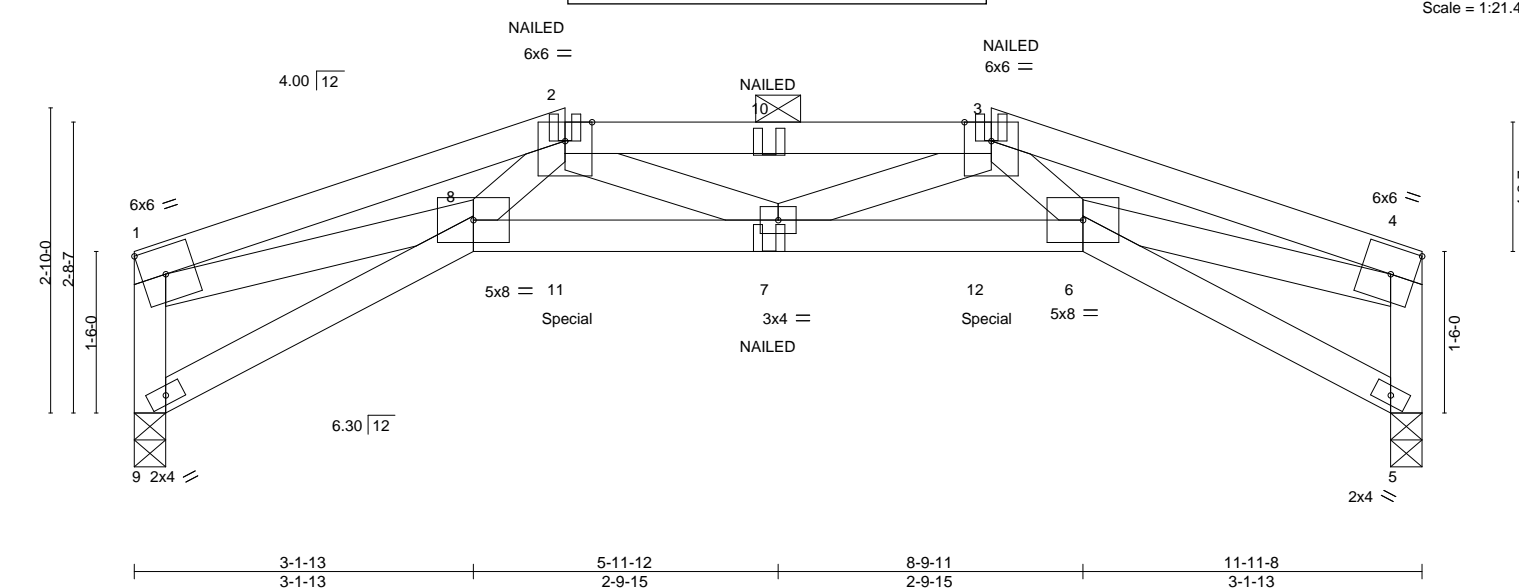
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	C1	Hip Girder			1	I44815392
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) ID: X_h1Y?HVZntCEdCgmVZOkBz3guD-aVXIpsU6ghAaj63glLTnxn6IZCky4hGQjDtfnzkuCK		



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	0.15	6-7	>950	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.23	6-7	>596	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.23	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 46 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 3-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-15 max.): 2-3.
BOT CHORD	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 6-0-4 oc bracing.
WEBS	2x4 SPF No.2			

REACTIONS. (size) 9=0-3-8, 5=0-3-8
 Max Horz 9=34(LC 7)
 Max Uplift 9=284(LC 4), 5=282(LC 5)
 Max Grav 9=777(LC 1), 5=775(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-756/288, 1-2=-2784/1082, 2-3=-2566/1047, 3-4=-2774/1101, 4-5=-753/303
 BOT CHORD 7-8=-885/2279, 6-7=-912/2274
 WEBS 1-8=-983/2557, 2-8=-195/506, 2-7=-164/395, 3-7=-167/401, 3-6=-192/501, 4-6=-1009/2548

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bearing at joint(s) 9, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 9 and 282 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 195 lb down and 156 lb up at 4-0-0, and 195 lb down and 156 lb up at 7-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-70, 8-9=-20, 6-8=-20, 5-6=-20



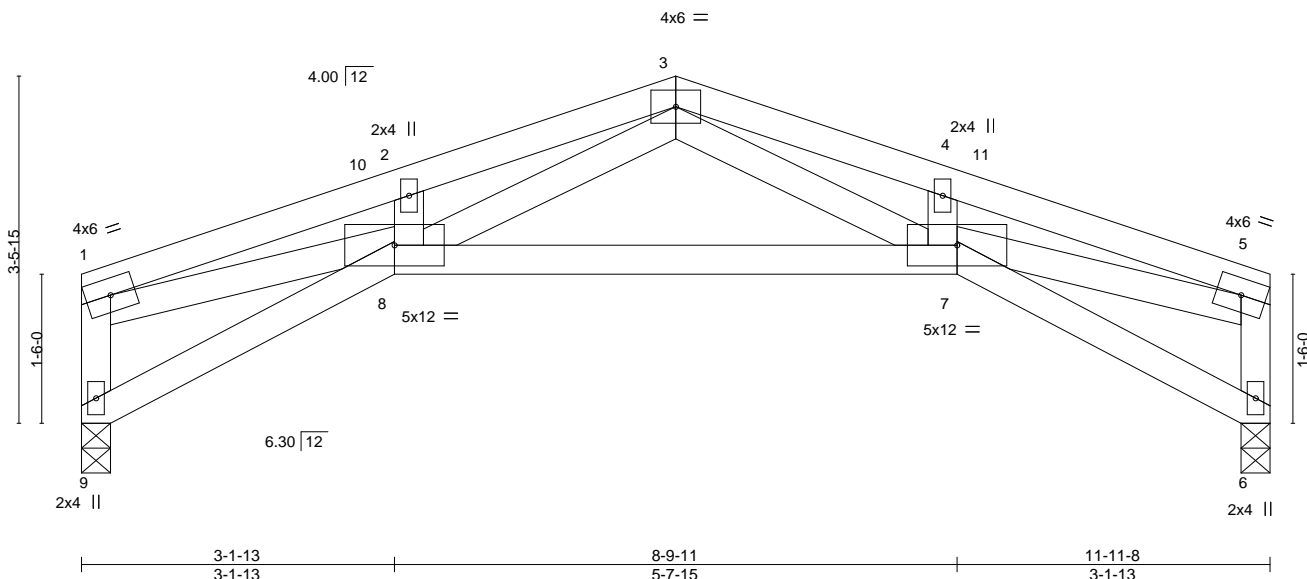
February 15, 2021

Continued on page 2

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021</div>		SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	C1	Hip Girder	8.240 s Mar 9 2020	MiTek Industries, Inc.	I44815392
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	Job Reference (optional)		
LOAD CASE(S) Standard		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:17 2021 Page 2			
Concentrated Loads (lb)		ID:X_h1Y?HVzNtCEdCgmVZOkBz3guD-aVXIpsU6ghAaj63glLTnxn6lZCky4hGQjDtfnzkuCK			
Vert: 2=-26(F) 3=-26(F) 7=-35(F) 10=-26(F) 11=-195(F) 12=-195(F)					

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	C2	Roof Special			1	I44815393
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:18 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-2i5gz9t6tzp1BthGE?siK9JN7zg3hblPfNzRBEzkuCJ		
3-1-13		5-11-12		8-9-11		11-11-8
3-1-13		2-9-15		2-9-15		3-1-13
03/04/2021						

Scale = 1:23.2



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 0.20	Vert(LL)	-0.08	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.18	7-8	>796	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.13	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 47 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 9=0-3-8, 6=0-3-8
 Max Horz 9=25(LC 9)
 Max Uplift 9=98(LC 8), 6=98(LC 9)
 Max Grav 9=525(LC 1), 6=525(LC 1)

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

TOP CHORD 1-9=-523/240, 1-2=-1614/728, 2-3=-1604/808, 3-4=-1604/710, 4-5=-1614/647,
 5-6=-523/238
 BOT CHORD 7-8=-409/898
 WEBS 3-7=-274/716, 5-7=-556/1419, 3-8=-374/716, 1-8=-606/1419

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-9, Interior(1) 3-3-9 to 5-11-12, Exterior(2R) 5-11-12 to 8-11-12, Interior(1) 8-11-12 to 11-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 9 and 98 lb uplift at joint 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.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	C4	Flat Girder			2	I44815394
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-Wuf3AVukeHxup1GSojOxtMsMgNweQ_EYt1i_jgzkuCl 7-10-8 3-9-8 11-11-8 4-1-0			

Scale = 1:20.1

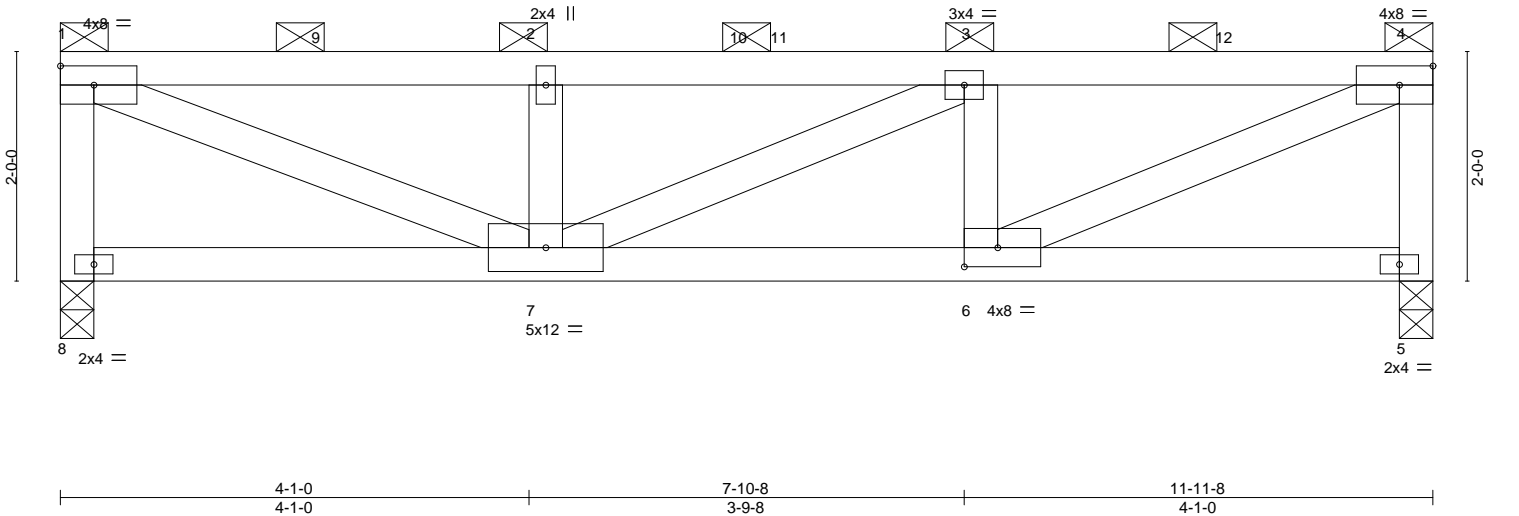


Plate Offsets (X,Y)--		[6:0-3-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.08	in (loc)	6-7	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.14	6-7	>999	180	
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	5	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
										Weight: 94 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (2-10-13 max.): 1-4, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	8=0-3-8, 5=0-3-8
Max Horz	8=65(LC 5)
Max Uplift	8=619(LC 4), 5=549(LC 5)
Max Grav	8=3332(LC 1), 5=2745(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-8=-3253/626, 1-2=-4884/921, 2-3=-4884/921, 3-4=-4822/946, 4-5=-2669/554
BOT CHORD	6-7=-962/4822
WEBS	1-7=-964/5087, 2-7=-1953/400, 3-6=-2046/452, 4-6=-996/5077

- NOTES-**
- 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 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 619 lb uplift at joint 8 and 549 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 832 lb down and 166 lb up at 0-1-12, 805 lb down and 169 lb up at 2-4-4, 805 lb down and 169 lb up at 4-4-4, 860 lb down and 176 lb up at 6-4-4, and 863 lb down and 211 lb up at 8-2-12, and 863 lb down and 209 lb up at 10-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	C4	Flat Girder	2 <small>ID:X_h1Y?HVzNtCEdCgmVZOkBz3guD-Wuf3AVukeHxup1GSojOxtMsMgNweQ_EYt1i_jgzkuCl</small>		I44815394
Builders FirstSource (Valley Center), Valley Center, KS - 67147, LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-70, 5-8=-20 Concentrated Loads (lb) Vert: 1=-832 2=-805 3=-863 9=-805 11=-860 12=-863			<small>8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:19 2021 Page 2</small> <small>Job Reference (optional)</small>		

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-?4DR0quNPb3kRBqeLQvAPaPZ2mJ89Wxi6hSYG6zkuCH 03/04/2021		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815395
JOBS	CJ1	Diagonal Hip Girder			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:20 2021 Page 1 4-6-7			
-2-7-13 2-7-13		3-9-14 3-9-14		8-4-5 4-6-7			

Scale = 1:21.0

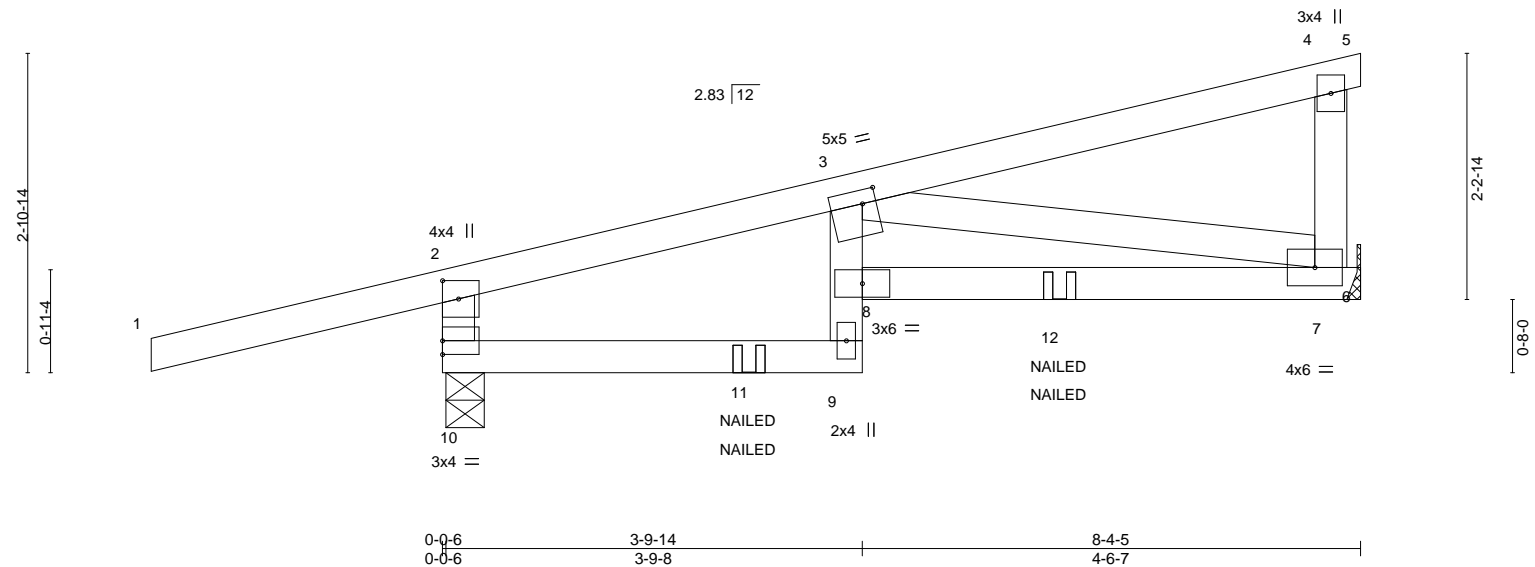


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-1-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.06 8 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.10 7-8 >920	180	
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.02 7 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 31 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 10=0-4-3, 7=Mechanical
	Max Horz 10=109(LC 5)
	Max Uplift 10=-271(LC 4), 7=-137(LC 8)
	Max Grav 10=631(LC 1), 7=403(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-10=-546/254, 2-3=-401/152
BOT CHORD	9-10=-158/329, 7-8=-347/861
WEBS	3-7=-776/340

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 10 and 137 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 guidelines.
 - 7) 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, 2-4=-70, 4-5=-20, 9-10=-20, 6-8=-20
Concentrated Loads (lb)	
Vert:	11=-23(F=-6, B=-17) 12=-89(F=-49, B=-40)



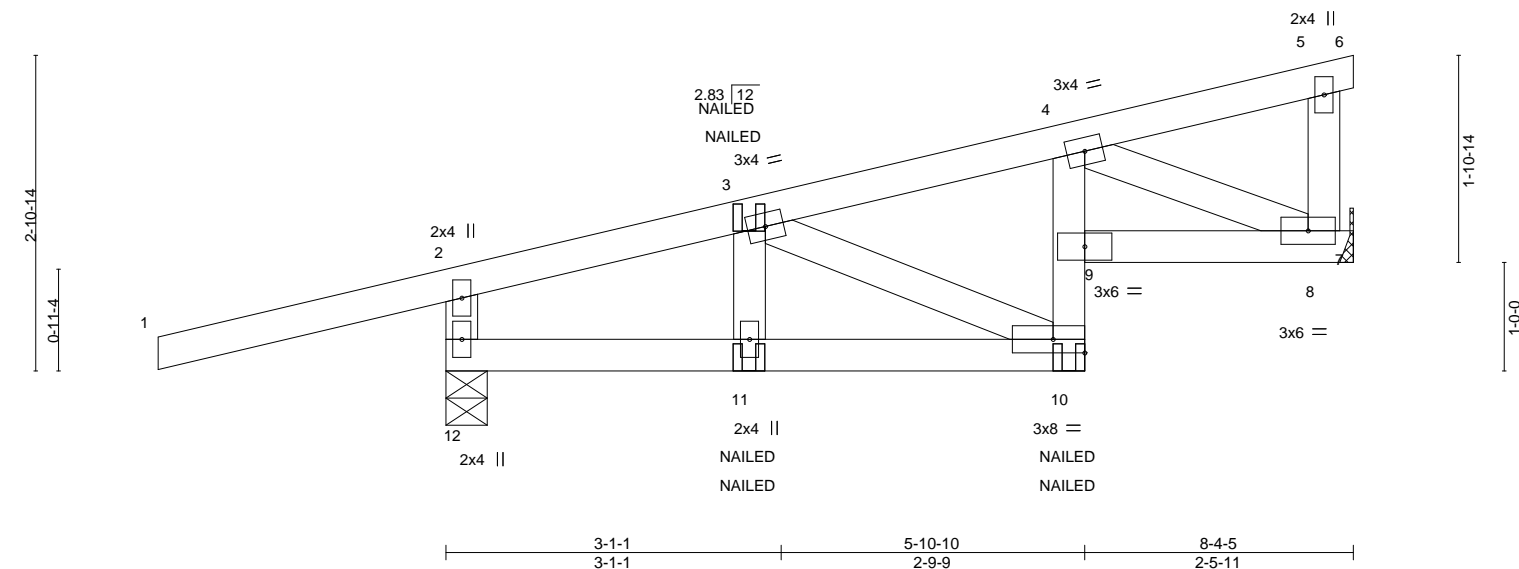
February 15, 2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	Girder	Ply	1	SUMMIT/WOODSIDE RIDGE #140/MO		
JOBS	CJ2	Diagonal Hip				I44815396		
						Job Reference (optional)		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:24 2021 Page 1		
						ID:X_h1Y?HVzNtCEdCgmVZ0kBz3guD-trSyDCxtSpZAvo8QaGz6aQZJnOhb5NsH1JQIPuzkuCD		
-2-7-13			3-1-1			5-10-10		
2-7-13			3-1-1			2-9-9		
			03/04/2021			8-4-5		
						2-5-11		

Scale = 1:21.2



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 0.63	Vert(LL)	-0.09 10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.18 10-11	>537	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.09	Horz(CT)	-0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 9-10.

REACTIONS.

(size) 8=Mechanical, 12=0-4-9
 Max Horz 12=89(LC 5)
 Max Uplift 8=83(LC 8), 12=208(LC 4)
 Max Grav 8=324(LC 21), 12=582(LC 1)

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

TOP CHORD 3-4=-336/66
 BOT CHORD 8-9=-116/493
 WEBS 4-8=-507/135, 2-12=-475/228, 3-10=0/381

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 8 and 208 lb uplift at joint 12.
- 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 guidelines.
- 7) 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: 1-5=-70, 5-6=-20, 10-12=-20, 7-9=-20
 Concentrated Loads (lb)
 Vert: 10=19(F=10, B=10)



February 15, 2021

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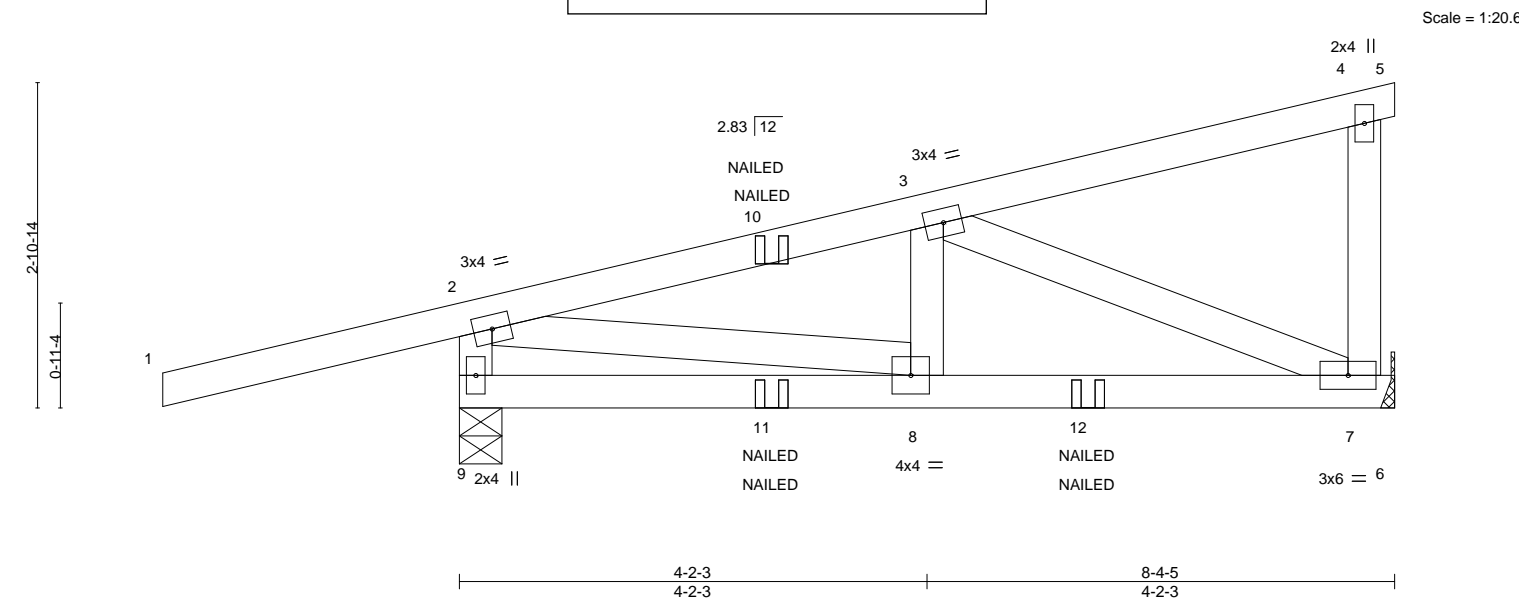
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: X_h1Y?HVzNtCedCgmVZDk8z3guD-trSyDCxtSpZAvo8QaGz6aQZJnOI15MAH1JQIPuzkuCD 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	CJ3	Diagonal Hip Girder			I44815397
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:24 2021 Page 1 8-4-5 4-2-3		



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 0.63	Vert(LL)	-0.01 7-8	>999	240	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.02 8-9	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.13	Horz(CT)	0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 36 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-4-9, 7=Mechanical
Max Horz 9=120(LC 7)
Max Uplift 9=210(LC 4), 7=81(LC 8)
Max Grav 9=582(LC 1), 7=324(LC 21)

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

TOP CHORD 2-9=-546/223, 2-3=-445/79
BOT CHORD 7-8=-76/387
WEBS 2-8=-30/421, 3-7=-419/110

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 9 and 81 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 guidelines.
- 7) 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, 2-4=-70, 4-5=-20, 6-9=-20
Concentrated Loads (lb)
Vert: 12=19(F=10, B=10)



February 15, 2021

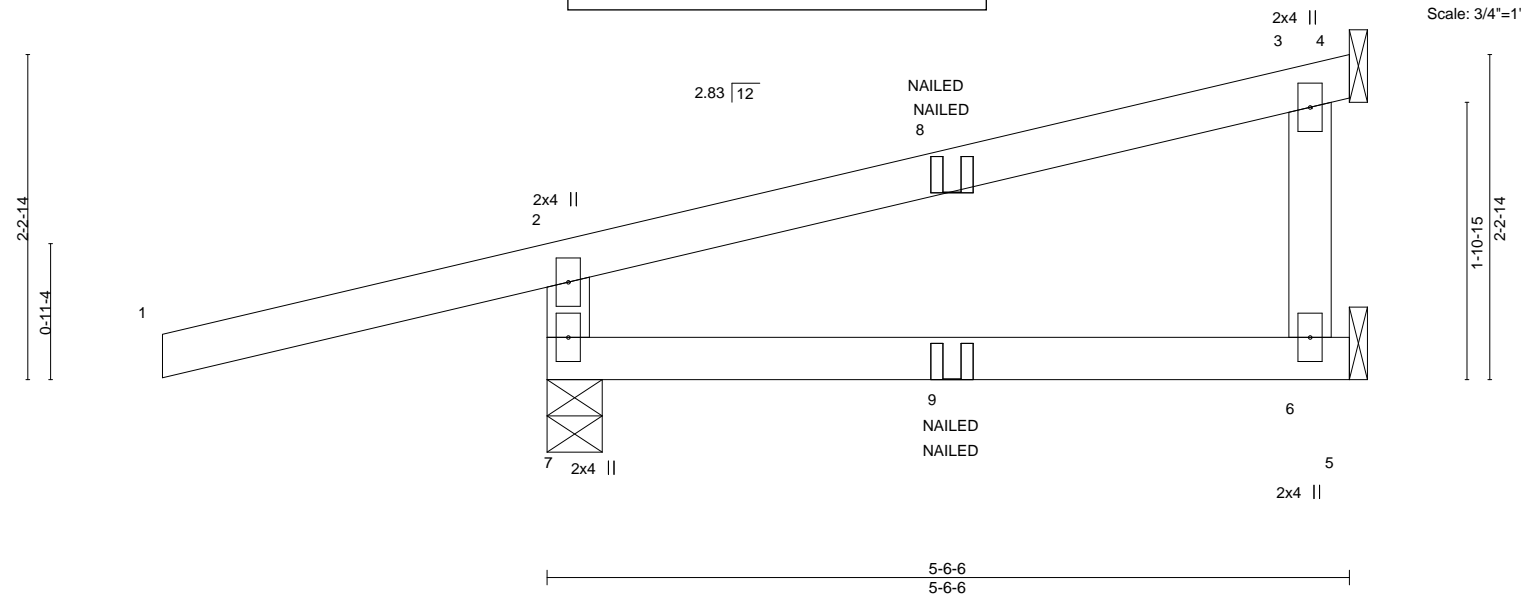
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815398
JOB	CJ4	Diagonal Hip	Girder		1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:25 2021 Page 1		ID: X_h1Y?HVzNtCedCgmVZ0kBz3guD-L20KRYyVD7h1Xyjc8_UL6d6UXn4nqrARGz9JxKzkuCC	
-2-7-13		2-7-13		2-9-3		5-6-6	
				2-9-3		2-9-3	



