



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

Re: 2846773

Summit/28 Woodside

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

Pages or sheets covered by this seal: I46777155 thru I46777203

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

Missouri COA: Engineering 001193



June 29,2021

Sevier, Scott

,Engineer

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

Job Truss Truss Type Qty Ply Summit/28 Woodside 146777155 2846773 Α1 HIP GIRDER 2 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:00 2021 Page 1

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

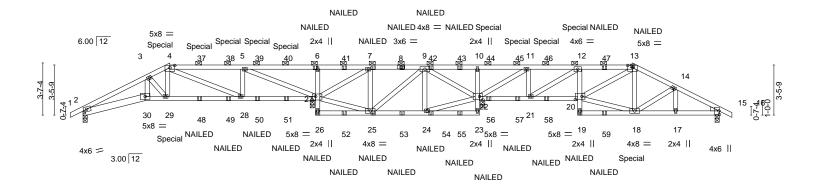
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

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

6-0-0 oc bracing: 25-26,24-25,23-24.

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-BpiwzZGhONmHJ2AmLuUrOCpo7mM1EwK6YwL04Pz1iif 40-11-13 44-0-0 44-10₁8 2-11-13 3-0-3 0-10-8 27-5-0 3-9-5 38-0-0 3-9-8

Scale = 1:79.7



	4-3		15-8 4-8			7-5-0 27 ₋ 9-8 30-9- -9-5 0-4-8 3-0-		38-0-0 40-11-13 3-9-8 2-11-13	3-0-3
Plate Offse	ets (X,Y)	[2:0-2-8,0-2-0], [4:0-4-0,0)-1-15], [13:0-4	-0,0-1-15], [20:0-5-8,0-2	-8], [22:0-2-12,0-2-	12], [27:0-2-12,	0-3-0]		
LOADING TCLL TCDL	(psf) 25.0 20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.64 BC 0.48	DEFL. Vert(LL) Vert(CT)	in (loc) -0.05 29 -0.11 28-29	l/defl L/d >999 240 >999 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	NO Pl2014	WB 0.47 Matrix-MS	Horz(CT)	0.07 15	n/a n/a	Weight: 389 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-30: 2x6 SPF No.2