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 0.63	Vert(LL)	-0.04	6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.08	6-7	>753	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2			

REACTIONS. (size) 7=0-4-9, 4=Mechanical, 6=Mechanical
 Max Horz 7=-10(LC 6), 4=81(LC 4)
 Max Uplift 7=-218(LC 4), 6=-25(LC 8)
 Max Grav 7=479(LC 1), 6=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-428/240

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 7 and 25 lb uplift at joint 6.
- 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 guidelines.
- 7) 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, 2-4=-70, 5-7=-20



February 15, 2021

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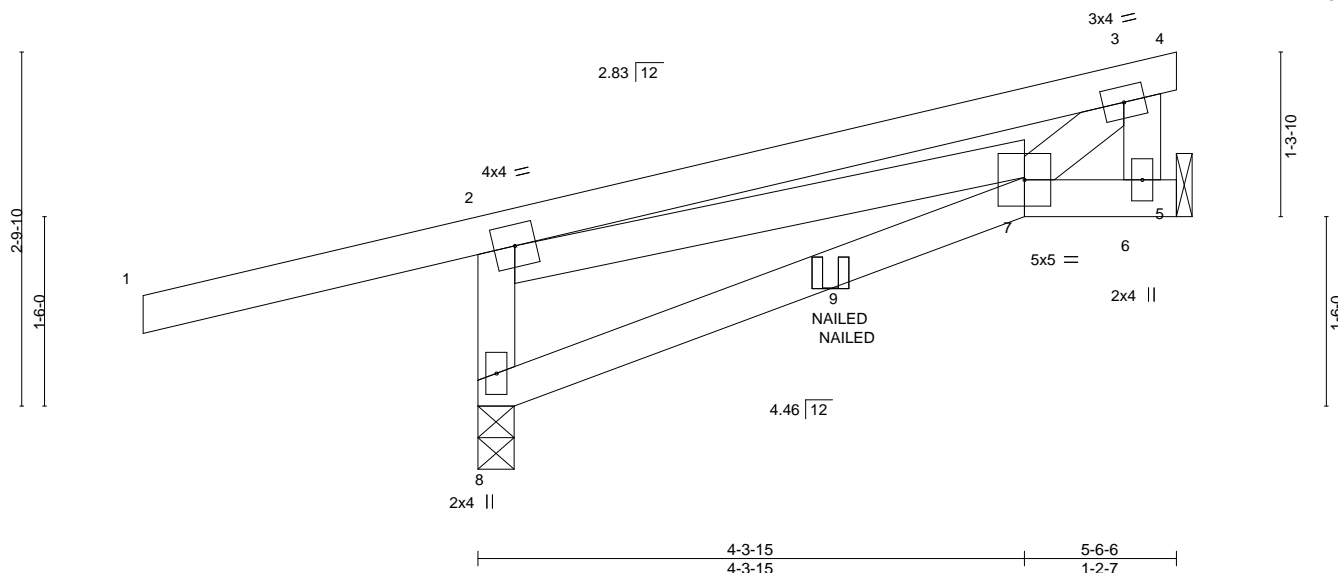
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	CJ5	Diagonal Hip	Girder		1	I44815399
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) ID: X_h1Y?HVZNIEdCgrnvZOkBz3guD-pEaieuz7_Rqu96loih0afrefHBRcZIBaUdvsTmzkuCB 03/04/2021		
-2-7-13		2-7-13		4-3-15		5-6-6
				4-3-15		1-2-7

Scale = 1:18.2



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 0.63	Vert(LL)	0.04	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.04	7-8	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-7, 6=Mechanical
 Max Horz 8=89(LC 5)
 Max Uplift 8=-237(LC 4), 6=-105(LC 8)
 Max Grav 8=479(LC 1), 6=188(LC 1)

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

TOP CHORD 2-8=-437/238

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 8 and 105 lb uplift at joint 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 guidelines.
- 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

- 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, 7-8=-20, 5-7=-20



February 15, 2021

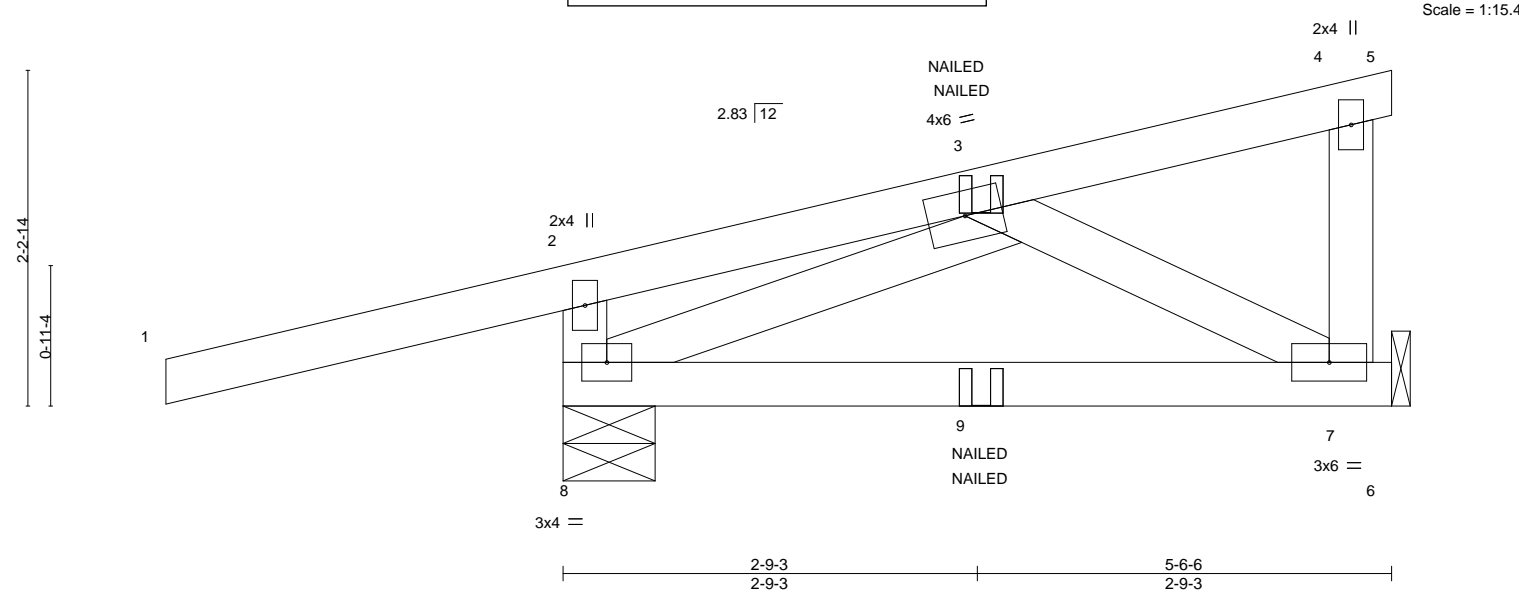
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>	Ply	SUMMIT/WOODSIDE RIDGE #140/MO 144815400 Job Reference (optional) ID: X_h1Y?HVzNtCedCgmVZDKBz3guD-HQ84sE_mkyImGt_GOXpB2Bq1bm9lIBkjHeP?CzkuCA 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:27 2021 Page 1
JOBS	CJ6	Diagonal Hip Girder			
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			
-2-7-13		-2-7-13		5-6-6	
				2-9-3	



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 0.63	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.08	7-8	>753	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 8=0-7-6
Max Horz 8=85(LC 7)
Max Uplift 7=53(LC 8), 8=201(LC 4)
Max Grav 7=195(LC 1), 8=486(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-398/242

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 201 lb uplift at joint 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-5=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-13(F)



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Technical drawing of a roof truss system. The drawing includes the following elements:

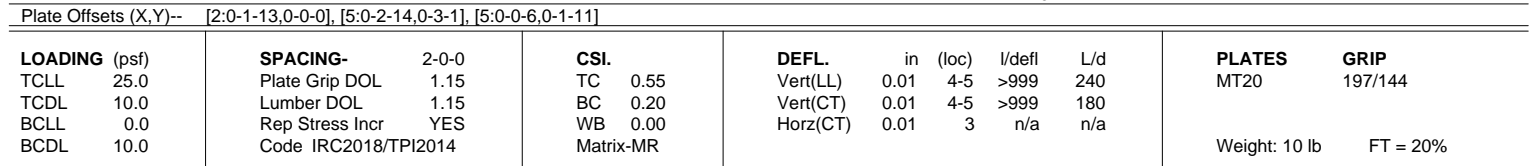
- Labels:** 1, 2, 3, 4, 5, 6, 2.83, 12, 3x4, 3x6, 2-8-7, 1-6-14, 1-2-15, Scale = 1:10.7.
- Dimensions:**
 - 1-6-14 (vertical dimension on the left)
 - 0-11-4 (vertical dimension on the left)
 - 2.83 (horizontal dimension)
 - 12 (horizontal dimension)
 - 3x4 (horizontal dimension)
 - 3x6 (horizontal dimension)
 - 2-8-7 (horizontal dimension at the bottom)
 - 1-6-14 (vertical dimension on the right)
 - 1-2-15 (vertical dimension on the right)
- Structural Elements:**
 - Roof truss system with a central vertical support.
 - Roof sections labeled 1, 2, 3, 4, and 5.
 - Supports labeled 6 and 12.
 - Structural members labeled 3x4 and 3x6.
 - Dimensions 2-8-7 and 1-6-14 are shown at the bottom.

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-393/435

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-7-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 5, 22 lb uplift at joint 3 and 3 lb uplift at joint 4.
- 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.





REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical
 Max Horz 5=54(LC 8)
 Max Uplift 5=-204(LC 8), 3=-14(LC 12), 4=-15(LC 1)
 Max Grav 5=418(LC 1), 3=17(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=353/401

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-7-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 204 lb uplift at joint 5, 14 lb uplift at joint 3 and 15 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.



February 15, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	CJ9	Diagonal Hip	Girder		1	I44815403
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:29 2021 Page 1 ID: gEKkeJ3K1?su6kS1RPQ3TnyVP2F-EpGrHv?0HMCT0Z0NNpZHTGAVPIQmfw1Bb7W45zkuC8 6304/2021		
-2-7-13		2-7-13		5-6-6		
				2-9-3		

Scale: 3/4"=1'

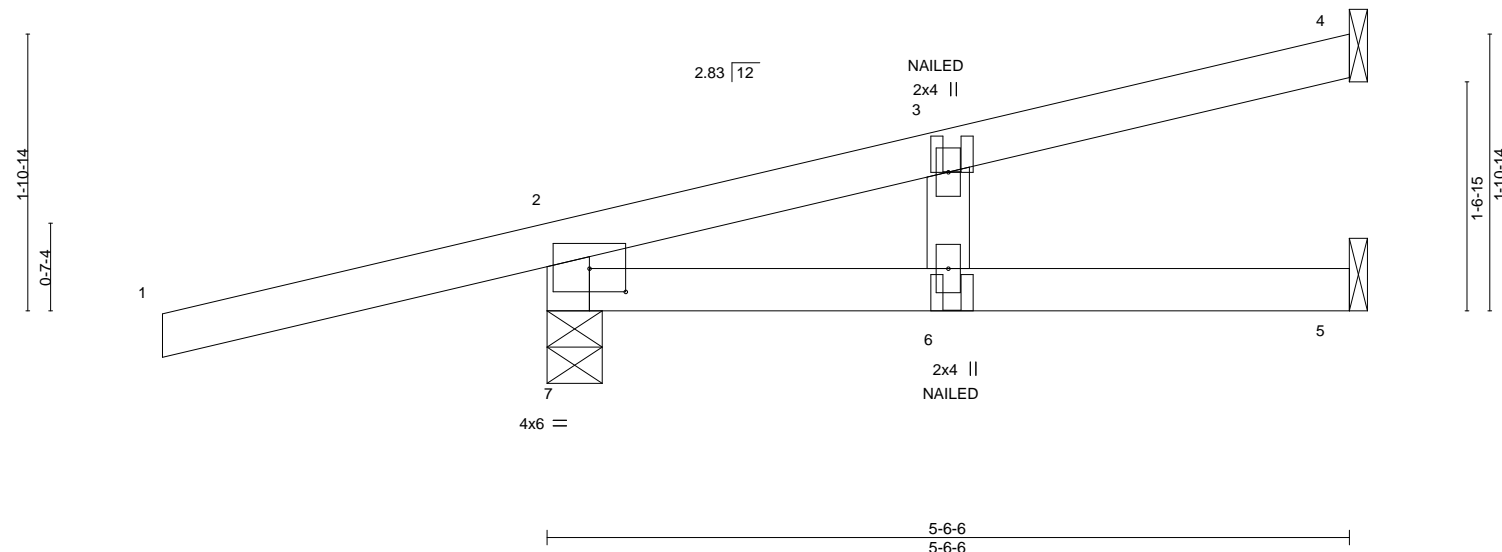


Plate Offsets (X,Y)--		[2:0-1-12,0-0-7], [7:0-3-0,0-1-15], [7:0-0-0,0-1-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.14	6	>469
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.24	6	>265
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP					
								PLATES	GRIP
								MT20	197/144
								Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-11-4 oc bracing.

REACTIONS.

(size) 7=0-4-9, 4=Mechanical, 5=Mechanical
 Max Horz 7=-5(LC 6), 4=84(LC 4)
 Max Uplift 7=-220(LC 4), 5=-25(LC 8)
 Max Grav 7=483(LC 1), 5=184(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-294/212
 WEBS 3-6=-274/97

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 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 220 lb uplift at joint 7 and 25 lb uplift at joint 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.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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, 2-4=-70, 5-7=-20
- Concentrated Loads (lb)
- Vert: 6=8(F)



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		Ply	1	SUMMIT/WOODSIDE RIDGE #140/MO	I44815404
JOBS	CJ10	Roof Special	Girder				Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:21 2021 Page 1		
		-2-7-13 2-7-13		ID: gEKkeJ3K1?su6kS1RPQ3T		NyVP2F-THnpbAv?AuBb2LPv8QPynxpdAmmu1yrLLB5oZzkuCG		
				2-9-3 2-9-3		5-6-6 2-9-3		

Scale = 1:15.4

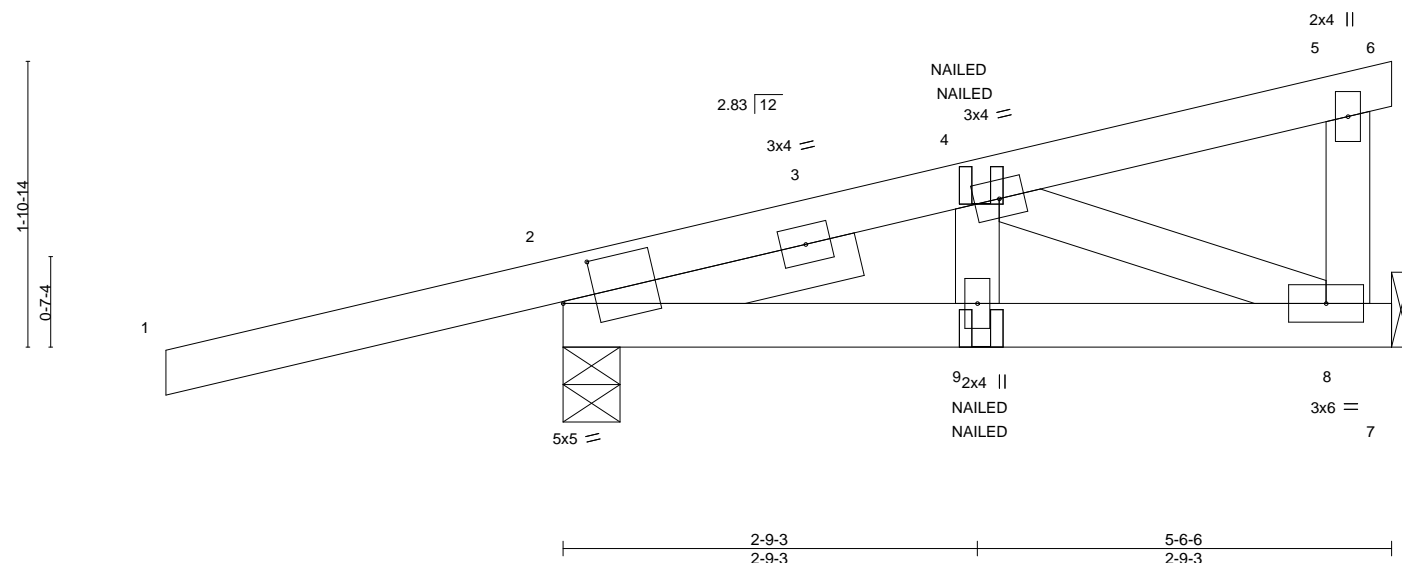


Plate Offsets (X,Y)--		[2:0-2-10,0-2-13]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00 9	>999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01 8-9	>999	180	
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00 8	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 23 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 8=Mechanical
 Max Horz 2=87(LC 25)
 Max Uplift 2=184(LC 4), 8=52(LC 8)
 Max Grav 2=461(LC 1), 8=193(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 52 lb uplift at joint 8.
- 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 guidelines.
- 7) 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: 1-5=-70, 5-6=-20, 7-10=-20
 Concentrated Loads (lb)
 Vert: 9=15(F=8, B=8)



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	144815405
JOBS	CJ11	Diagonal Hip Girder	8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:22 2021 Page 1		1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID: X_h1Y?HVzNtCEdCgmvZCkBg3guD-xTKBpWwdxCJSgU_1TrxeU?U3ua2BdUj?a?xeK?zkuCF			
-1-2-14 1-2-14		3-2-2 3-2-2		03/04/2021		5-6-6 2-4-4	

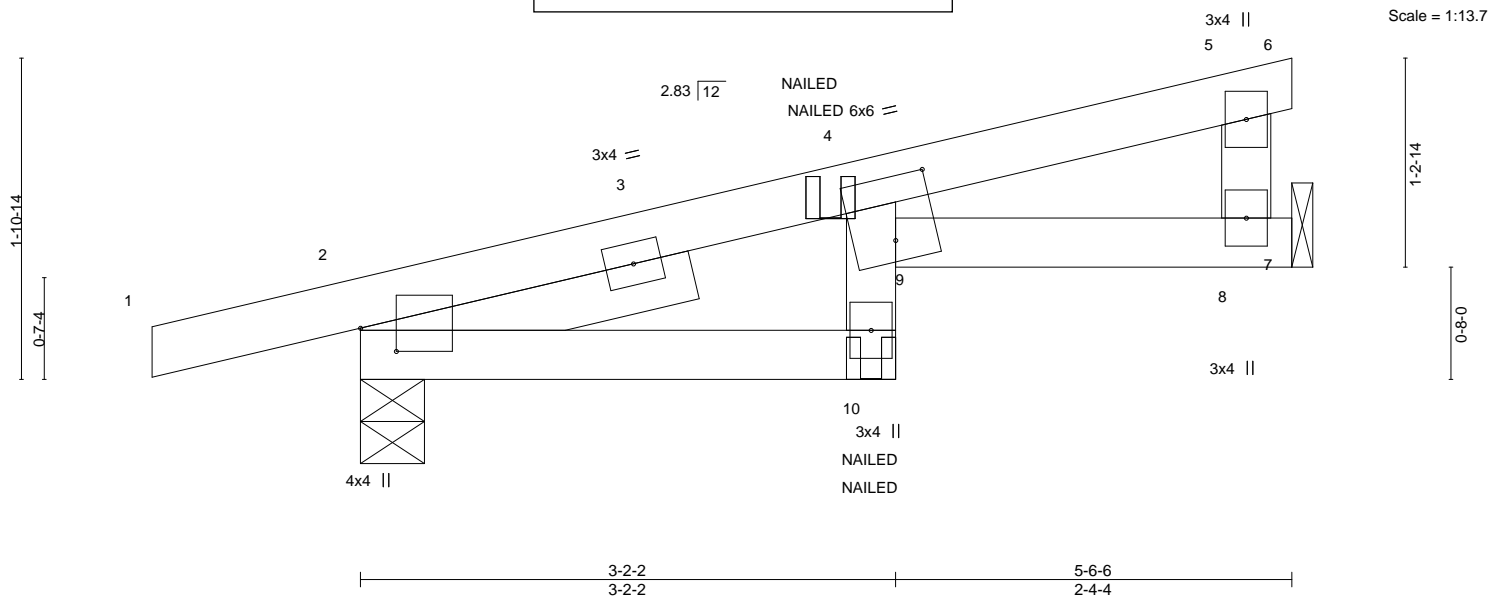


Plate Offsets (X,Y)--		[2:0-1-10,0-2-9], [4:0-1-13,0-0-0], [4:0-3-0,0-4-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.21	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(LL) -0.02 9 >999 240
BCLL 0.0	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.03 9 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	Horz(CT) 0.01 8 n/a n/a
		Weight: 18 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-4-9
Max Horz 2=54(LC 22)
Max Uplift 8=74(LC 8), 2=116(LC 4)
Max Grav 8=248(LC 1), 2=341(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-322/94
BOT CHORD 2-10=-102/314

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 8 and 116 lb uplift at joint 2.
 - 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 guidelines.
 - 7) 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: 1-5=-70, 5-6=-20, 10-11=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-17(F=-9, B=-9)



February 15, 2021

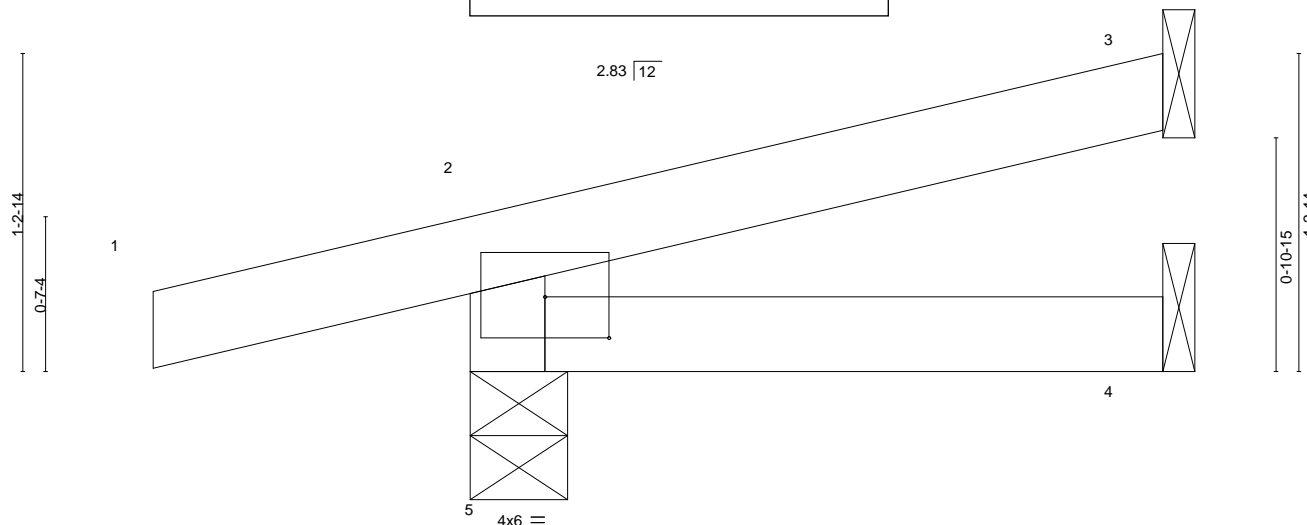
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815406
JOBS	CJ12	Jack-Open	ID: gEKkeJ3K1?su6kS1RPQ3TNyVP2F-PfuZ0sxFhWRJleZD1ZS1C1G1_THMxz8ofgCsRzkuCE		1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:23 2021 Page 1			
		-1-2-14 1-2-14		03/04/2021			
				2-8-7 2-8-7			



Scale = 1:9.0

										2-8-7			
										2-8-7			
Plate Offsets (X,Y)-- [2:0-1-12,0-0-7], [5:0-3-0,0-1-15], [5:0-0-0,0-1-12]													
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	0.12	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15		BC	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			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MR							Weight: 8 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=36(LC 8)
Max Uplift 5=93(LC 8), 3=30(LC 12)
Max Grav 5=236(LC 1), 3=65(LC 1), 4=44(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 5 and 30 lb uplift at joint 3.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	D1	Roof Special			1	144815407
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) ID: X_h1Y?HVzNtEdCgmVZOkBz3guD-i?pDUF0e2fKKdjbZxX4WphpNB0j8V2nAPFt3cXzkuC7		
-1-10-8 1-10-8		4-0-0 4-0-0		8-1-0 4-1-0		10-6-8 2-5-8
						18-0-0 7-5-8

Scale = 1:34.0

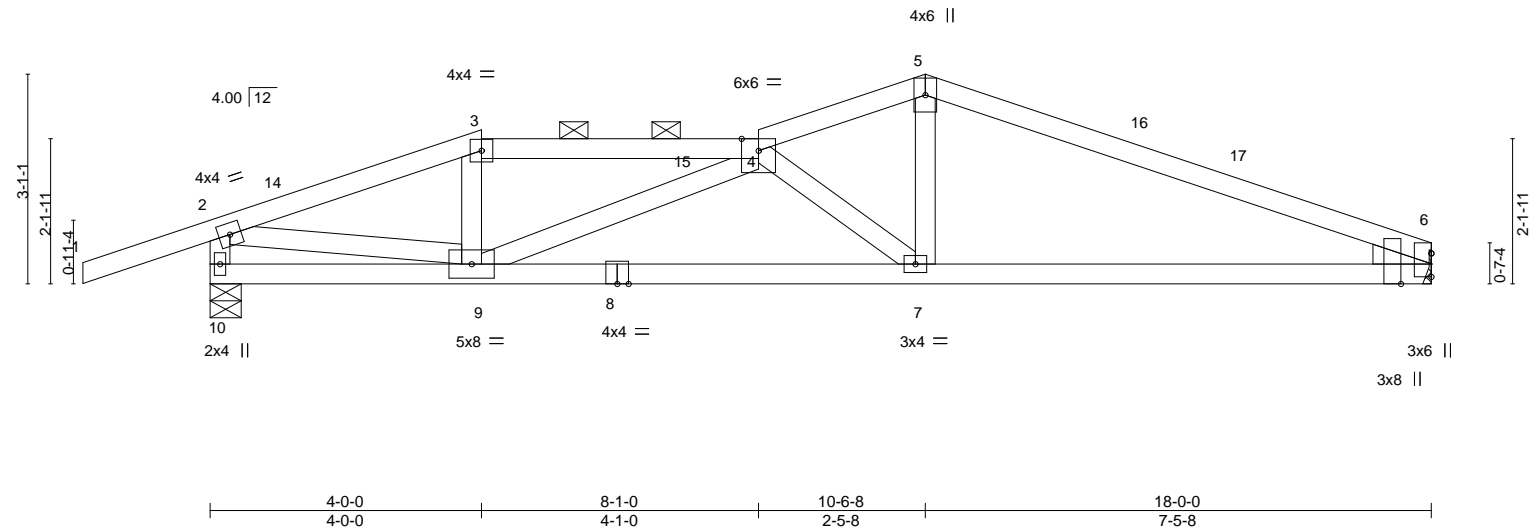


Plate Offsets (X,Y)-- [6:0-5-6,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.08	7-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.15	7-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 63 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (4-10-3 max.): 3-4.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEDGE			
Right: 2x4 SPF No.2			

REACTIONS.		(size)	10=0-5-8, 6=Mechanical
	Max Horz	10=56(LC 16)	
	Max Uplift	10=249(LC 8), 6=133(LC 9)	
	Max Grav	10=953(LC 1), 6=795(LC 1)	

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1376/374, 3-4=-1272/381, 4-5=-1414/433, 5-6=-1466/406	
BOT CHORD	7-9=-487/1815, 6-7=-316/1321	
WEBS	4-9=-601/224, 2-10=-921/363, 2-9=-302/1287, 5-7=-94/546, 4-7=-658/224	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 10-6-8, Exterior(2R) 10-6-8 to 13-6-8, Interior(1) 13-6-8 to 18-0-0 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
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 10 and 133 lb uplift at joint 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: X_h1Y?HVzNtCdCgmVZOKBz3guD-ACNb1GpzSBfAmUEblMuMYWC10ETaJevcd9_zkuC6
 03/04/2021

Job	Truss	Truss Type	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	D2	Roof Special Girder	1	I44815408

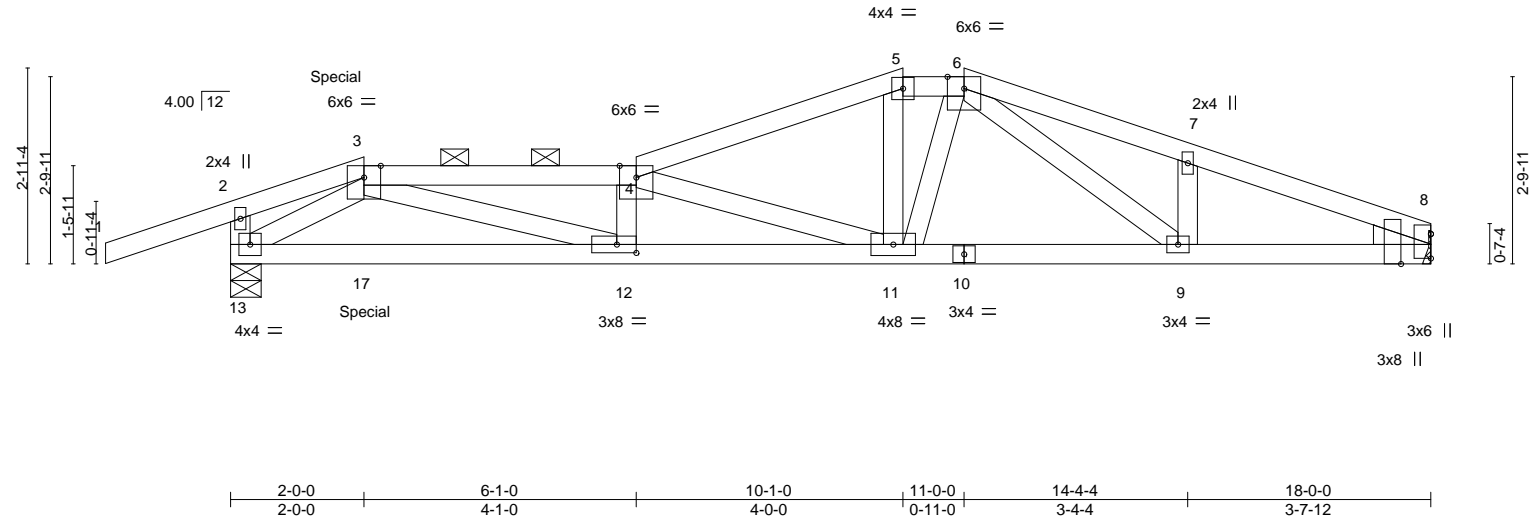
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:31 2021 Page 1

Job Reference (optional)

-1-10-8 2-0-0 6-1-0 10-1-0 11-0-0 14-4-4 18-0-0

1-10-8 2-0-0 4-1-0 4-0-0 0-11-0 3-4-4 3-7-12

Scale = 1:34.6



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 0.47	Vert(LL)	-0.11 11-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.20 12	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except 2-0-0 oc purlins (3-4-15 max.): 3-4, 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-9-14 oc bracing: 11-12.
WEBS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS. (size) 8=Mechanical, 13=0-5-8
 Max Horz 13=52(LC 12)
 Max Uplift 8=141(LC 5), 13=240(LC 4)
 Max Grav 8=789(LC 1), 13=901(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-2411/445, 4-5=-1512/270, 5-6=-1379/277, 6-7=-1569/324, 7-8=-1598/282
 BOT CHORD 12-13=-163/871, 11-12=-451/2458, 9-11=-193/1302, 8-9=-232/1473
 WEBS 3-12=-305/1666, 4-12=-414/150, 4-11=-1117/250, 5-11=-33/269, 6-11=-66/299, 2-13=-262/173, 3-13=-1047/139, 6-9=-115/301

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 8 and 240 lb uplift at joint 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 205 lb up at 2-0-0 on top chord, and 17 lb down and 37 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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, 4-5=-70, 5-6=-70, 6-8=-70, 13-14=-20

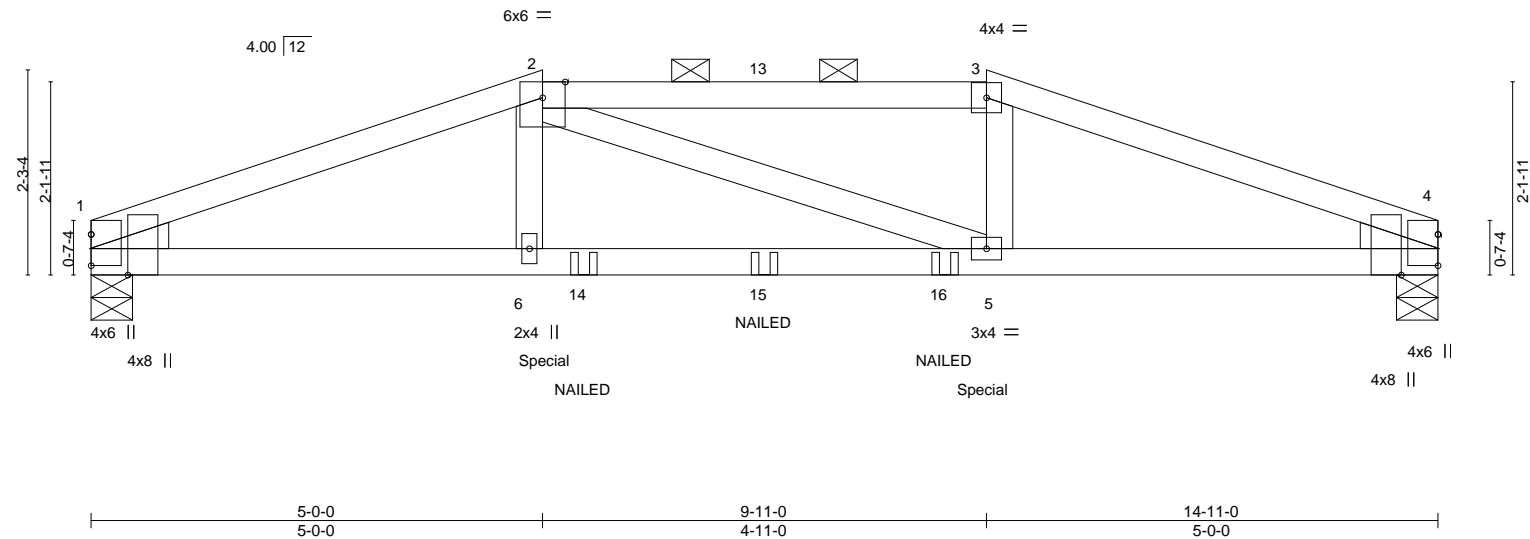


February 15, 2021

Continued on page 2

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:X_h1Y?HVzNtCEdCgmvZOKBz3guD-ACNb1GpzSBfAmUEblMuMYWC10ETaJevcd9_zkuC6 03/04/2021		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	D2	Roof Special Girder			1	I44815408
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:31 2021 Page 2 ID:			
LOAD CASE(S) Standard						
Concentrated Loads (lb)						
Vert: 3=58(F)						

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	D3	Hip Girder			1	I44815409
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-eOxvz2uaHa211ly2y6_u6uhycMfz?zTtZMAhQzkuC5 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:32 2021 Page 1			



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.07 5-6 >999 240		
BCLL 0.0	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.16 5-6 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (3-11-8 max.): 2-3.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS.	(size) 1=0-5-8, 4=0-5-8
	Max Horz 1=-28(LC 13)
	Max Uplift 1=-199(LC 4), 4=-199(LC 5)
	Max Grav 1=833(LC 1), 4=833(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1754/431, 2-3=-1605/428, 3-4=-1754/430
BOT CHORD	1-6=-384/1622, 5-6=-383/1604, 4-5=-363/1622
WEBS	2-6=-20/322, 3-5=-36/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 1 and 199 lb uplift at joint 4.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 81 lb up at 5-0-0, and 164 lb down and 81 lb up at 9-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-70, 7-10=-20



February 15, 2021

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021</div>			Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	D3	Hip Girder				1	I44815409
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)				
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=-164(F) 5=-164(F) 14=2(F) 15=2(F) 16=2(F)			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:32 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmVZOkBz3guD-eOxzvx2uaHa2t1ly2y6_u6uhycMfz?zTiZMAhQzkuC5				

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: gEKkeJ3K1?su6kS1RPO3TNyVP2F-6aVL6H2WLaiuVBK8cfeDRJrtJ0jkiMCc6D5kDszkuC4
 03/04/2021

Job	Truss	Truss Type	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	E1	Half Hip Girder	1	I44815410
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)	

1-10-8
1-10-8

2-0-0
2-0-0

6-0-9
4-0-9

9-11-7
3-10-13

14-0-0
4-0-9

Scale = 1:27.3

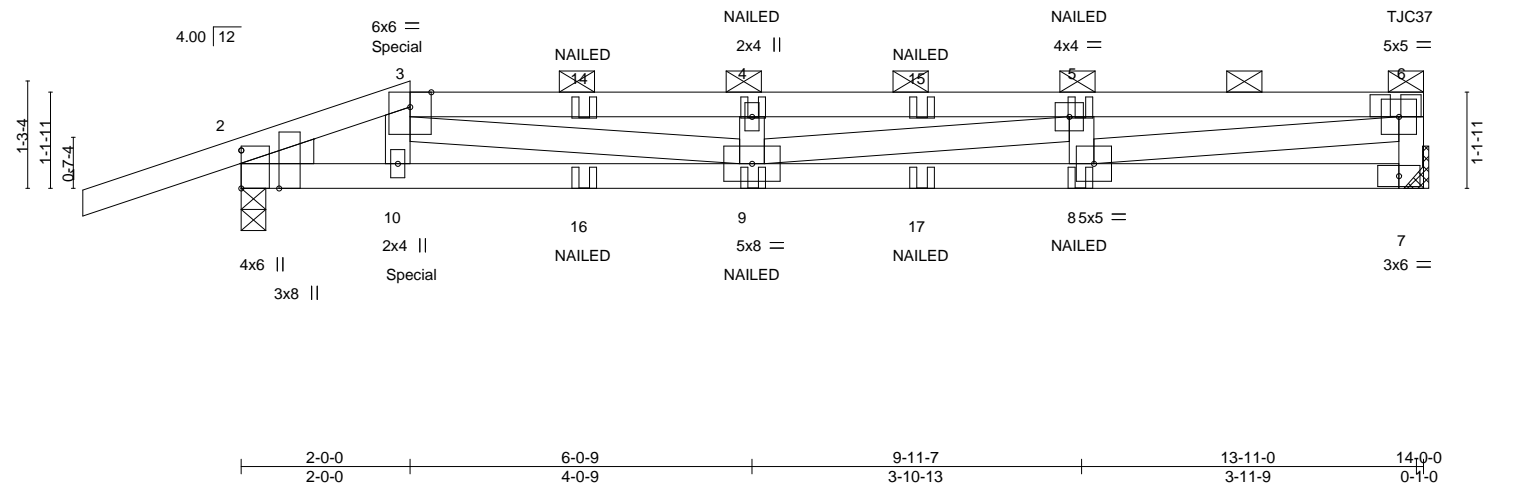


Plate Offsets (X,Y)--		[2:0-5-6,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.14	8-9	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	8-9	>631	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014		Matrix-MS							Weight: 51 lb	FT = 20%	

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO I44815410 Job Reference (optional)
JOBS	E1	Half Hip Girder	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:33 2021 Page 2 ID:gEKkeJ3K1?su6kS1RPO3TNyVP2F-6aVL6H2WLaiuVBK8cfeDRJRTJ0jkiMCc6D5kDszkuC4		

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-70, 3-6=-70, 7-11=-20
- Concentrated Loads (lb)
- Vert: 6=-140(F) 10=7(F) 9=7(F) 8=7(F) 16=7(F) 17=7(F)

 **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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		Ply	1	SUMMIT/WOODSIDE RIDGE #140/MO	144815411
JOB	E2	Roof Special					Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:34 2021 Page 1		ID:gEKkeJ3K1?su6kS1RP03TNyVP2F-an3kKd396uql6KvLAN9S_X_EQ5hRs0mKtrHllzkuC3			
-1-10-8 1-10-8			4-0-0 4-0-0		11-0-0 7-0-0		14-0-0 3-0-0	

Scale = 1:26.4

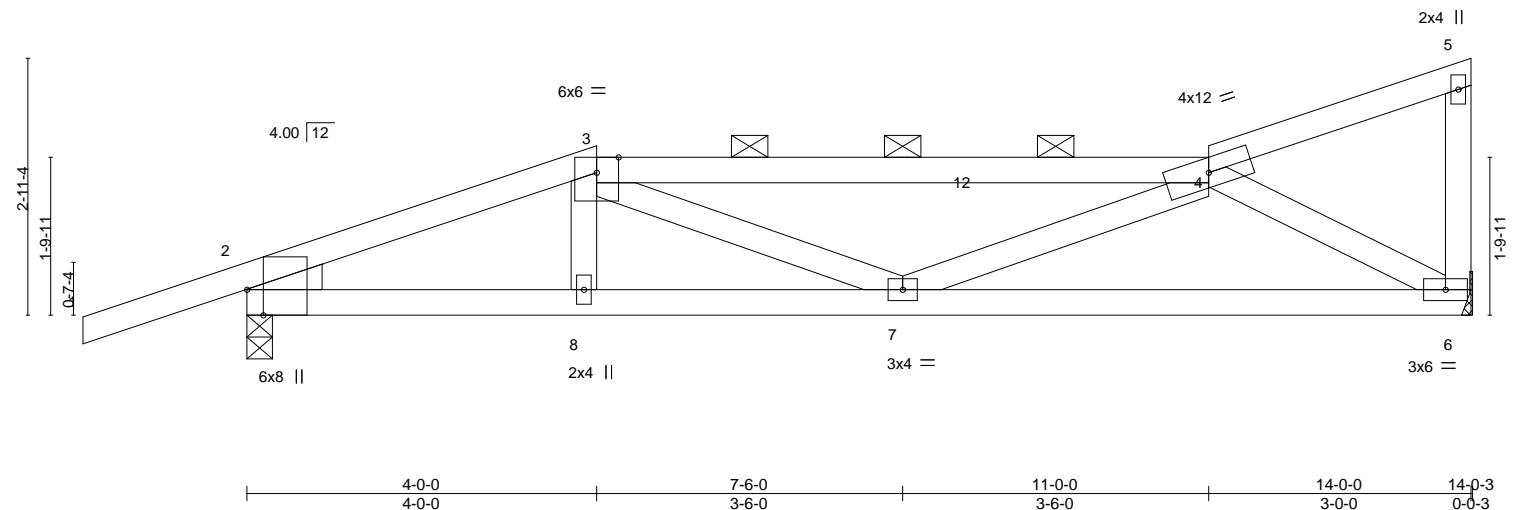


Plate Offsets (X,Y)--		[2:0-1-14,0-6-14], [2:0-3-8,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.11	6-7	>999	180			
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.02	6	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS								
									Weight: 52 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
 Max Horz 2=124(LC 11)
 Max Uplift 6=143(LC 12), 2=222(LC 8)
 Max Grav 6=615(LC 1), 2=764(LC 1)

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

TOP CHORD 2-3=-1206/401, 3-4=-1202/355
 BOT CHORD 2-8=-476/1124, 7-8=-479/1128, 6-7=-348/968
 WEBS 4-6=-1089/435, 4-7=-15/398

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 13-10-4 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.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 6 and 222 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) 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.



February 15, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO 144815412 Job Reference (optional)
JOBS	E3	Roof Special	8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:35 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-2zd6Xz4ntByckUUXj4ghWkWAZpT7Al6vZXaqlIzkuC2		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			13-0-0 14-0-0 7-0-0 1-0-0		

Scale = 1:26.3

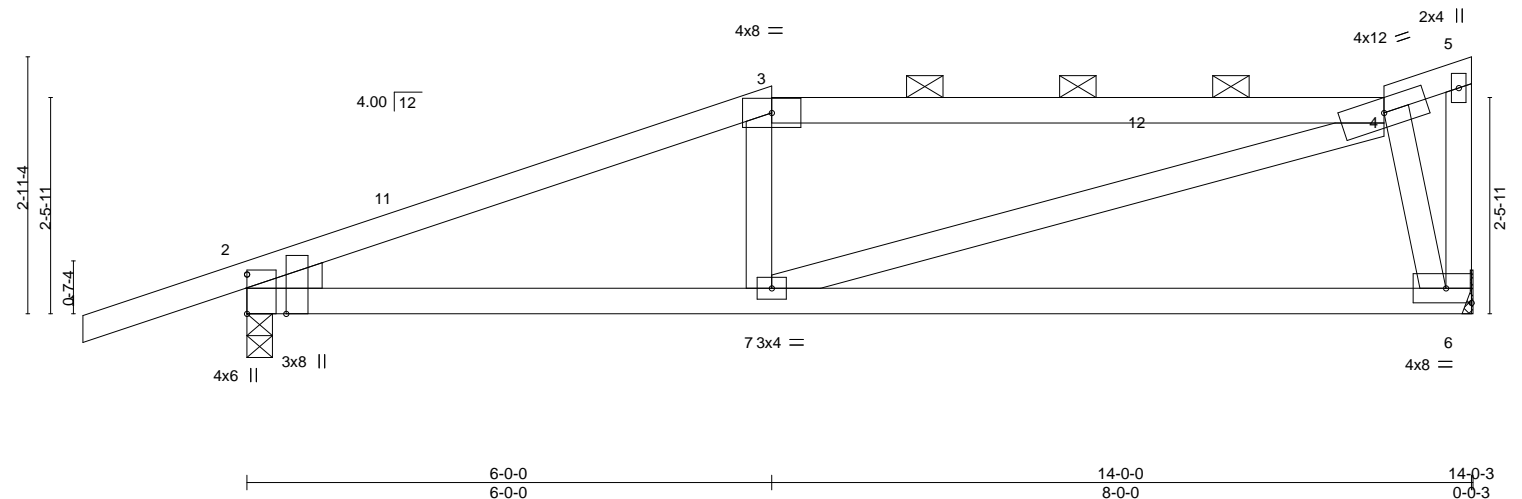


Plate Offsets (X,Y)-- [2:0-5-6,Edge]		6-0-0 6-0-0		14-0-0 8-0-0		14-0-3 0-0-3	
LOADING (psf)	SPACING-	2-0-0		CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15		TC 0.66	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL	1.15		BC 0.43	Vert(LL) -0.11 6-7 >999 240		
BCLL 0.0	Rep Stress Incr	YES		WB 0.31	Vert(CT) -0.23 6-7 >734 180		
BCDL 10.0	Code IRC2018/TPI2014			Matrix-AS	Horz(CT) 0.01 6 n/a n/a		
						Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (4-2-6 max.): 3-4.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS. (size) 6=Mechanical, 2=0-3-8
 Max Horz 2=124(LC 11)
 Max Uplift 6=143(LC 12), 2=222(LC 8)
 Max Grav 6=615(LC 1), 2=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1131/346, 3-4=-1031/365
 BOT CHORD 2-7=-418/1025, 6-7=-131/327
 WEBS 4-7=-310/738, 4-6=-823/400

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-10-4 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.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 6 and 222 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) 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.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		SUMMIT/WOODSIDE RIDGE #140/MO 144815413
JOBS	E4	Half Hip	Ply 1 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:35 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPO3TNyVP2F-2zd6Xz4ntByckUUXj4ghWkWCpT2ACjvZxaqllzkuC2		Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			03/04/2021		

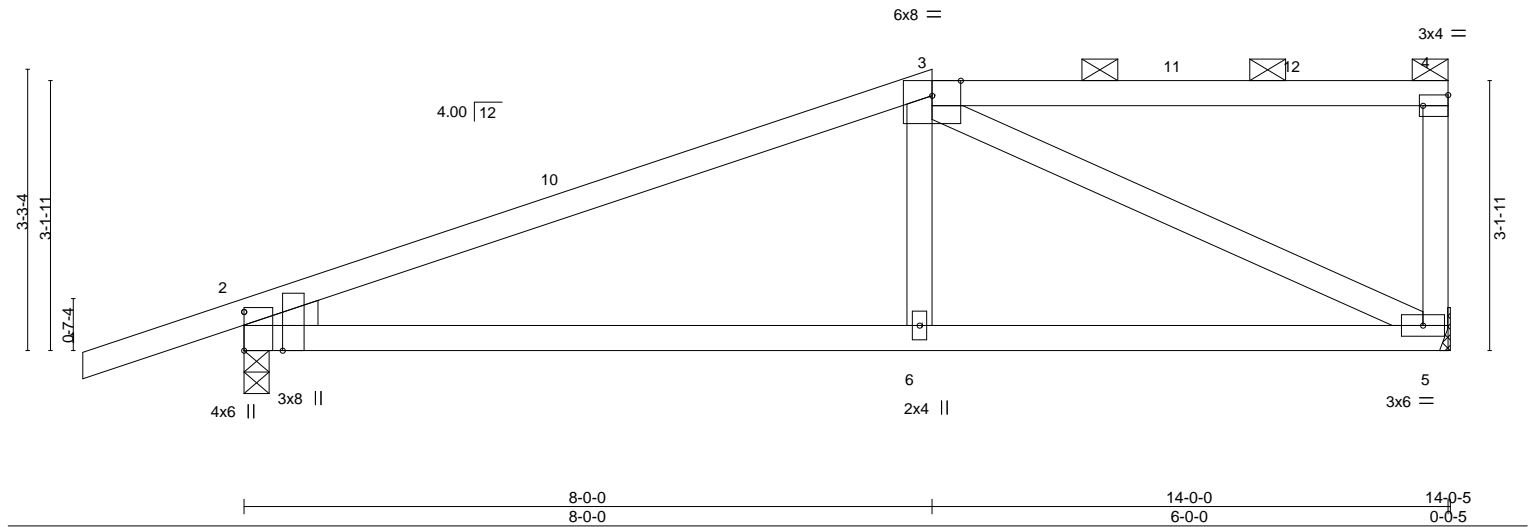


Plate Offsets (X,Y)-- [2:0-5-6,Edge], [4:Edge,0-1-8]		8-0-0		14-0-0		14-0-5	
		8-0-0		6-0-0		0-0-5	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	0.08	6-9	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.15	6-9	>999
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.02	2	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES		GRIP	
				MT20		197/144	
				Weight: 49 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS.	(size) 5=Mechanical, 2=0-3-8
	Max Horz 2=135(LC 11)
	Max Uplift 5=-141(LC 8), 2=-221(LC 8)
	Max Grav 5=615(LC 25), 2=764(LC 25)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-947/284
BOT CHORD	2-6=-374/830, 5-6=-376/822
WEBS	3-6=0/301, 3-5=-864/372

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 13-10-4 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 221 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

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

Job	Truss	Truss Type	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	E5	Half Hip	1	I44815414

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:36 2021 Page 1

ID: gEKkeJ3K1?su6kS1RPQ8TNyVP2F-X9BUJ5PdV4TMe3jHnBw3y3SnDorvIT3oBK0qBzkuC1

03/04/2021

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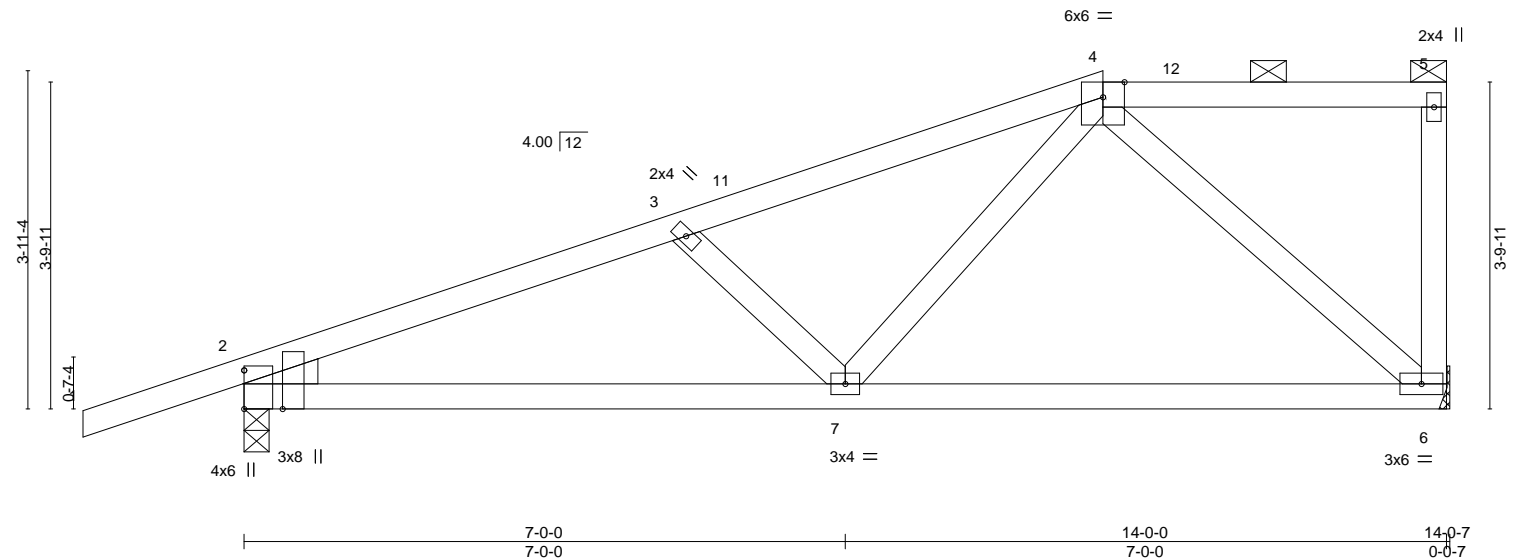


Plate Offsets (X,Y)--		[2:0-5-6,Edge]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.05	6-7	>999
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.11	6-7	>999
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	6	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS					
						PLATES	GRIP		
						MT20	197/144		
						Weight: 53 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=164(LC 11)
Max Uplift 6=-144(LC 8), 2=-218(LC 8)
Max Grav 6=615(LC 1), 2=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1116/316, 3-4=-878/240
BOT CHORD 2-7=-491/1013, 6-7=-277/487
WEBS 3-7=-322/210, 4-7=-102/464, 4-6=-628/325

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 10-0-0, Exterior(2E) 10-0-0 to 13-10-4 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 6 and 218 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO I44815415 Job Reference (optional)
JOBS	E6	Half Hip	8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:37 2021 Page 1 ID: gEKkeJ3K1?su6kS1RP03TNyVP2F-?Mksye51OpCKzoevrVi9b9ccXd8feC0C0q3xMdzkuC0		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

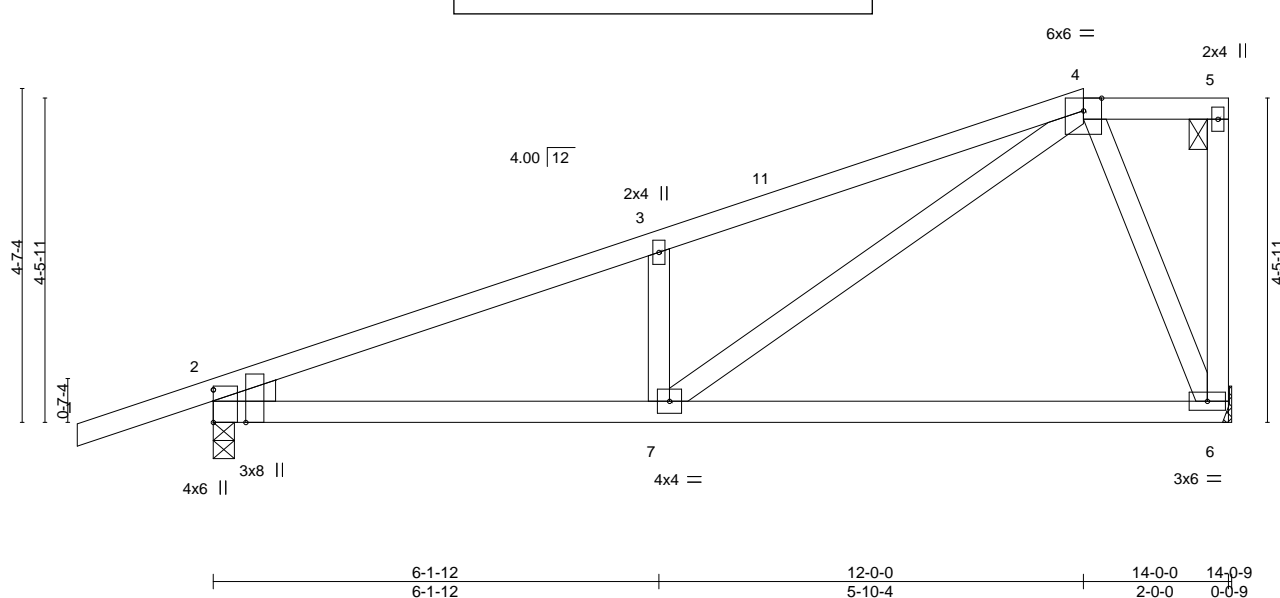


Plate Offsets (X,Y)--		[2:0-5-6,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.10	6-7	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.20	6-7	>821	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 56 lb	FT = 20%	

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815416 Job Reference (optional)
JOBS	F1	Hip Girder	ID: gEKeJ3K1?su6kS1RPQ3TNYVP2F-TYIEA_6f96KBbyD6PCDO8N8mQ1WSNjLLFUpVu4zkuC?		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:38 2021 Page 1 VP2F-TYIEA_6f96KBbyD6PCDO8N8mQ1WSNjLLFUpVu4zkuC?
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Scale = 1:18.6		

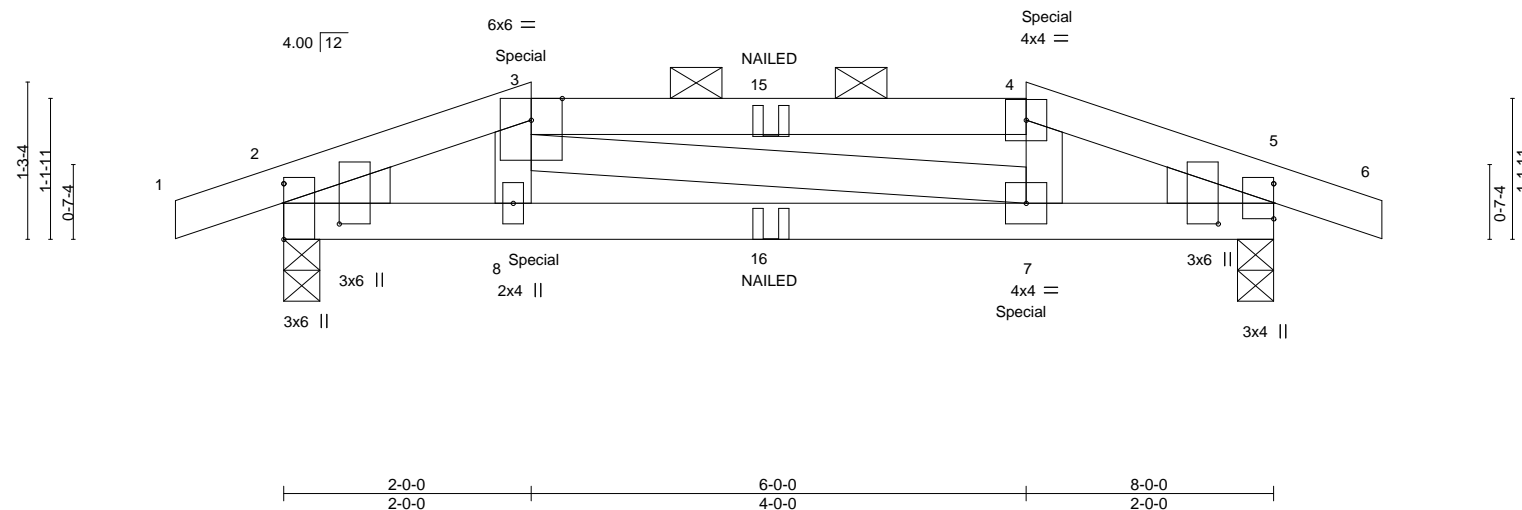


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6], [5:0-3-14,0-5-6]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.02	7-8	>999	240	
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.04	7-8	>999	180	
BCLL 0.0	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
				Weight: 29 lb		FT = 20%			

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 5=0-3-8
Max Horz 2=-17(LC 26)
Max Uplift 2=-134(LC 4), 5=-134(LC 5)
Max Grav 2=434(LC 1), 5=434(LC 1)

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

TOP CHORD 2-3=-643/158, 3-4=-596/158, 4-5=-643/156
BOT CHORD 2-8=-132/600, 7-8=-136/596, 5-7=-121/599

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 64 lb up at 2-0-0, and 36 lb down and 64 lb up at 6-0-0 on top chord, and 22 lb down and 12 lb up at 2-0-0, and 22 lb down and 12 lb up at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- 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, 9-12=-20
Concentrated Loads (lb)
Vert: 8=-8(B) 7=-8(B) 16=-9(B)



February 15, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO I44815417 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:39 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNYVP2F-xksdNK7HwQS2D6nlywidhah_MRuF6AQVU8Y2RWzkuC_
JOBS	F2	Common			
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			
<div style="display: flex; justify-content: space-between;"> <div> -0-10-8 0-10-8 </div> <div> 4-0-0 4-0-0 </div> </div>				<div style="display: flex; justify-content: space-between;"> <div> 8-0-0 4-0-0 </div> <div> 8-10-8 0-10-8 </div> </div>	

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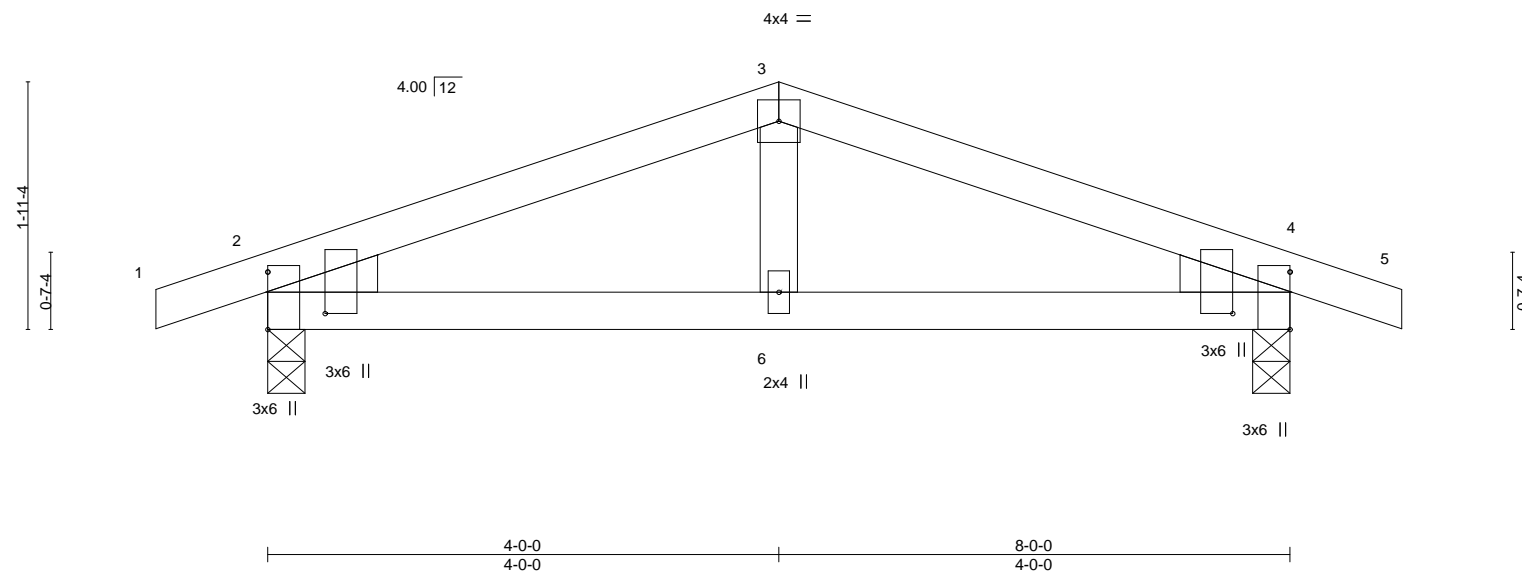


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6], [4:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 6-12 >999 240
			Vert(CT) -0.02 6-12 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 25 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=29(LC 16)
	Max Uplift 2=-105(LC 8), 4=-105(LC 9)
	Max Grav 2=421(LC 1), 4=421(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-510/338, 3-4=-510/338
BOT CHORD	2-6=-231/447, 4-6=-231/447

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-11, Interior(1) 7-1-11 to 8-10-8 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 2 and 105 lb uplift at joint 4.
 - 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) 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.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		SUMMIT/WOODSIDE RIDGE #140/MO I44815418
JOBS	F3	Common	1 ID: gEKkeJ3K1?su6kS1RPQ3T		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:40 2021 Page 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:40 2021 Page 1 ID: gEKkeJ3K1?su6kS1RPQ3T NyVP2F-PwQ?ag8vhkavqGMUWdGsDoE94qEWrdhejolbyyzkuBz	
-0-10-8 0-10-8		4-0-0 4-0-0		7-7-12 3-7-12	
		03/04/2021			

Scale = 1:15.8

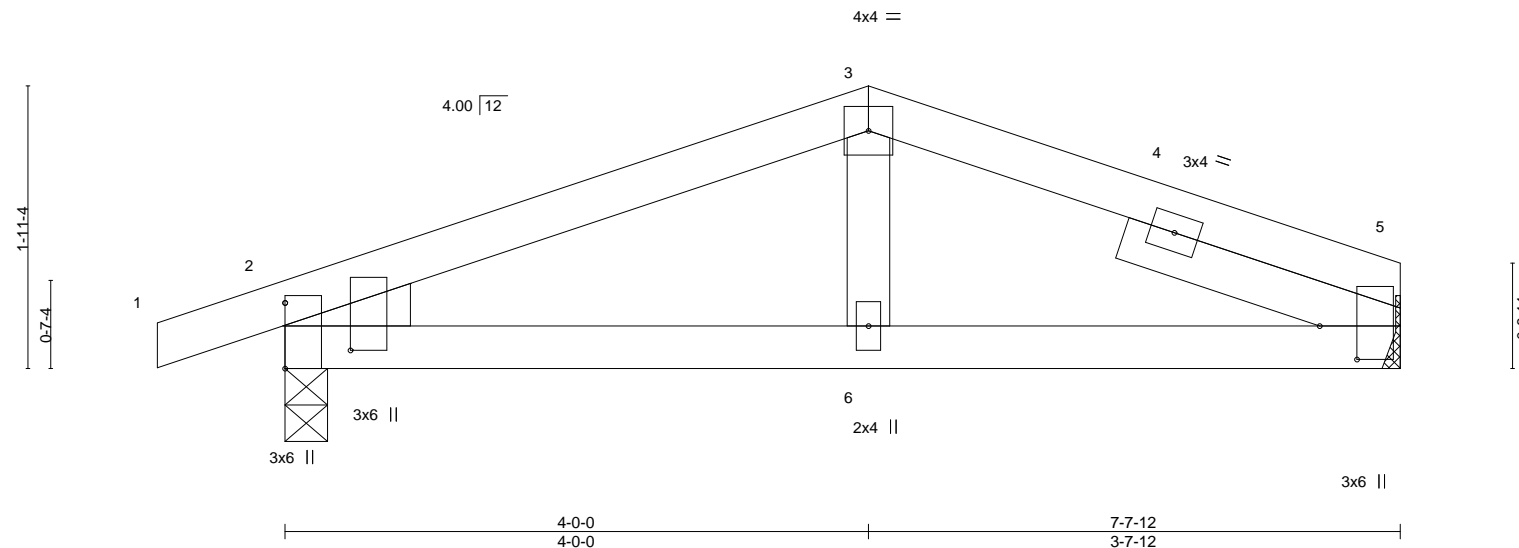


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6], [5:0-2-12,0-3-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(LL) -0.01 6-13 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Vert(CT) -0.02 6-13 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 24 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2			
SLIDER	Right 2x4 SPF No.2 2-0-0		

REACTIONS.	
(size)	5=Mechanical, 2=0-3-8
Max Horz	2=36(LC 12)
Max Uplift	5=62(LC 9), 2=103(LC 8)
Max Grav	5=341(LC 1), 2=409(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-476/323, 3-5=-437/333
BOT CHORD	2-6=-253/415, 5-6=-253/415

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-2, Interior(1) 7-1-2 to 7-7-12 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 5 and 103 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.
 - 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.



February 15, 2021

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

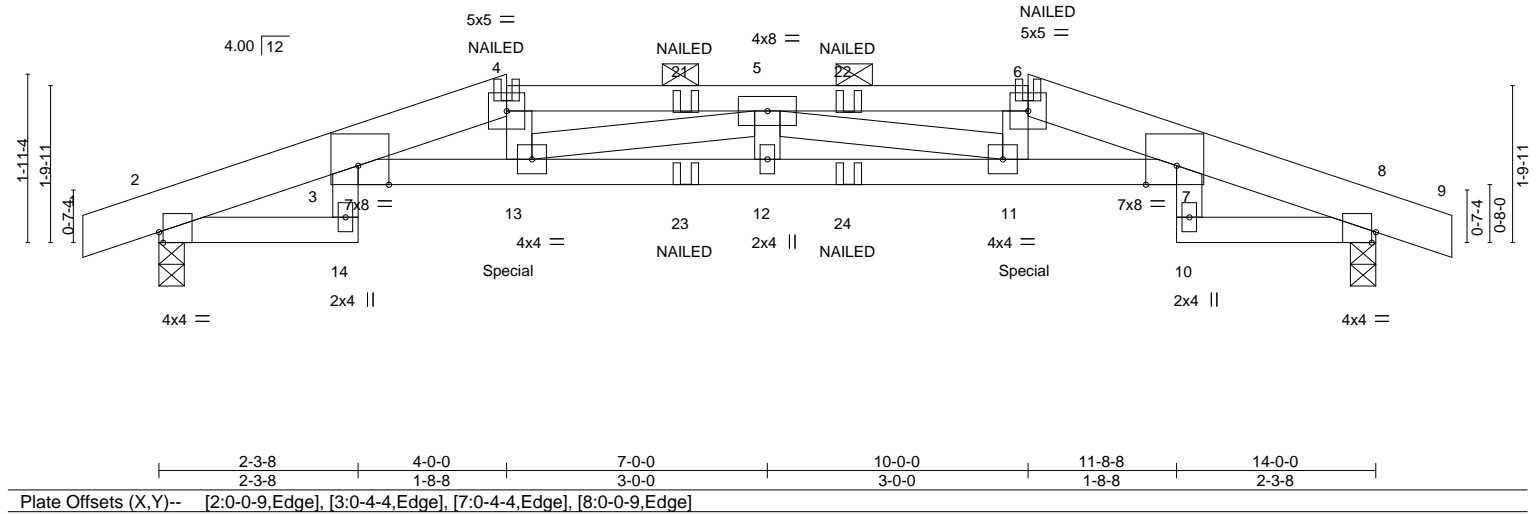
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	G1	Hip Girder			2	I44815419
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZ0kBz3guD-t7_No09YS1imSPxh4Ln5m?m8JEOxa4roxS19UOzkuBy			
-0-10-8 2-3-8 4-0-0 7-0-0 10-0-0 11-8-8 14-0-0 14-10-8 0-10-8 2-3-8 1-8-8 3-0-0 3-0-0 1-8-8 2-3-8 0-10-8			03/04/2021			

Scale = 1:26.5



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 0.90	Vert(LL)	-0.19	12	>881	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.34	12	>498	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.19	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS							
									Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
4-6: 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 8=0-3-8
	Max Horz 2=28(LC 33)
	Max Uplift 2=322(LC 4), 8=322(LC 5)
	Max Grav 2=1071(LC 1), 8=1071(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-16=470/162, 3-4=3949/1154, 4-5=4022/1186, 5-6=4022/1165, 6-7=3949/1134, 7-8=470/162
BOT CHORD	3-14=62/257, 3-13=1140/4001, 12-13=1254/4456, 11-12=1254/4456, 7-11=1098/4001, 7-10=58/257
WEBS	5-13=540/166, 5-11=540/162

- NOTES-**
- 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: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 2 and 322 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 272 lb down and 134 lb up at 4-0-0, and 272 lb down and 134 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 15, 2021

LOAD CASE(S) Standard

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO I44815419 Job Reference (optional)
JOBS	G1	Hip Girder	8.240 s Mar 9 2020	MiTek Industries, Inc.	Mon Feb 15 12:50:41 2021 Page 2
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:X_h1Y?HVzNtCEdCgmvZ0kBz3guD-t7_No09YS1imSPxh4Ln5m?m8JEOxa4roxS19UOzkuBy		

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, 6-7=-70, 7-9=-70, 14-15=-20, 3-7=-20, 10-18=-20
- Concentrated Loads (lb)
 - Vert: 4=-28(B) 6=-28(B) 13=-272(B) 11=-272(B) 21=-28(B) 22=-28(B) 23=-53(B) 24=-53(B)

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Structural drawing of a roof truss system. The drawing includes the following dimensions and labels:

- Vertical Dimensions (Left):** 2'-7.4" (total height), 2'-5.11" (height to peak), 0'-7.4" (height to eave).
- Horizontal Dimensions (Bottom):** 2'-3-8" (span 1), 6'-0-0" (span 2), 8'-0-0" (span 3), 11'-8-8" (span 4), 14'-0-0" (span 5).
- Member Labels:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 19, 20, 21.
- Supports:** 3x6 = (left), 3x4 || (left), 2x4 || (center), 3x4 = (center), 3x4 || (right), 3x6 = (right).
- Other Labels:** 6x6 =, 5x5 =, 5x8 =, 4.00' 12", 0'-7.4", 0'-8-0".

Plate Offsets (X,Y)-- [2:0-0,0,0-12], [3:0-2-8,0-2-8], [5:0-2-8,0-2-4], [6:0-2-8,0-2-8], [7:Edge,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	0.90	Vert(LL)	-0.19	6-10	>863	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.35	3-11	>473	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.23	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 51 lb	FT = 20%

TOP CHORD	2x6 SPF No.2 *Except*
	4-5: 2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-7-6 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.

(size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-40(LC 13)
 Max Uplift 2=-162(LC 8), 7=-162(LC 9)
 Max Grav 2=691(LC 1), 7=691(LC 1)

TOP CHORD 3-14=-305/140, 3-4=-1552/585, 4-5=-1507/580, 5-6=-1552/549, 6-7=-305/138
BOT CHORD 3-11=-503/1510, 10-11=-505/1507, 6-10=-454/1511

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 6-0-0, Exterior(2E) 6-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 2 and 162 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) 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.



February 15, 2021



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Diagram illustrating the structural layout of a roof truss system, showing various members and their dimensions.

Members and Dimensions:

- Top Chord:** 2-11-4 (Left), 0-7-4 (Right)
- Bottom Chord:** 2-3-8 (Left), 7-0-0 (Center), 11-8-8 (Right), 14-0-0 (Far Right)
- Vertical Members:** 6x8 = (Center), 2x4 || (Center), 3x6 = (Left), 3x6 = (Right)
- Diagonal Members:** 17 (Left), 18 (Right)
- Horizontal Members:** 9 (Center), 5x8 = (Left), 5x8 = (Right)
- Other Labels:** 4 (Top Center), 6 (Right), 7 (Far Right), 10 (Left), 5 (Right)

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [3:0-2-12,0-2-8], [5:0-2-12,0-2-8], [6:Edge,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	0.90	Vert(LL)	-0.21	5-9	>806	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.38	5-9	>439	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.25	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 49 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=46(LC 16)
 Max Uplift 2=-155(LC 8), 6=-155(LC 9)
 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 3-12=-305/134, 3-4=-1496/491, 4-5=-1496/493, 5-6=-305/130
 BOT CHORD 3-9=-389/1448, 5-9=-389/1448

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDFL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2 and 155 lb uplift at joint 6.
- 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) 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.



February 15, 2021



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 Code**.

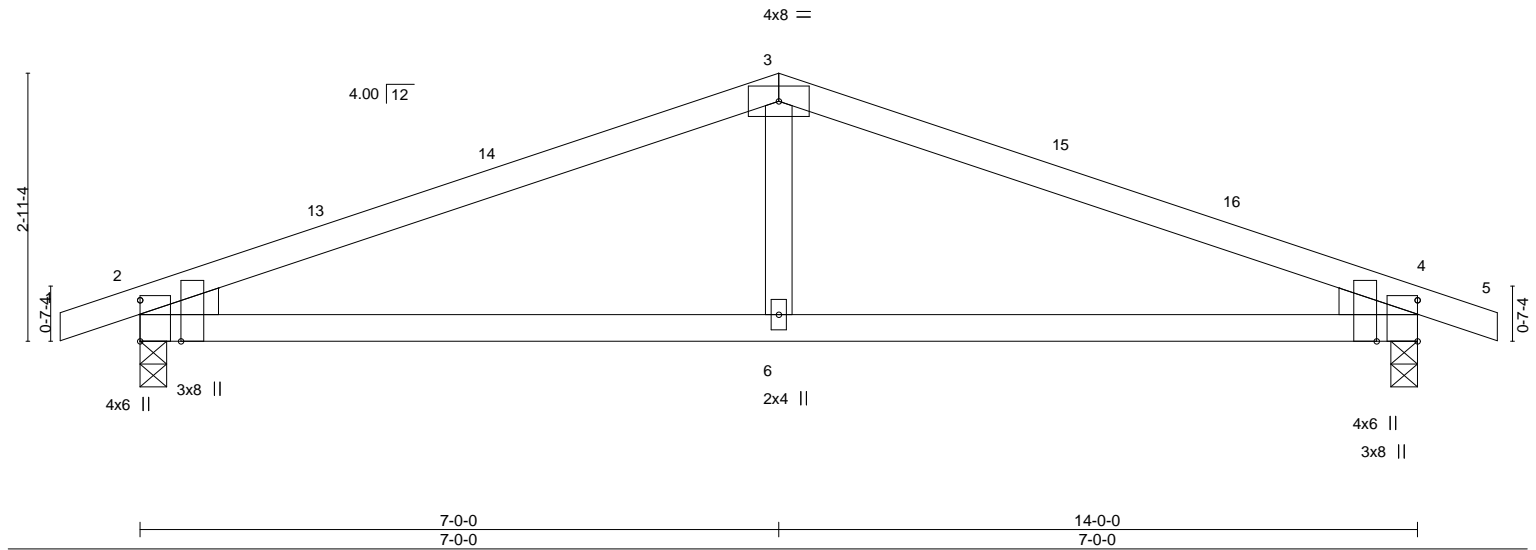
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815422 Job Reference (optional)
JOBS	G4	Common	1 ID: X_h1Y?HVzNtCEdCgmvZOKBz3guD-ligWQ2BQly5LJtgGtKoOeOmSSXVnRBEdQGp5jzkuBv		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:44 2021 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:44 2021 Page 1 14-0-0 7-0-0 14-0-0 7-0-0 14-10-8 0-10-8		

Scale = 1:25.3



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 0.46	Vert(LL)	-0.08	6-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.12	6-12	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.02	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=46(LC 16)
	Max Uplift 2=-155(LC 8), 4=-155(LC 9)
	Max Grav 2=691(LC 1), 4=691(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1060/367, 3-4=-1060/367
BOT CHORD	2-6=-255/945, 4-6=-255/945
WEBS	3-6=0/281

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2 and 155 lb uplift at joint 4.
 - 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.
 - 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.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: X_h1Y?HVzNtEdCgmVZOkBz3guD-muDueOC2WGDBx1FSJA1wrxxGrtqWs8Ns4?MdAzkuBu 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO 144815423 Job Reference (optional)
JOBS	G5	Common	8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:45 2021 Page 1 ID: X_h1Y?HVzNtEdCgmVZOkBz3guD-muDueOC2WGDBx1FSJA1wrxxGrtqWs8Ns4?MdAzkuBu		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

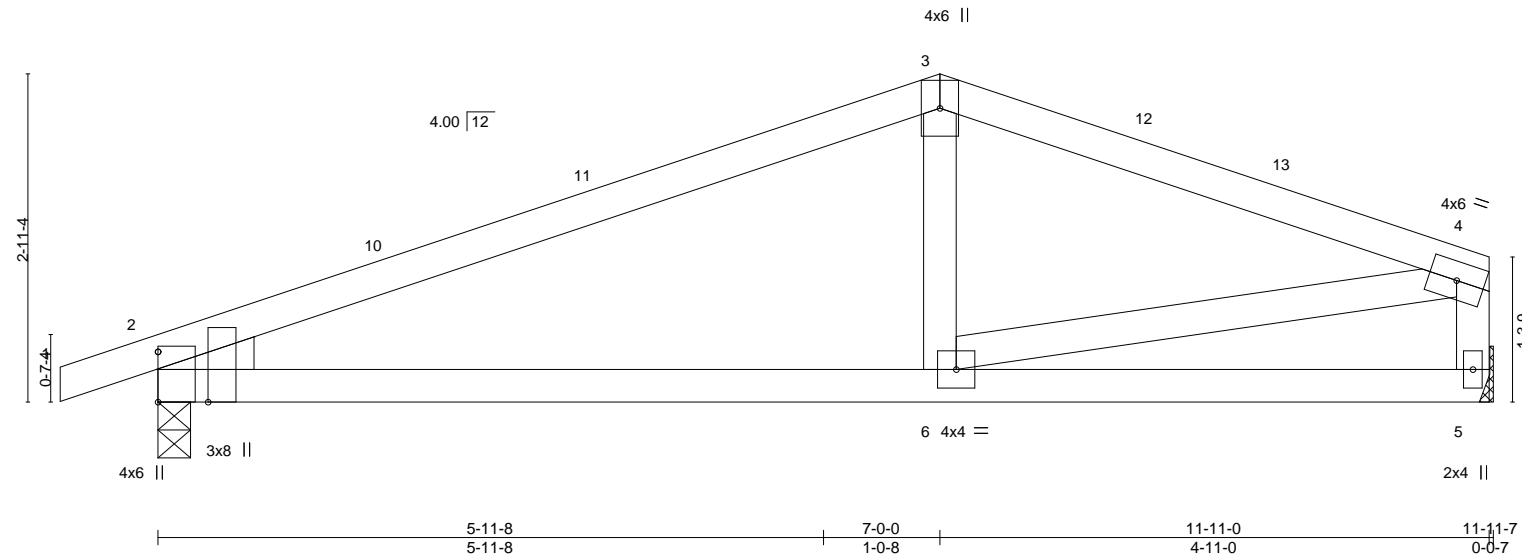


Plate Offsets (X,Y)-- [2:0-5-6,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.06 6-9 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.12 6-9 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02 2 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 39 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

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

Max Horz 2=51(LC 16)

Max Uplift 5=92(LC 9), 2=142(LC 8)

Max Grav 5=527(LC 1), 2=593(LC 1)

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

TOP CHORD 2-3=-769/304, 3-4=-752/327, 4-5=-498/240

BOT CHORD 2-6=-287/669

WEBS 4-6=-247/597

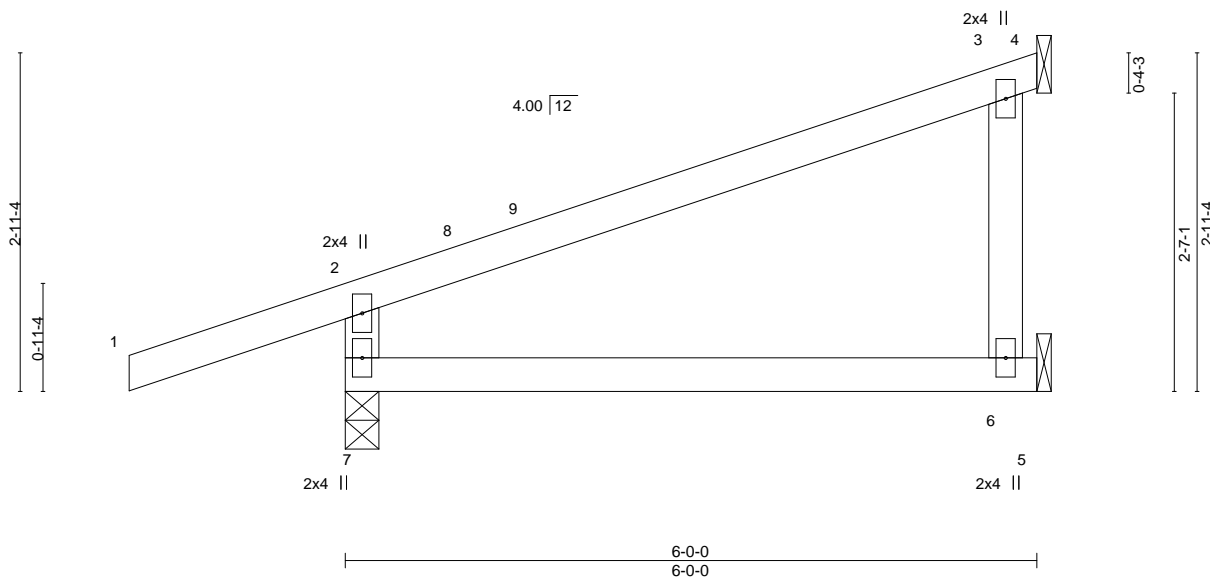
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 11-9-4 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 5 and 142 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.
 - 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.



February 15, 2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: X_h1Y?HVzNtCeDCgmVZOkBz3guD-muDueOC2WGDBx1FSJA1wrxyAruzWuzNs4?MdAzkuBu 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO 144815424 Job Reference (optional)
JOBS	J1	Jack-Open	Builders FirstSource (Valley Center), Valley Center, KS - 67147, -1-10-8 1-10-8		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:45 2021 Page 1 6-0-0 6-0-0

Scale = 1:20.0



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 0.40	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12	6-7	>578	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 6=Mechanical
 Max Horz 7=-10(LC 10), 4=110(LC 8)
 Max Uplift 7=-184(LC 8), 6=-31(LC 12)
 Max Grav 7=418(LC 1), 6=246(LC 1)

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

TOP CHORD 2-7=-362/323

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-11-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 7 and 31 lb uplift at joint 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.
- 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.



February 15, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: X_h1Y?HVzNtCEdCgmvZOKBz3guD-3E8X6nHRsQ5CG6HoD8TgikJ3bgE3f2HPTgCENGzkuBn 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815425 Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:52 2021 Page 1 Bz3guD-3E8X6nHRsQ5CG6HoD8TgikJ3bgE3f2HPTgCENGzkuBn
JOBS	J2	Jack-Open			
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

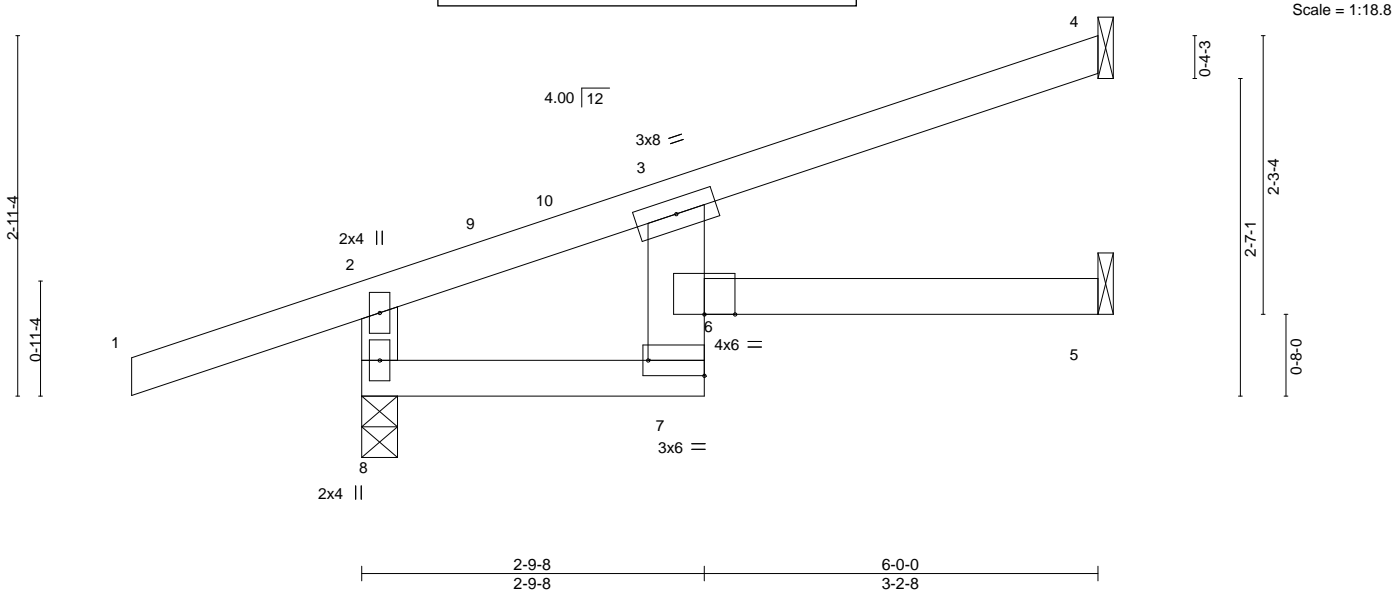


Plate Offsets (X,Y)--		[7:Edge,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.71
TCDL 10.0	Lumber DOL	1.15	BC 0.56
BCLL 0.0	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.13 6 >525 240
			Vert(CT) -0.20 7 >356 180
			Horz(CT) 0.01 5 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 19 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-7: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 8=0-3-8, 5=Mechanical
Max Horz 4=-346(LC 1), 8=346(LC 1)
Max Uplift 8=-206(LC 8), 5=-2(LC 12)
Max Grav 8=583(LC 1), 5=95(LC 3)

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

TOP CHORD 3-4=-396/365
BOT CHORD 7-8=-346/213
WEBS 2-8=-444/322

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 8 and 2 lb uplift at joint 5.
- 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) 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.



February 15, 2021

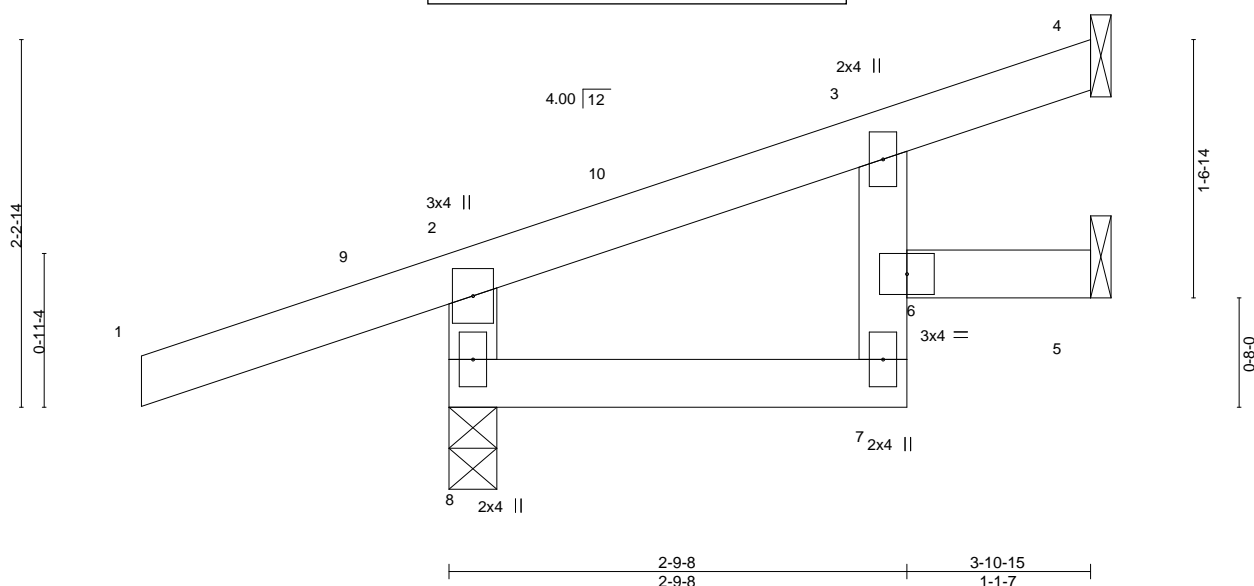
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J3	Jack-Open			I44815426
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-TpqgkoJK9LTn7Z0NuH1NKyLhStNyrPus9eQu_bzkuBk 03/04/2021		
-1-10-8 1-10-8			3-10-15 1-1-7		



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 0.28	Vert(LL)	-0.01	6	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	6	>999	180	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
									Weight: 13 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=114(LC 1), 4=-114(LC 1)
Max Uplift 8=153(LC 8), 5=-11(LC 12)
Max Grav 8=406(LC 1), 5=69(LC 1)

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

TOP CHORD 2-8=-347/271

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 8 and 11 lb uplift at joint 5.
- 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.



February 15, 2021

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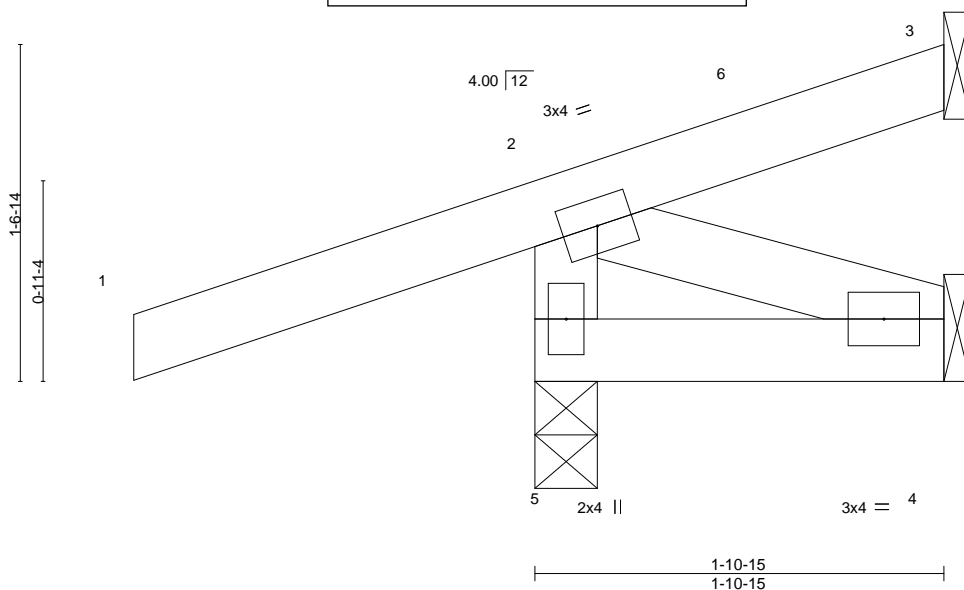
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J4	Jack-Open	AS NOTED ON PLANS REVIEW		1	I44815427
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	DEVELOPMENT SERVICES		Job Reference (optional)	
			LEE'S SUMMIT, MISSOURI		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:56 2021 Page 1	
			ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-x?O2x8KywebeljbZS_YctAusFHjEasX?OIARW1zkuBj			
			03/04/2021			



Scale = 1:10.8

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 0.28	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 0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=127(LC 8), 3=81(LC 8)
Max Uplift 5=76(LC 8), 4=45(LC 8)
Max Grav 5=258(LC 1), 4=42(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-13 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5 and 45 lb uplift at joint 4.
- 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.



February 15, 2021

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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	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J5	Monopitch Supported Gable			1	I44815428
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-x?O2x8KywebeljbZS_YctAuw6HjTas8?OIARW1zkuBj		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:56 2021 Page 1

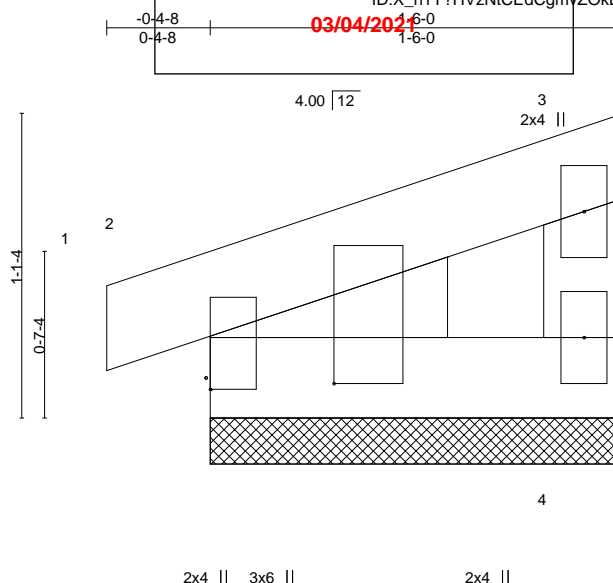


Plate Offsets (X,Y)--		[2:Edge,0-0-3], [2:0-0-4,0-5-9]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.03		Vert(LL)	-0.00 1 n/r	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.02		Vert(CT)	0.00 1 n/r		
BCLL 0.0		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 4 n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-P				Weight: 6 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-6-0, 2=1-6-0
 Max Horz 2=30(LC 9)
 Max Uplift 4=-17(LC 12), 2=-28(LC 8)
 Max Grav 4=58(LC 1), 2=90(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 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 17 lb uplift at joint 4 and 28 lb uplift at joint 2.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J6	Jack-Open			1	I44815429
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:57 2021 Page 1		
				ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-PCyQ9ULahyJUNt9l0i3rPNR46h3HJO8dyv?2TzkuBi		
				03/04/2021		

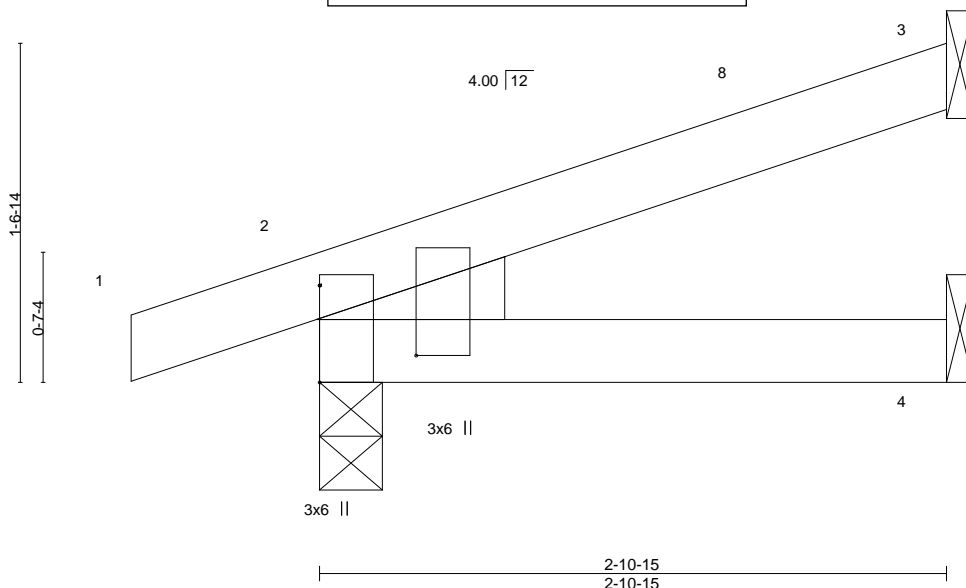


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 7 >999 240
			Vert(CT) -0.00 7 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 9 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 3=-203(LC 1), 2=203(LC 1)
Max Uplift 2=-98(LC 8)
Max Grav 4=44(LC 3), 2=288(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-3 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J7	Jack-Open			1	I44815430
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) ID: X_h1Y?HVzNtCEdCgmVZ0kBz3guD-tOWoMqMCSGsL_1kyaPa4ybzEG5MQ2meIrcfYbvzkuBh		
				8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:58 2021 Page 1 03/04/2021		

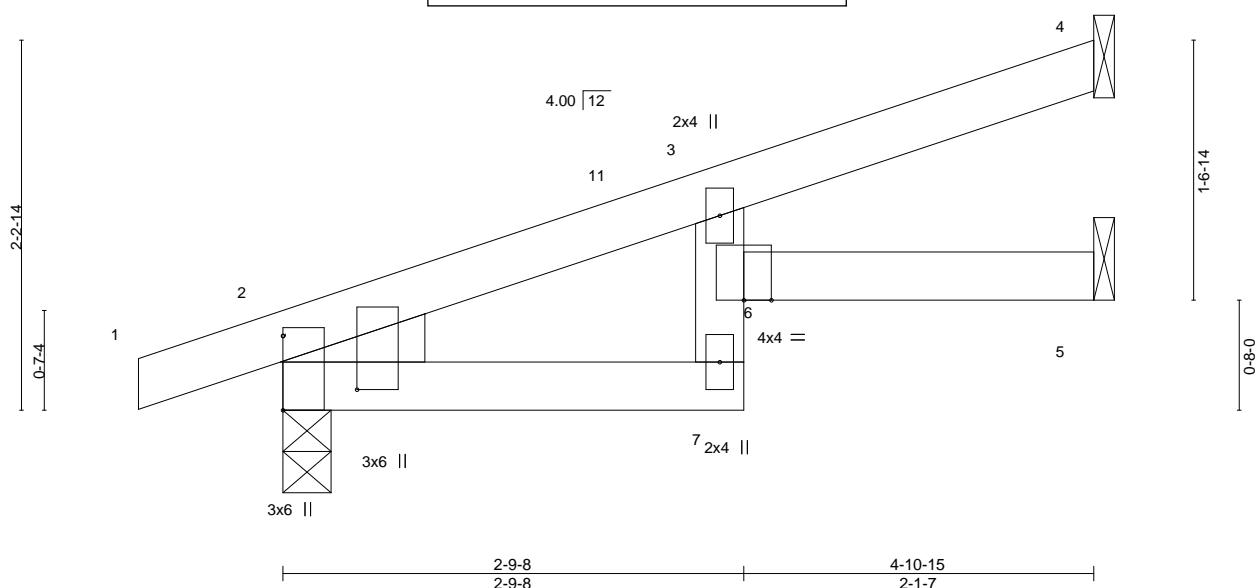


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18
TCDL 10.0	Lumber DOL	1.15	BC 0.24
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.03 6 >999 240
			Vert(CT) -0.03 5-6 >999 180
			Horz(CT) 0.01 5 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 15 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 2=0-3-8
 Max Horz 4=-342(LC 1), 2=342(LC 1)
 Max Uplift 5=-10(LC 12), 2=-126(LC 8)
 Max Grav 5=77(LC 3), 2=421(LC 1)

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

TOP CHORD 2-3=-557/432, 3-4=-370/328

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-3 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 5 and 126 lb uplift at joint 2.
- 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) 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.



February 15, 2021

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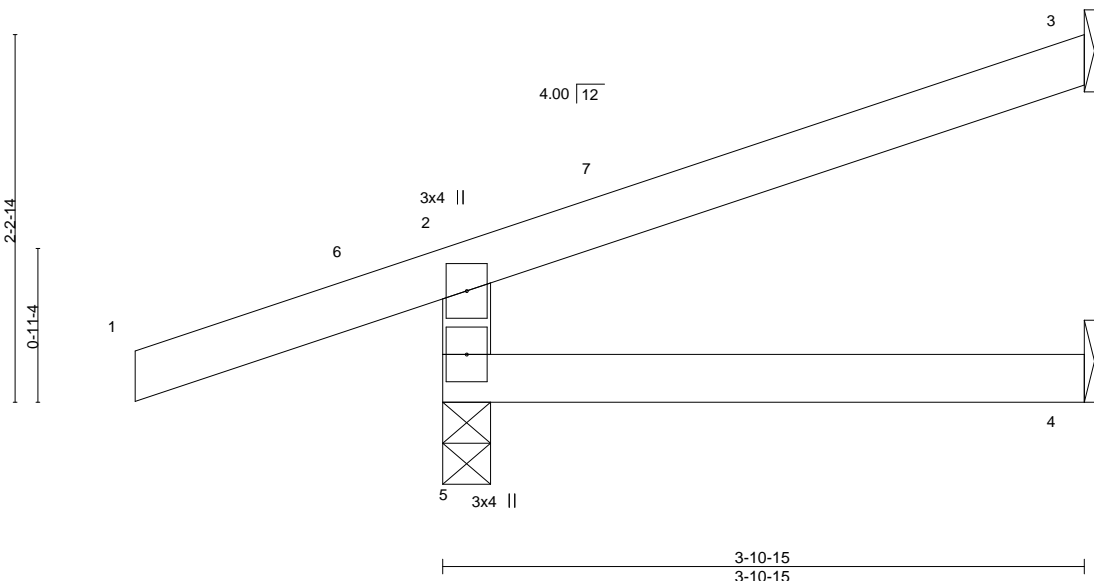
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		SUMMIT/WOODSIDE RIDGE #140/MO I44815431
JOBS	J8	Jack-Open	ID: X_h1Y?HVzNtCEdCgmvZOKBz3guD-tOWoMqMCSGsL_1kyaPa4ybzBR5Nm2meIrcfYbvzkuBh 03/04/2021		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:58 2021 Page 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			
		-1-10-8 1-10-8		3-10-15 3-10-15	

Scale = 1:14.0



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 0.36	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=220(LC 1), 3=220(LC 1)
 Max Uplift 5=180(LC 8)
 Max Grav 5=461(LC 1), 4=59(LC 3)

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

TOP CHORD 2-5=-401/353, 2-3=-290/295

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 5.
- 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.



February 15, 2021

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

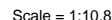
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

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



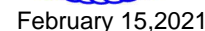
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Weight: 7 lb FT = 20%

TOP CHORD	Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-261/228

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-13 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 5, 14 lb uplift at joint 3 and 6 lb uplift at joint 4.
- 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.



Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		SUMMIT/WOODSIDE RIDGE #140/MO I44815433 Job Reference (optional)
JOB	J9A	Jack-Open	ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-La4AaANqDZ_CcAJ8775JUoWQaVknDuR4GO67MzkuBg 03/04/2021		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:59 2021 Page 1 2-10-15 2-10-15
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

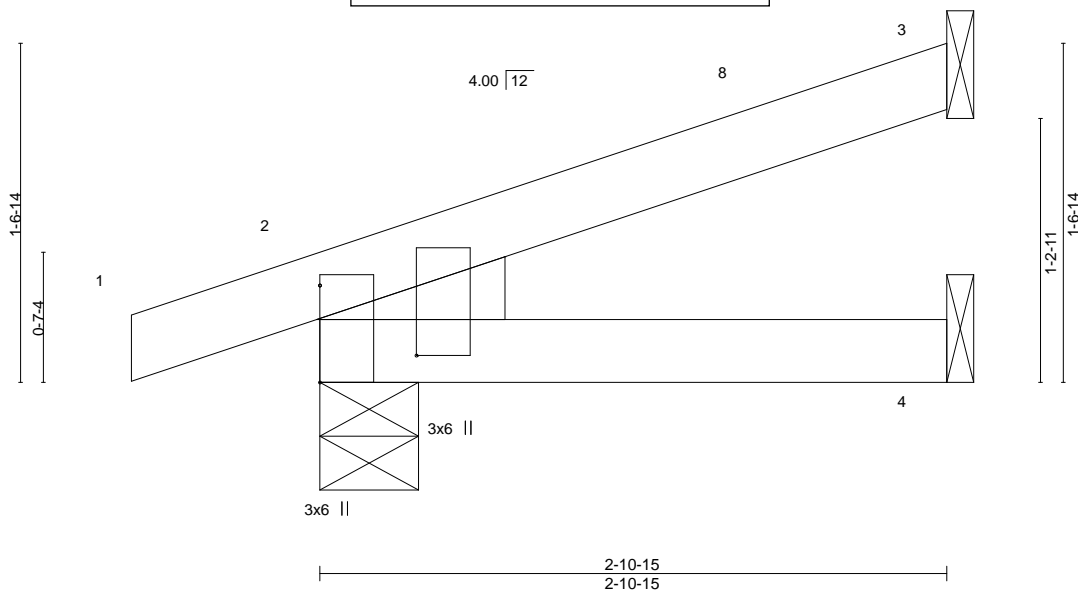


Plate Offsets (X,Y)--		[2:0-3-14,0-5-6]								
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL)	0.01	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 9 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-5-8
 Max Horz 2=55(LC 8)
 Max Uplift 3=35(LC 12), 4=3(LC 12), 2=60(LC 8)
 Max Grav 3=78(LC 1), 4=50(LC 3), 2=199(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-3 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3, 3 lb uplift at joint 4 and 60 lb uplift at joint 2.
- 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.



February 15, 2021

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

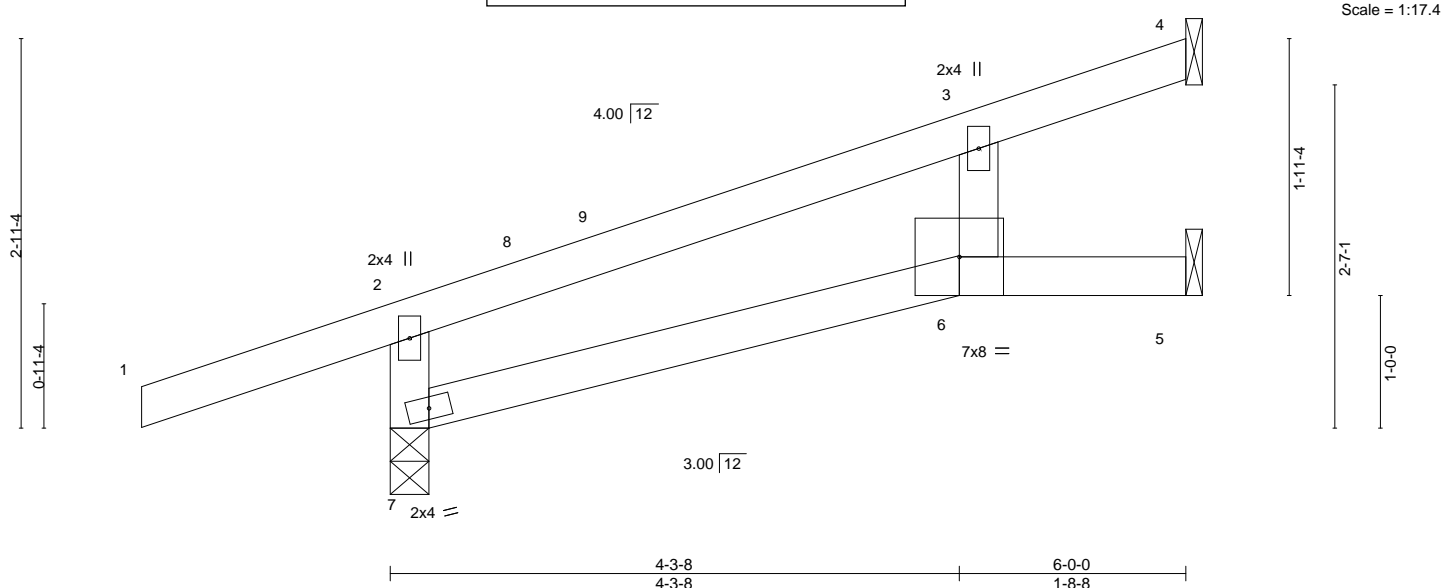
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815434
JOB	J10	Jack-Open	03/04/2021		1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:46 2021 Page 1			
-1-10-8		1-10-8		ID: X_h1Y?HVzNtEdCgmVZOkBz3guD-E4nGrijCgHaL2YBqetuNGT3T9wF8hFLqX5klw9czkuBt			
4-8-8		4-3-8		6-0-0			
1-10-8				1-8-8			



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 0.27	Vert(LL)	0.12	6-7	>573	240	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.24	6-7	>293	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 4=123(LC 8), 7=31(LC 1)
Max Uplift 5=24(LC 12), 7=190(LC 8)
Max Grav 5=222(LC 1), 7=441(LC 1)

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

WEBS 2-7=310/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 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 24 lb uplift at joint 5 and 190 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) 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.



February 15, 2021

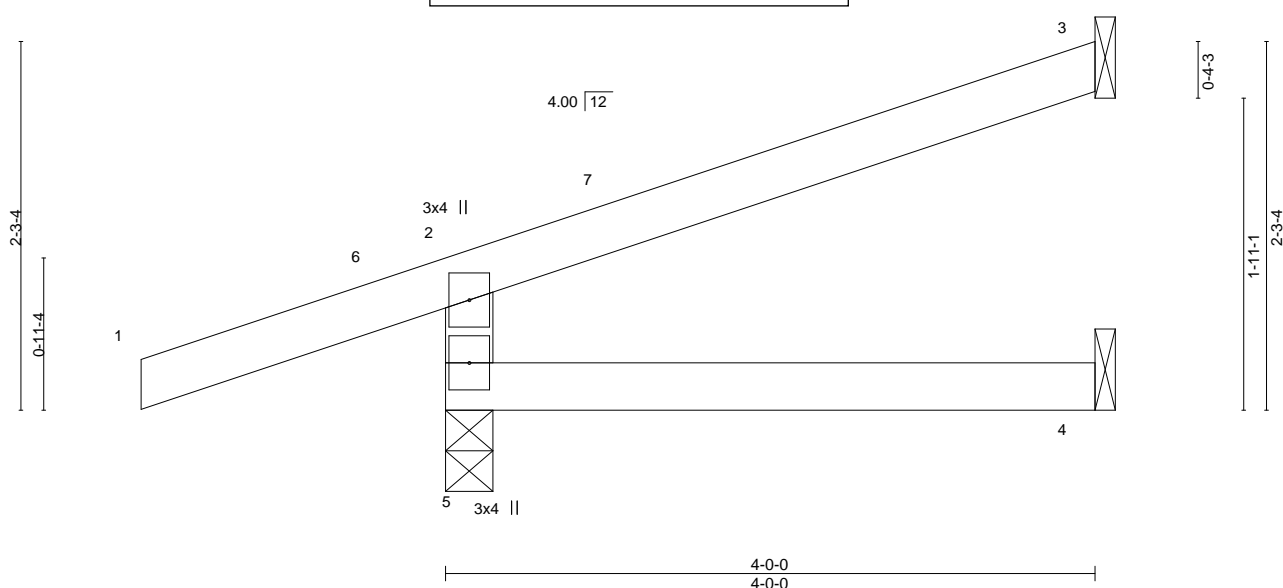
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO	I44815435
JOB	J11	Jack-Open	ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-iHLe23DI2tTvAKPqQbuV?G0J5fd8_ovgKOUTi2zkuBs		1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			03/04/2021		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:47 2021 Page 1		
-1-10-8 1-10-8			4-0-0 4-0-0				



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 0.37	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=229(LC 1), 3=229(LC 1)
Max Uplift 5=182(LC 8)
Max Grav 5=468(LC 1), 4=60(LC 3)

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

TOP CHORD 2-5=-407/356, 2-3=-301/305

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 5.
- 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.



February 15, 2021

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

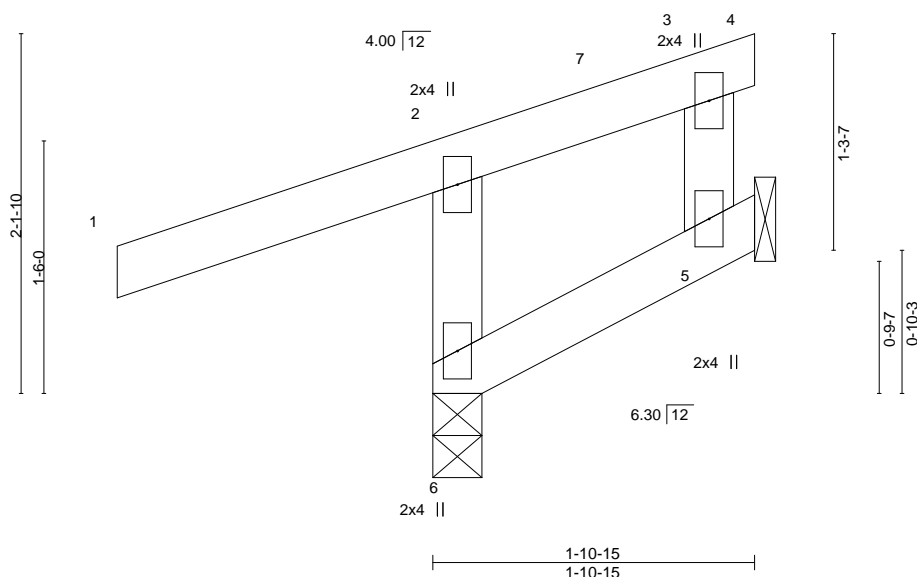
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J13	Jack-Closed			1	I44815436
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:47 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-iHLe23DI2tTvAKPqQbuV?G0KXff4_ovgKOUTi2zkuBs		
		1-10-8 1-10-8		1-10-15 1-10-15		

Scale = 1:13.7



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 0.28	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 5=Mechanical
 Max Horz 6=76(LC 9)
 Max Uplift 6=-138(LC 8), 5=-48(LC 9)
 Max Grav 6=304(LC 1), 5=23(LC 3)

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

TOP CHORD 2-6=-267/247

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-15 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) 6 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 138 lb uplift at joint 6 and 48 lb uplift at joint 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.



February 15, 2021

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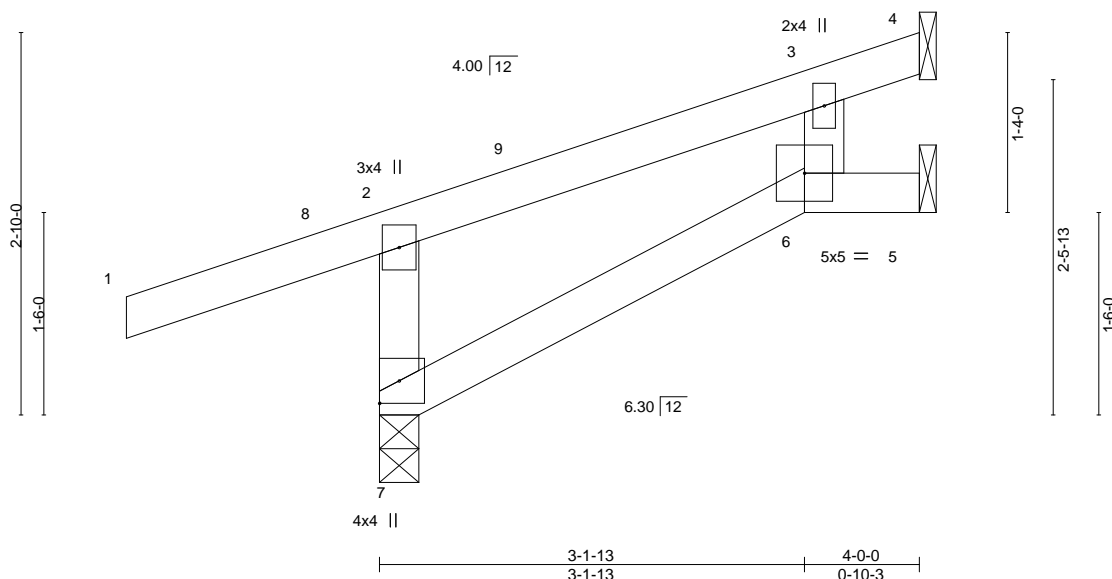
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J15	Jack-Open			1	I44815437
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		Mon Feb 15 12:50:48 2021 Page 1
		-1-10-8 1-10-8		ID: X_h1YY?HVzNtCEdCgmVZ0kBz3guD-ATv0GPExpBbmoUz1_JPkYUZUc3yjdjFxqY2E0EUzkuBr		Job Reference (optional)
		03/04/2021		2-1-13 3-1-13		0-10-3

Scale = 1:17.1



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 0.26	Vert(LL)	0.02 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	0.02 6-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.05 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=78(LC 9)
Max Uplift 7=115(LC 8), 4=43(LC 12), 5=12(LC 12)
Max Grav 7=350(LC 1), 4=79(LC 1), 5=54(LC 1)

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

TOP CHORD 2-7=-298/226

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 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 115 lb uplift at joint 7, 43 lb uplift at joint 4 and 12 lb uplift at joint 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.



February 15, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		SUMMIT/WOODSIDE RIDGE #140/MO I44815438
JOB	J16	Jack-Open	1 2-0-0 2-0-0		Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:49 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNYVP2F-efTOTIFZaVjdPeYDY0wz4h5ggTKbSiPznizamxzkubQ
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			03/04/2021		

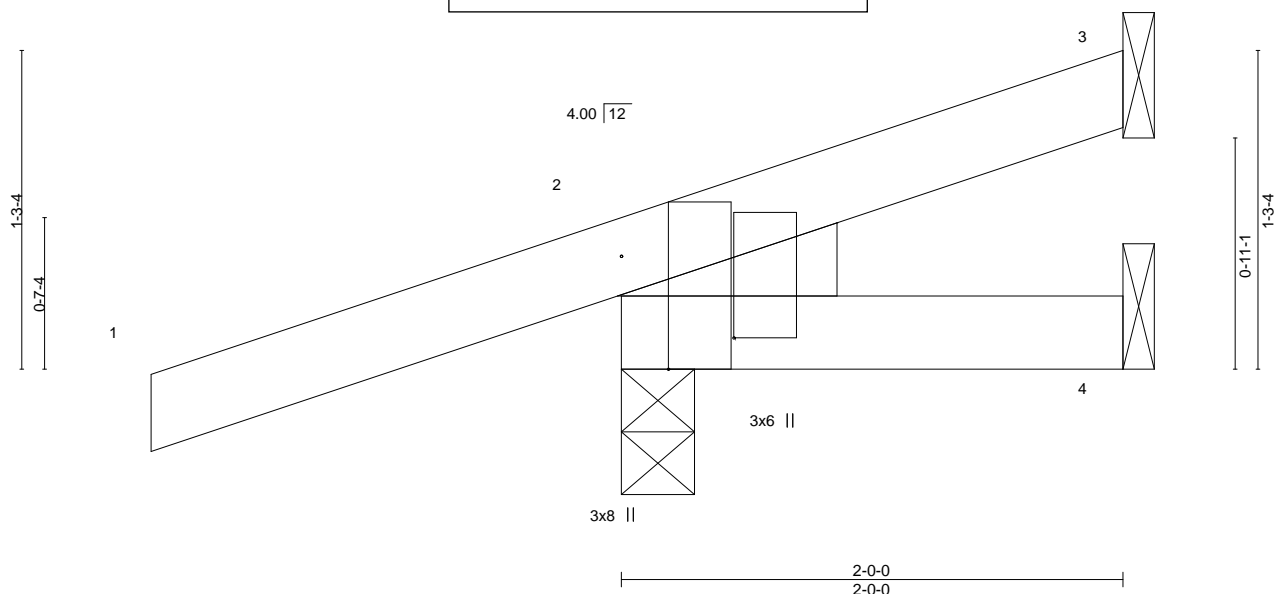


Plate Offsets (X,Y)--		[2:0-5-6,Edge], [2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) 0.00 7 >999 240
			Vert(CT) -0.00 7 >999 180
			Horz(CT) -0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 8 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-3-8
 Max Horz 2=61(LC 8)
 Max Uplift 3=-14(LC 12), 2=-129(LC 8)
 Max Grav 3=25(LC 1), 4=25(LC 3), 2=283(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-11-14 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3 and 129 lb uplift at joint 2.
- 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.



February 15, 2021

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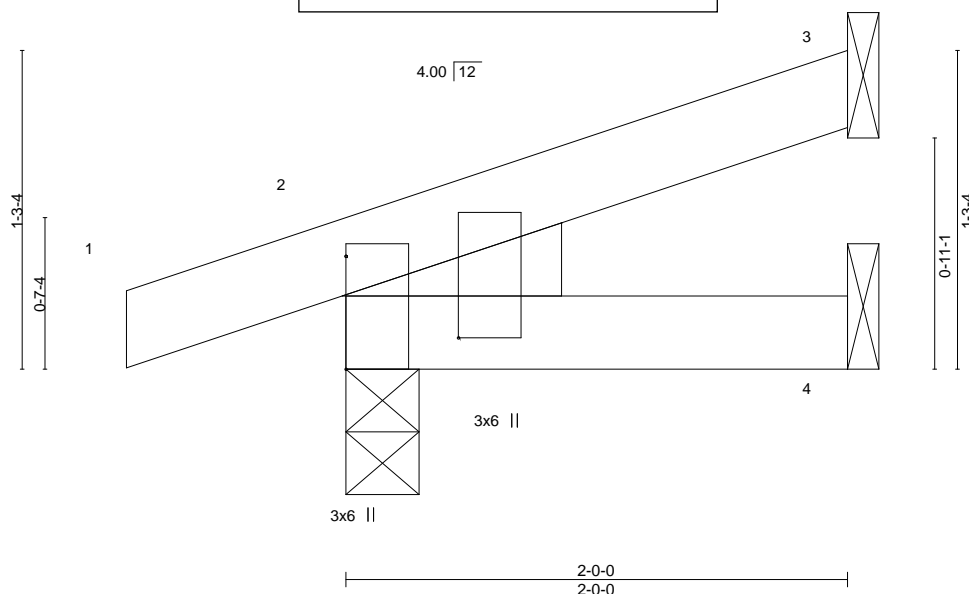
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J16A	Jack-Open			1	I44815439
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID: gEKkeJ3K1?su6kS1RPPQ3TNyVP2F-efTOTIFZaVjdPeYDY0wz4h5jcTKZSIpznizamxzkubQ 03/04/2021		

9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:49 2021 Page 1
 Job Reference (optional)



Scale = 1:9.2

Plate Offsets (X,Y)--		[2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 7 >999 240
			Vert(CT) -0.00 7 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 7 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
 Max Horz 2=43(LC 8)
 Max Uplift 3=-22(LC 12), 4=-4(LC 12), 2=-56(LC 8)
 Max Grav 3=49(LC 1), 4=33(LC 3), 2=164(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 3, 4 lb uplift at joint 4 and 56 lb uplift at joint 2.
- 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.



February 15, 2021

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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	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J17	Jack-Open			1	I44815440
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:50 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-6s1nh5GBKorU1o7P6kRCdverPsgtB9f60Mj7INzkuBp			
			-1-10-8 1-10-8		1-10-15 1-10-15	

Scale = 1:9.0

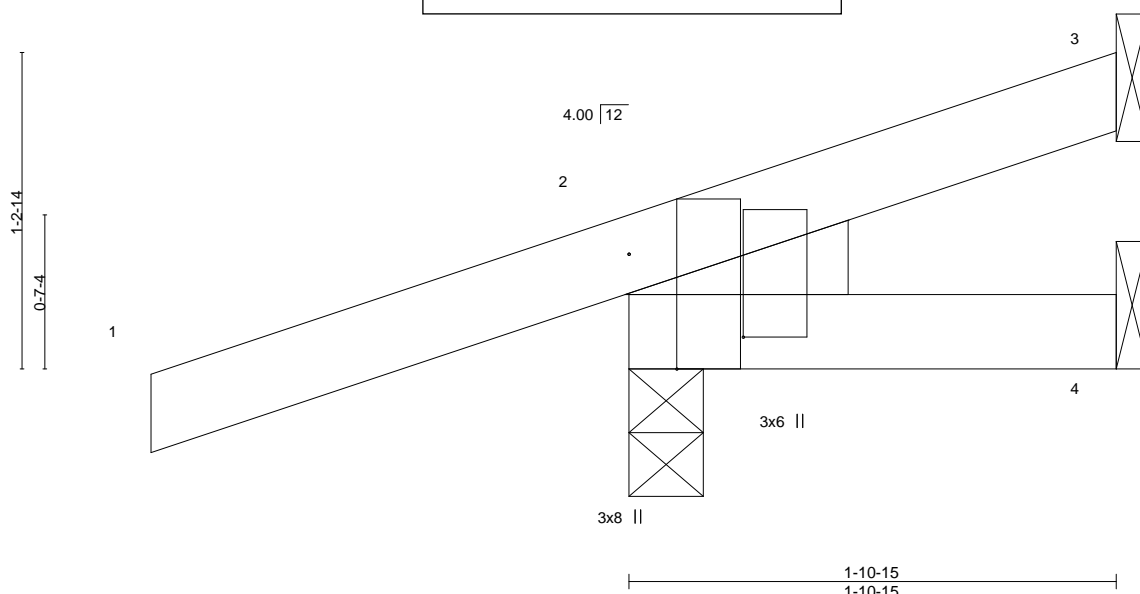


Plate Offsets (X,Y)--		[2:0-5-6,Edge], [2:0-3-14,0-5-6]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.24		Vert(LL)	0.00 7	>999	240
TCDL 10.0		Lumber DOL	1.15	BC 0.03		Vert(CT)	0.00 7	>999	180
BCLL 0.0		Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00 2	n/a	n/a
BCDL 10.0		Code IRC2018/TPI2014		Matrix-MP					
								PLATES	GRIP
								MT20	197/144
								Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-3-8
 Max Horz 2=60(LC 8)
 Max Uplift 3=12(LC 12), 4=1(LC 1), 2=130(LC 8)
 Max Grav 3=21(LC 1), 4=23(LC 3), 2=282(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-10-13 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 3, 1 lb uplift at joint 4 and 130 lb uplift at joint 2.
- 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.



February 15, 2021

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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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		SUMMIT/WOODSIDE RIDGE #140/MO 144815441
JOB	J18	MONOPITCH	Ply 1 ID: gEKkeJ3K1?su6kS1RPQ3TNyVP2F-6s1nh5GBKorU1o7P6kRCdverPsgtB9Z60Mj7INzkuBp		Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:50 2021 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			-1-10-8 1-10-8 03/04/2021		

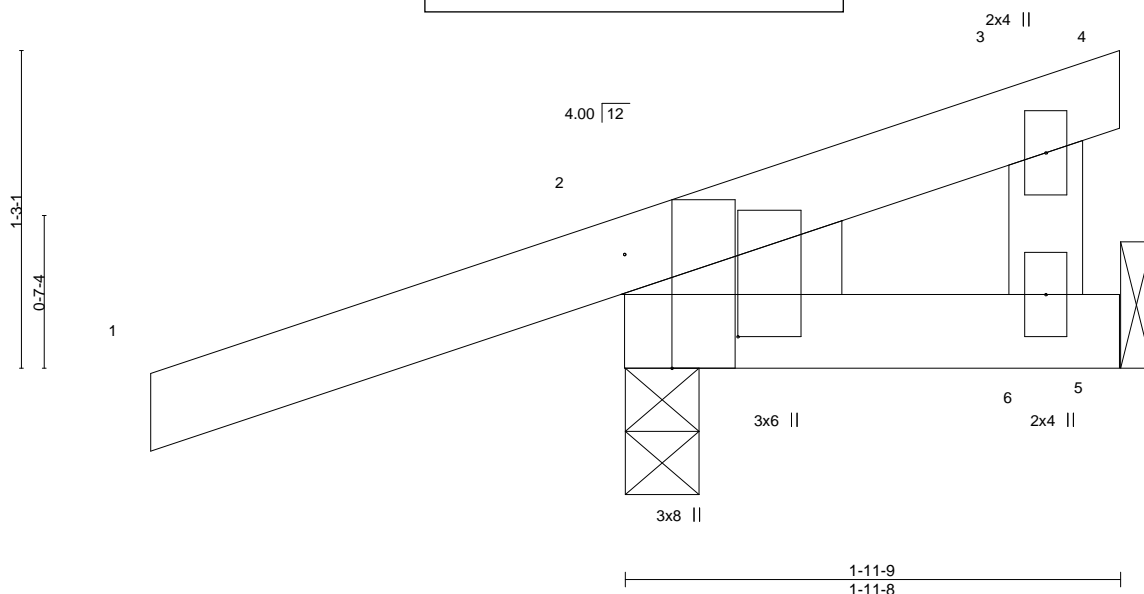


Plate Offsets (X,Y)--		[2:0-5-6,Edge], [2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.01
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 9 >999 240
			Vert(CT) -0.00 9 >999 180
			Horz(CT) -0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 9 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8
Max Horz 2=60(LC 8)
Max Uplift 5=6(LC 12), 2=129(LC 8)
Max Grav 5=41(LC 3), 2=281(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-11-8 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 5 and 129 lb uplift at joint 2.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		SUMMIT/WOODSIDE RIDGE #140/MO I44815442
JOB	J19	MONOPITCH	Ply	1	Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:51 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPO3TNyVP2F-a2b9uRGp56zLfycfRyRA6B09G??wcdGE0ShrpzkuBo		
-1-10-8 1-10-8			03/04/2021 3-11-8 3-11-8		

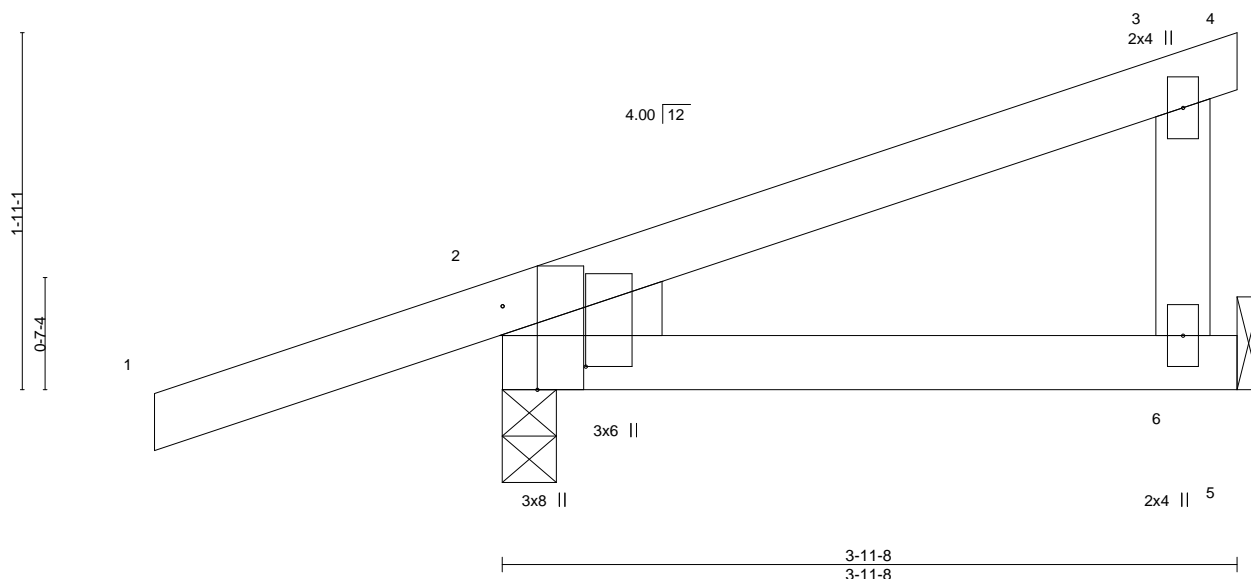


Plate Offsets (X,Y)--		[2:0-5-6,Edge], [2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24
TCDL 10.0	Lumber DOL	1.15	BC 0.10
BCLL 0.0	Rep Stress Incr	YES	WB 0.02
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 6-9 >999 240
			Vert(CT) -0.02 6-9 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 14 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=87(LC 8)
Max Uplift 2=-123(LC 8), 6=-45(LC 12)
Max Grav 2=329(LC 1), 6=144(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 3-11-8 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 45 lb uplift at joint 6.
- 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J20	MONOPITCH			1	I44815443
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:52 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNYVP2F-3E8X6nHRsQ5CG6HoD8TgiKjBvgLEf2tPTgCENGzkuBn			
-1-10-8 1-10-8			03/04/2021		3-11-8 3-11-8	

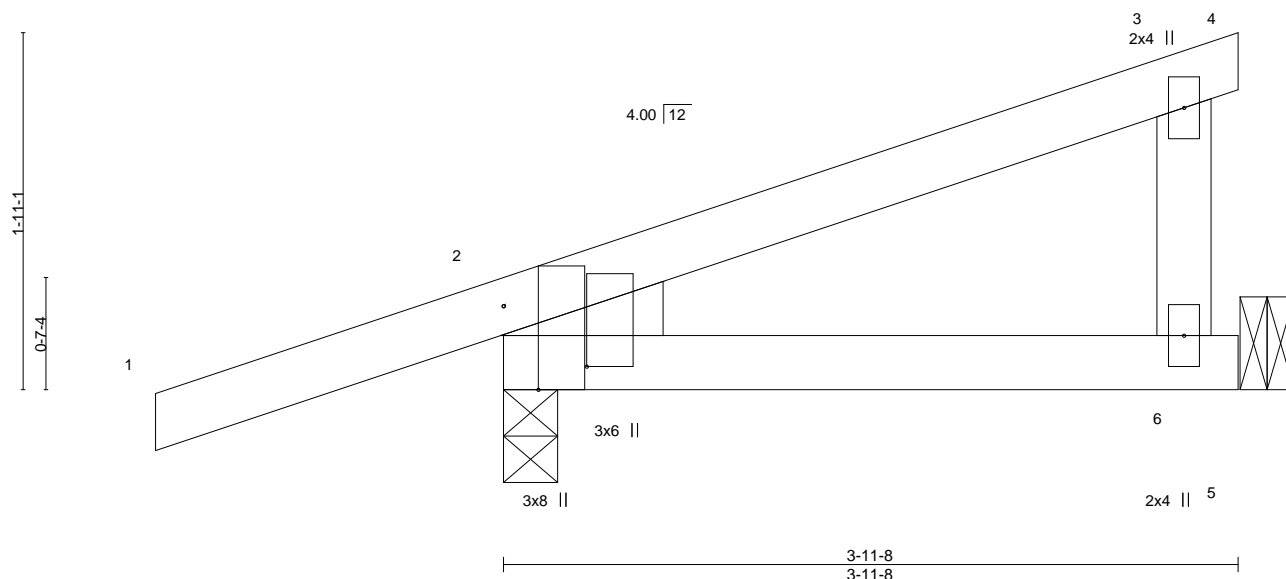


Plate Offsets (X,Y)--		[2:0-5-6,Edge], [2:0-3-14,0-5-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24
TCDL 10.0	Lumber DOL	1.15	BC 0.10
BCLL 0.0	Rep Stress Incr	YES	WB 0.02
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 6-9 >999 240
			Vert(CT) -0.02 6-9 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 14 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
 Max Horz 2=87(LC 8)
 Max Uplift 2=-123(LC 8), 6=-45(LC 12)
 Max Grav 2=329(LC 1), 6=144(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 3-11-8 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 45 lb uplift at joint 6.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J21	Jack-Open	LEE'S SUMMIT, MISSOURI	1	I44815444
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)		
			9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:53 2021 Page 1		
			ID:X_h1Y?HVzNtCEdCgmVZ0KbZ3guD-XRivJ713djD3uFs_ns?vFXG0P4g4OVOZiKxnvizkuBm		
<div> <div>-0-10-8</div> <div>0-10-8</div> </div>			<div> <div>2-3-8</div> <div>03/04/2021</div> <div>2-3-8</div> </div>		
			<div> <div>4-0-0</div> <div>1-8-8</div> </div>		

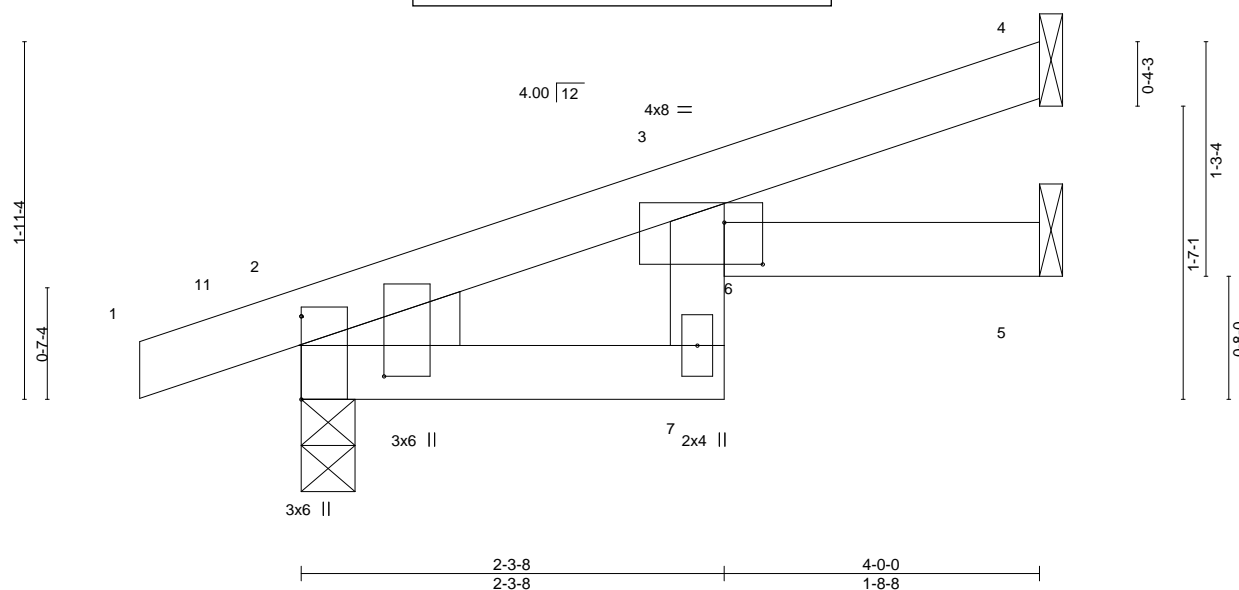


Plate Offsets (X,Y)-- [2:0-3-14,0-5-6], [3:0-2-8,0-2-12], [3:0-1-12,0-0-9], [6:0-0-0,0-1-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MR							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 2=0-3-8
 Max Horz 2=69(LC 8)
 Max Uplift 4=-39(LC 12), 5=-13(LC 12), 2=-68(LC 8)
 Max Grav 4=98(LC 1), 5=73(LC 1), 2=245(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-3, Interior(1) 2-1-3 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4, 13 lb uplift at joint 5 and 68 lb uplift at joint 2.
- 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.



February 15, 2021



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J22	Jack-Open			1	I44815445
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:54 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-?dGHWSJhO1LwWPRBLZW8nlpLU2o7yeix_hLS8zkuBI			
			-0-10-8 0-10-8		1-10-15 1-10-15	
			03/04/2021			

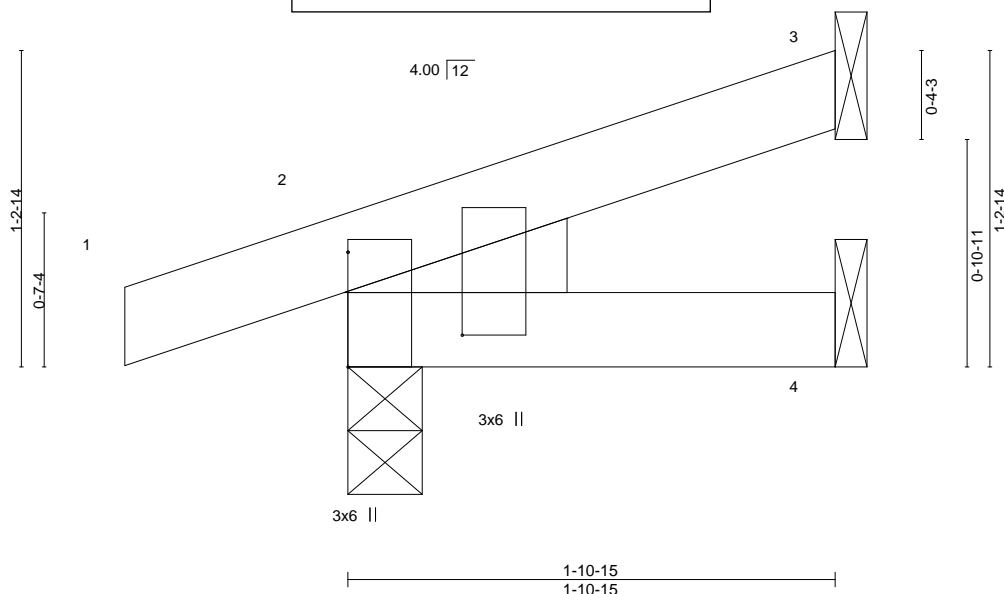


Plate Offsets (X,Y)-- [2:0-3-14,0-5-6]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-3-8
 Max Horz 2=42(LC 8)
 Max Uplift 3=-20(LC 12), 4=-4(LC 12), 2=-55(LC 8)
 Max Grav 3=46(LC 1), 4=31(LC 3), 2=161(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3, 4 lb uplift at joint 4 and 55 lb uplift at joint 2.
- 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.



February 15, 2021

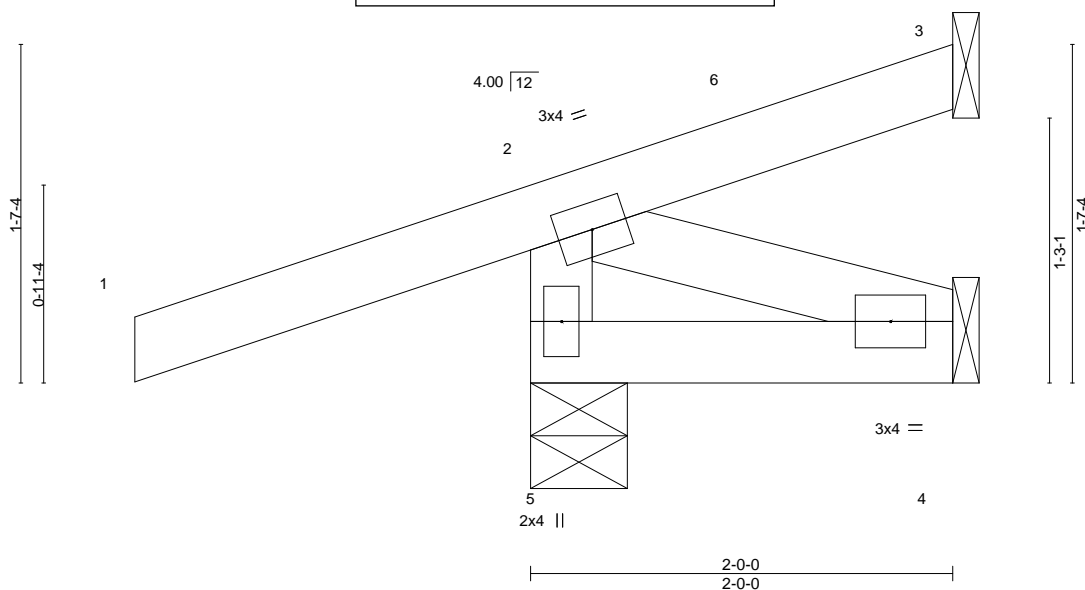
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	J23	Jack-Open	ID: X_h1Y?HVzNtCEdCgmVZOKBz3guD-?dGHWSJhO1LwWPRBLZW8nlpWmU2m7y?ix_hLS8zkuBI		1	144815446
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional)		
-1-10-8		1-10-8		9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:54 2021 Page 1		
0-11-4		0-11-4		03/04/2021		
2-0-0		2-0-0		Scale = 1:10.9		
2-0-0		2-0-0				



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 0.28	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 0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 5=0-5-8, 4=Mechanical
Max Horz 5=62(LC 8)
Max Uplift 3=13(LC 1), 5=131(LC 8), 4=15(LC 8)
Max Grav 3=23(LC 8), 5=302(LC 1), 4=37(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-284/236

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-11-14 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 3, 131 lb uplift at joint 5 and 15 lb uplift at joint 4.
- 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.



February 15, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	JG1	Jack-Closed Girder			1	I44815447
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:00 2021 Page 1 ID: gEKkeJ3K1?su6kS1RPQ8TNyVP2F-qndZnWNS_t63EKuKhqdY103a1uyRWb1bJw8ffozkuBf		
		3-0-0		6-0-0		
		3-0-0		3-0-0		

Scale = 1:18.1

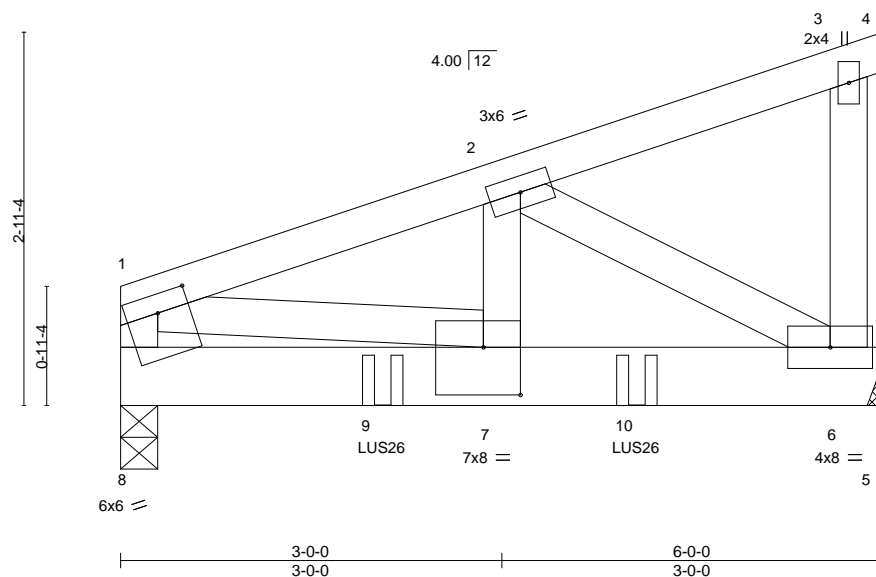


Plate Offsets (X,Y)--		[7:0-3-8,0-4-8], [8:0-3-0,0-1-12], [8:0-1-11,0-0-9]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(LL) -0.02 7-8 >999 240
BCLL 0.0	Rep Stress Incr NO	WB 0.33	Vert(CT) -0.03 7-8 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.00 6 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 28 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 6=Mechanical
 Max Horz 8=108(LC 7)
 Max Uplift 8=187(LC 4), 6=222(LC 8)
 Max Grav 8=988(LC 1), 6=1070(LC 1)

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

TOP CHORD 1-8=-797/163, 1-2=-1393/261
 BOT CHORD 6-7=-264/1301
 WEBS 1-7=-236/1329, 2-7=-161/955, 2-6=-1497/321

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 8 and 222 lb uplift at joint 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.
- Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-70, 3-4=-20, 5-8=-20
 Concentrated Loads (lb)
 Vert: 9=-769(B) 10=-775(B)



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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	L1	GABLE			1	I44815448
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020		Job Reference (optional)
				ID: X_h1Y?HVzNtCEdCgmvZOkBz3guD-lzBx_sO5iBEwsUTXFX8naDbmGIR7F5OkYZtCBEzkuBe		9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:01 2021 Page 1
				9-11-3 9-11-3		19-10-7 9-11-3
				03/04/2021		
				4x4 =		Scale = 1:63.2

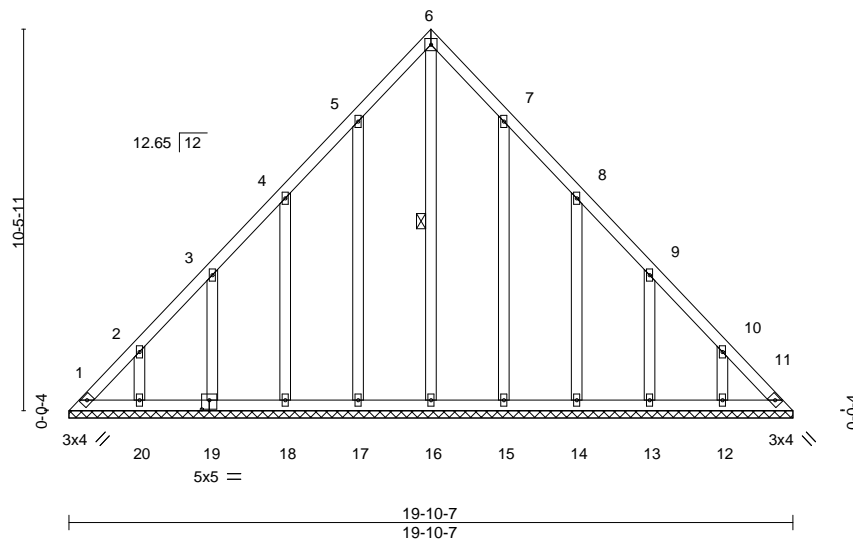


Plate Offsets (X, Y)--		[19:0-2-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.05
BCLL 0.0	Rep Stress Incr	YES	WB 0.19
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
		DEFL.	in (loc)
		Vert(LL)	n/a - n/a
		Vert(CT)	n/a - n/a
		Horz(CT)	0.01 11 n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 108 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS.

All bearings 19-10-7.
(lb) - Max Horz 1=268(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=127(LC 10), 17=130(LC 12), 18=135(LC 12),
19=134(LC 12), 20=133(LC 12), 15=127(LC 13), 14=136(LC 13), 13=131(LC 13), 12=131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17, 18, 19, 20, 15, 14, 13, 12 except 1=258(LC 12)

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

TOP CHORD 1-2=-373/233, 2-3=-256/189, 10-11=-327/221
BOT CHORD 1-20=-169/251, 19-20=-169/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 9-11-3, Exterior(2R) 9-11-3 to 12-11-3, Interior(1) 12-11-3 to 19-6-6 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=127, 17=130, 18=135, 19=134, 20=133, 15=127, 14=136, 13=131, 12=131.
- 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.



February 15, 2021

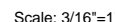
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Weight: 110 lb FT = 20%

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 10-0-12, Exterior(2R) 10-0-12 to 13-0-12, Interior(1) 13-0-12 to 19-9-7 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
- 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) 11 except (jt=lb) 1=122, 17=129, 18=135, 19=128, 20=136, 15=127, 14=136, 13=130, 12=137.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	L3	GABLE	<div style="text-align: center;"> 03/04/2021 </div>		1	I44815450
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:03 2021 Page 1 ID: gEKkeJ3K1?su6kS1RPQ3TNyVP2F-EMJhPXLHoUe5odvMyAFfeh5X657j?H1?IMJG7zkuBc		Job Reference (optional)

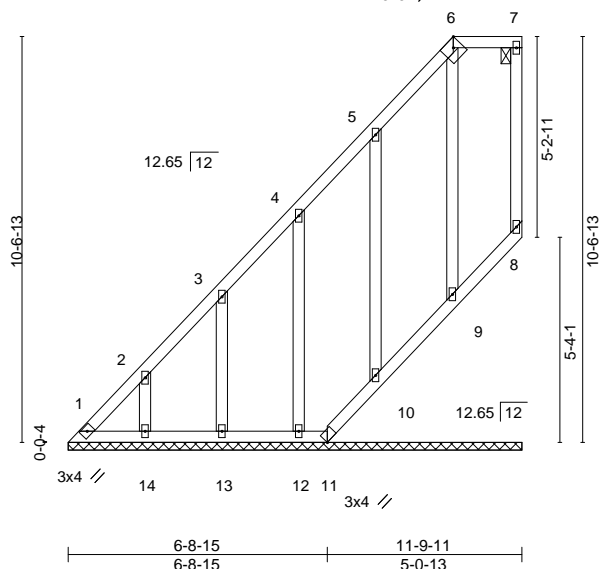


Plate Offsets (X,Y)--		[6:0-2-9,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15
TCDL 10.0	Lumber DOL	1.15	BC 0.08
BCLL 0.0	Rep Stress Incr	YES	WB 0.17
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 8 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 68 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

REACTIONS.

All bearings 11-9-11.
 (lb) - Max Horz 1=322(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 11, 9 except 1=143(LC 10), 14=134(LC 12), 13=131(LC 12), 12=133(LC 12), 10=140(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 8, 11, 14, 13, 12, 10, 9 except 1=346(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=614/589, 2-3=504/486, 3-4=386/378, 4-5=273/275

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 10-0-4, Exterior(2E) 10-0-4 to 11-7-15 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 11, 9 except (jt=lb) 1=143, 14=134, 13=131, 12=133, 10=140.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 10, 9.
- 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.



February 15, 2021

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

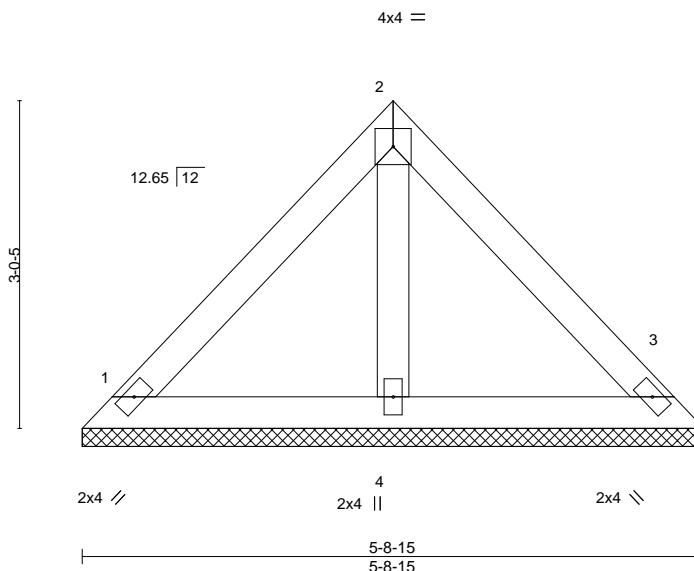
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	L4	GABLE			1	I44815451
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:04 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-iY13dtQz16cVjyC6wghUBrDGkWSjSUrAEX6toZzkuBb		
		2-10-7 2-10-7		5-8-15 2-10-7		

Scale = 1:21.3



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-8-15, 3=5-8-15, 4=5-8-15
 Max Horz 1=-71(LC 8)
 Max Uplift 1=-39(LC 13), 3=-36(LC 13)
 Max Grav 1=140(LC 1), 3=140(LC 1), 4=176(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



February 15, 2021

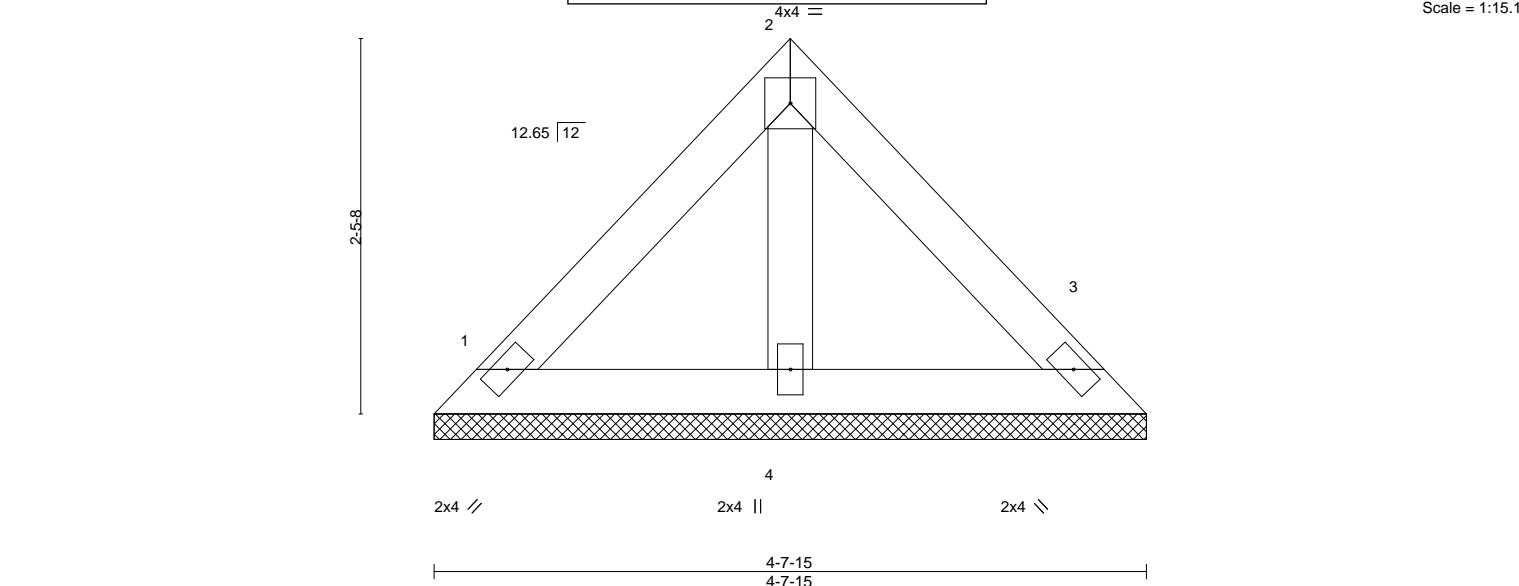
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	L5	Lay-In Gable			1	I44815452
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:05 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmvZOkBz3guD-AkRSqDRboPkMK5nIUNCjk3mREvoHBxBKSBrQK?zkuBa		
		2-3-15 2-3-15		4-7-15 2-3-15		Job Reference (optional)



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 14 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 4-7-15 oc purlins.
BOT CHORD	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2			

REACTIONS.	(size) 1=4-7-15, 3=4-7-15, 4=4-7-15
	Max Horz 1=-56(LC 8)
	Max Uplift 1=-30(LC 13), 3=-28(LC 13)
	Max Grav 1=110(LC 1), 3=110(LC 1), 4=138(LC 1)

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

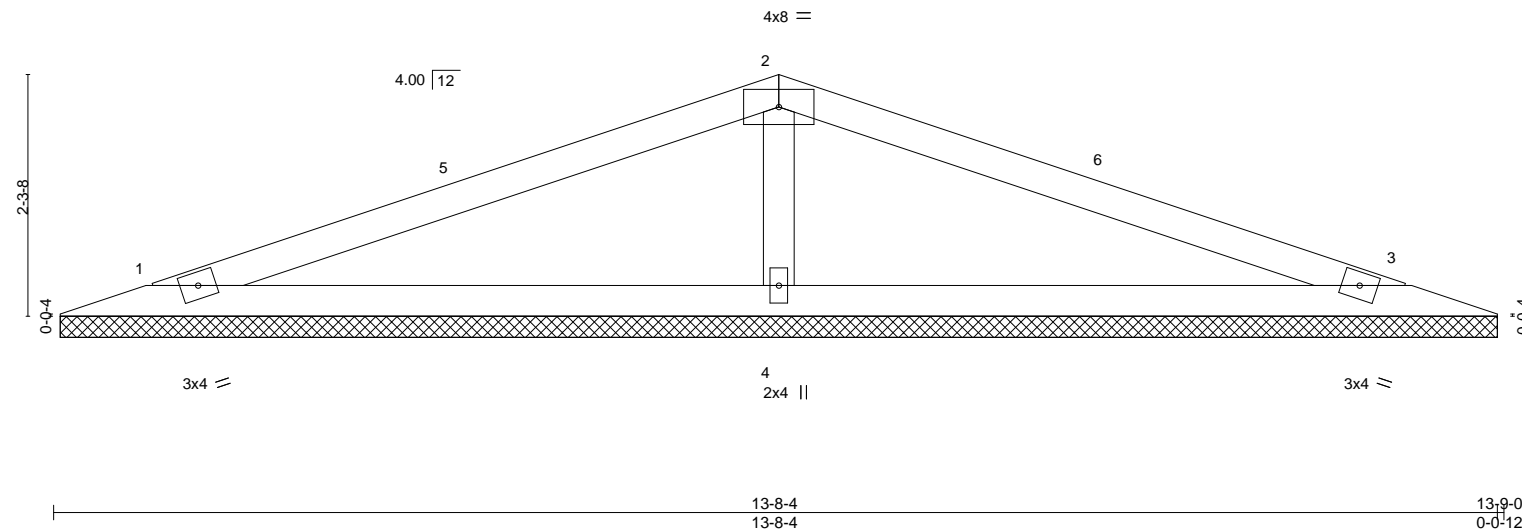
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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.



February 15, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021 </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO I44815453 Job Reference (optional)
JOB	V1	Valley			1	9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:06 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmvZ0kBz3guD-ex?q2ZSDZjsDyFMU25kyHGIW9J4WwOgThrbztSzkBZ
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		6-10-8 6-10-8		13-9-0 6-10-8

Scale = 1:21.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCCL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a				
BCCL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 32 lb		FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS. (size) 1=13-7-8, 3=13-7-8, 4=13-7-8
 Max Horz 1=35(LC 16)
 Max Uplift 1=-58(LC 8), 3=-62(LC 13), 4=-83(LC 8)
 Max Grav 1=237(LC 25), 3=237(LC 26), 4=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-432/236

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 6-10-8, Exterior(2R) 6-10-8 to 9-10-8,
 Interior(1) 9-10-8 to 12-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces
 & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



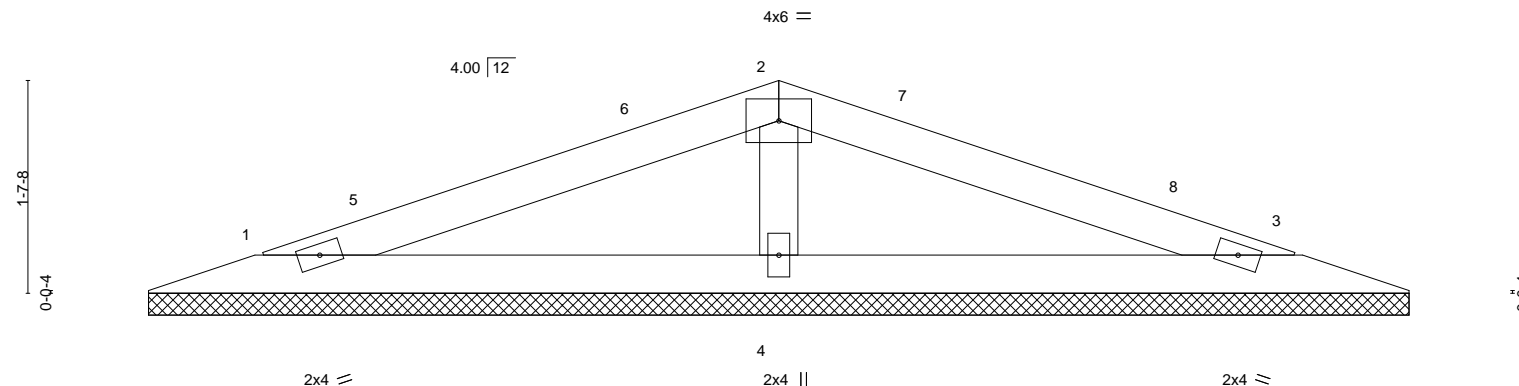
February 15, 2021

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

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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	V2	Valley			1	I44815454
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020		MiTek Industries, Inc. Mon Feb 15 12:51:07 2021 Page 1
		4-10-8		ID: X_h1Y?HVzNtEdCgmvZOkBz3guD-67ZCFvTrK1_4aPwgboFBpUrlcjSHfrFdwVKXPuzkuBY		Job Reference (optional)
		4-10-8		03/04/2021		9-9-0
						4-10-8

Scale = 1:17.6



0-0-12	4-10-8	9-9-0
0-0-12	4-9-12	4-10-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20
TCCL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999	197/144
BCCL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a	
BCCL 10.0	Code IRC2018/TPI2014		Matrix-S						
									Weight: 22 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=9-7-8, 3=9-7-8, 4=9-7-8
 Max Horz 1=-23(LC 13)
 Max Uplift 1=-39(LC 8), 3=-41(LC 13), 4=-55(LC 8)
 Max Grav 1=157(LC 25), 3=157(LC 26), 4=405(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-286/222

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 4-10-8, Exterior(2R) 4-10-8 to 7-10-8, Interior(1) 7-10-8 to 8-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



February 15, 2021

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 Chesterfield, MO 63017

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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 1=7-9-4, 4=7-9-4, 5=7-9-4
 Max Horz 1=100(LC 9)
 Max Uplift 1=-1(LC 12), 4=-30(LC 8), 5=-106(LC 8)
 Max Grav 1=80(LC 1), 4=139(LC 1), 5=383(LC 1)

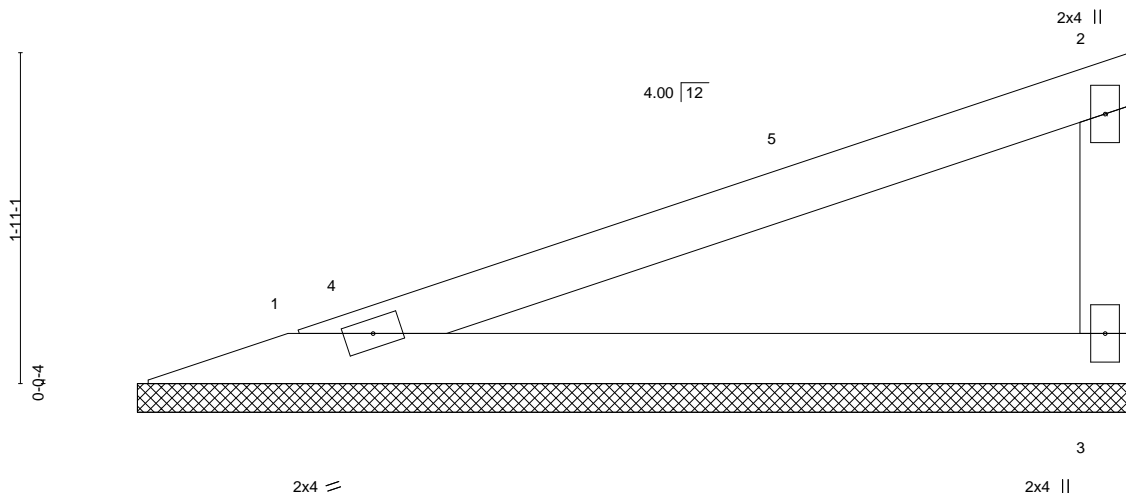
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-298/274

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-9-4, Interior(1) 3-9-4 to 7-7-8 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
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=106.
 - 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.



February 15, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815456
JOBS	V4	Valley	ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-bJ6aFTU5K6xBZVt9WmQMhOt57m_OI6m9944xKzkuBX 03/06/2021		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:08 2021 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					



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 0.42	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-9-4, 3=5-9-4
Max Horz 1=70(LC 9)
Max Uplift 1=43(LC 8), 3=53(LC 12)
Max Grav 1=211(LC 1), 3=211(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 5-7-8 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



February 15, 2021

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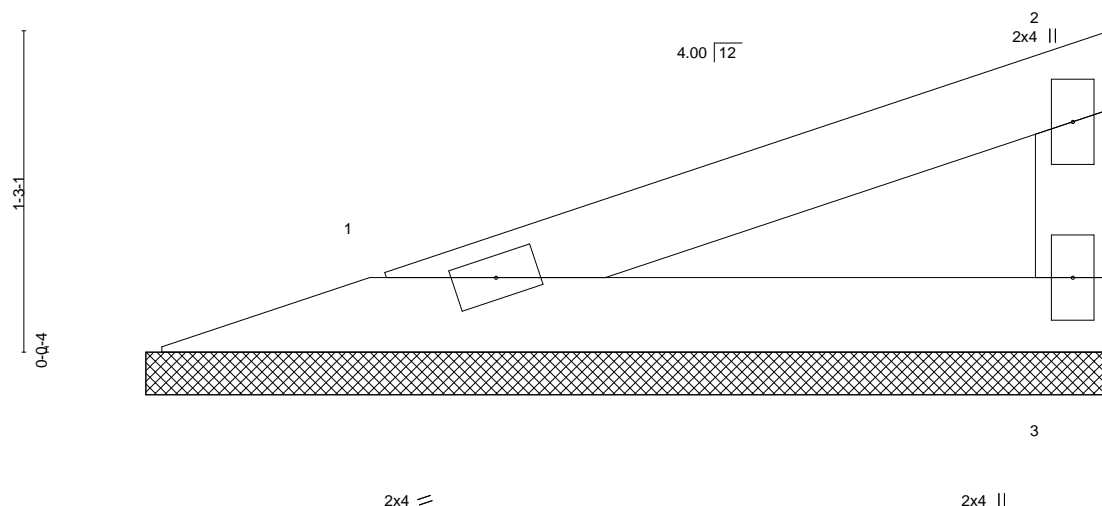
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Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOB	V5	Valley	<div style="text-align: center;"> 03/06/2021 3-9-4 </div>		1	I44815457
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:09 2021 Page 1 ID: X_h1Y?HVzNtCEdCgmVZOkBz3guD-3WgygbU6seEopj43jDHfuwv7OX8i7IMvNpPeTnzkuBW		

Scale = 1:9.0



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 0.12	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-9-4, 3=3-9-4
 Max Horz 1=40(LC 9)
 Max Uplift 1=24(LC 8), 3=31(LC 12)
 Max Grav 1=121(LC 1), 3=121(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



February 15, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



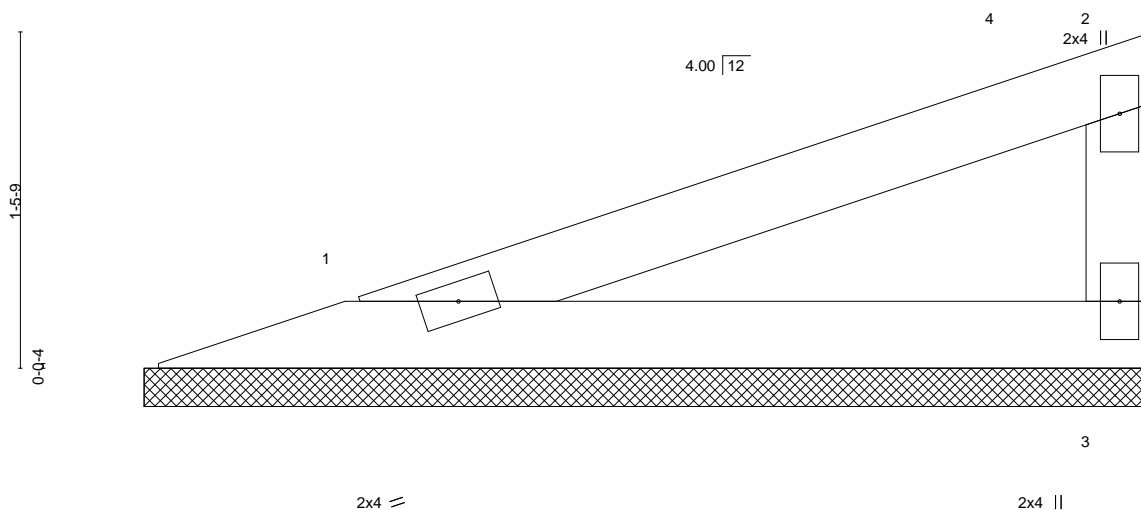
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins: 2-3.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SPF No.2		

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

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Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815459
JOBS	V7	Valley	ID: X_h1Y?HVzNtCEdCgmVZ0kBz3guD-XiELtxVkdYMeRtffHwouR6TG1wUKsBc3cTZB0DzkuBV 03/04/2021		Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:10 2021 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					



Scale = 1:10.0

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 0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999	197/144
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-P						
								Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-4-12, 3=4-4-12
Max Horz 1=50(LC 9)
Max Uplift 1=30(LC 8), 3=38(LC 12)
Max Grav 1=149(LC 1), 3=149(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 4-3-0 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



February 15, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	SUMMIT/WOODSIDE RIDGE #140/MO
JOBS	V8	Valley	<div style="text-align: center;"> 03/09/2021 2-6-4 </div>		1	I44815460
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID: X_h1Y?HVzNtCedCgmVZDKBz3guD-?uoj5HWMOFUV20ESqeJ7_K0UKKrybesCr7IkYfzkuBU 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:11 2021 Page 1		Job Reference (optional)

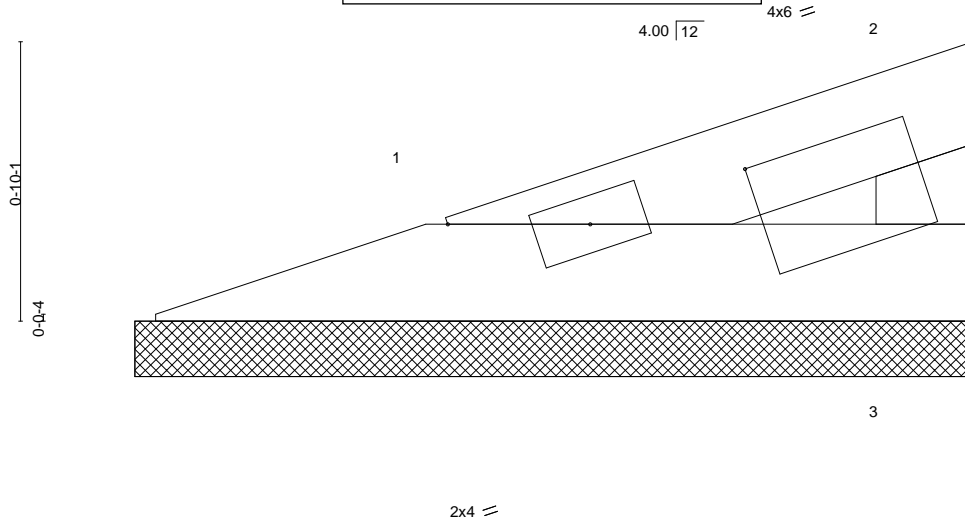


Plate Offsets (X,Y)--		[2:0-1-14,0-0-0], [2:0-10-13,0-1-8], [3:0-1-11,0-0-9]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.03		Vert(LL)	n/a -	n/a	999
TCDL 10.0		Lumber DOL	1.15	BC 0.02		Vert(CT)	n/a -	n/a	999
BCLL 0.0		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a
BCDL 10.0		Code IRC2018/TPI2014		Matrix-P					
						PLATES	GRIP		
						MT20	197/144		
						Weight: 5 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 1=2-6-4, 3=2-6-4
 Max Horz 1=22(LC 9)
 Max Uplift 1=13(LC 8), 3=16(LC 12)
 Max Grav 1=65(LC 1), 3=65(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 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.

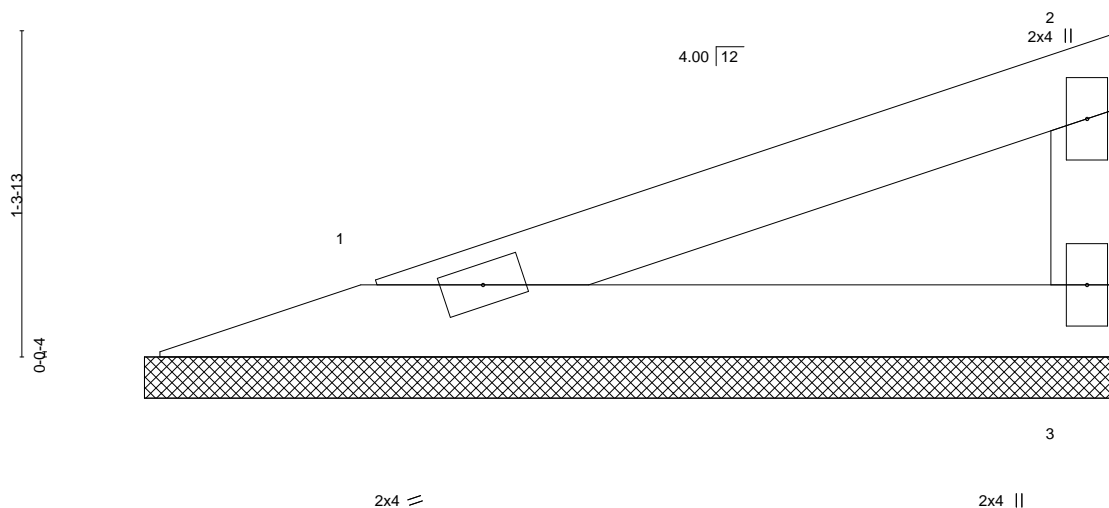


February 15, 2021

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		SUMMIT/WOODSIDE RIDGE #140/MO 144815461
JOBS	V9	Valley	Ply 1 ID: X_h1Y?HVZNIEdCgmvZ0kBz3guD-?uoJ5HWMOFUV20ESqeJ7_K0SaKq?besCr7IKYfzkuBU		Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:11 2021 Page 1		



Scale = 1:9.3

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 0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999	197/144
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-P						
								Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-11-8, 3=3-11-8
Max Horz 1=43(LC 9)
Max Uplift 1=26(LC 8), 3=33(LC 12)
Max Grav 1=129(LC 1), 3=129(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



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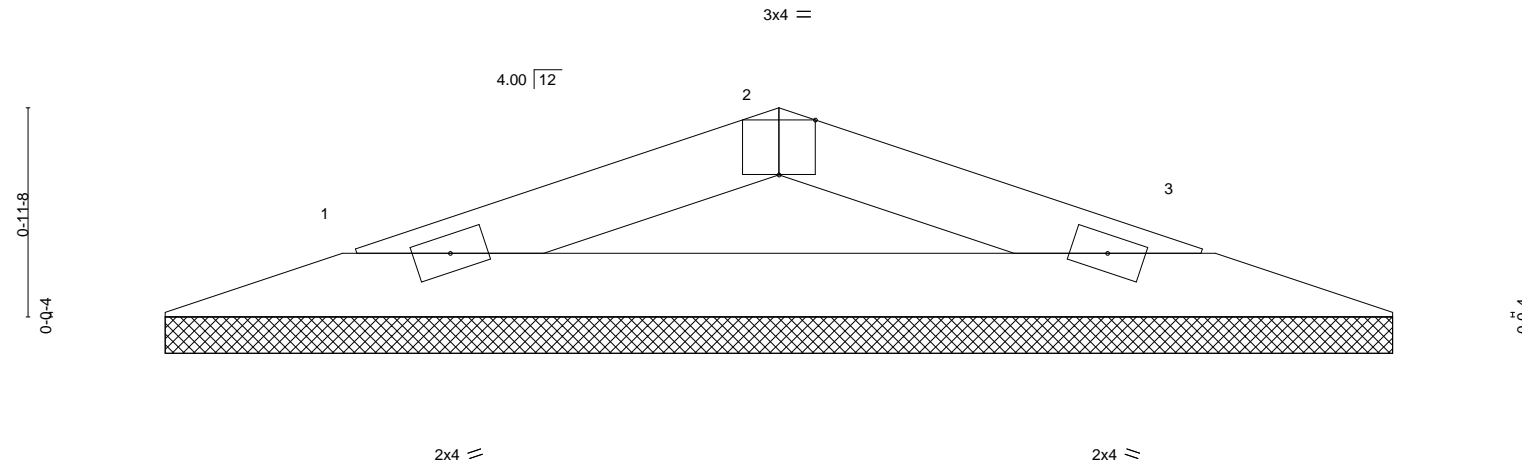
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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2021		SUMMIT/WOODSIDE RIDGE #140/MO I44815462 Job Reference (optional) 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:06 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmVZOkBz3guD-ex?q2ZSDZjsDyFMU25kyHGlcZJ6XwOcThrbztSzkUBZ
JOBS	V10	Valley	Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-10-8 2-10-8		2-10-8 2-10-8

Scale = 1:10.6



0-0-12 0-0-12		5-9-0 5-8-4	
Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 3 n/a n/a
		PLATES MT20	
		GRIP 197/144	
		Weight: 11 lb FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-7-8, 3=5-7-8
Max Horz 1=12(LC 16)
Max Uplift 1=32(LC 8), 3=32(LC 9)
Max Grav 1=174(LC 1), 3=174(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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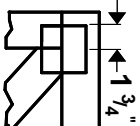
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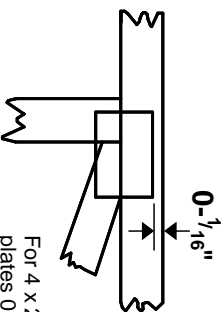
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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



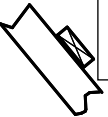
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE
4 X 4

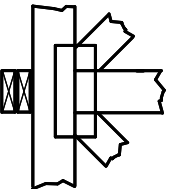
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



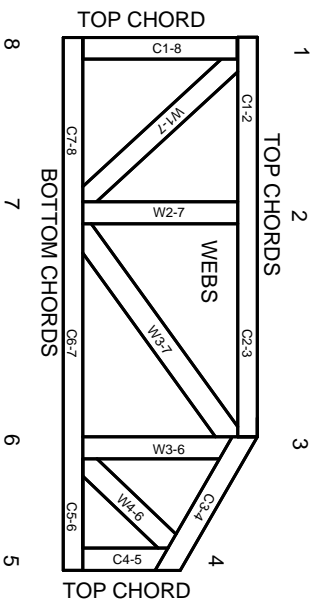
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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.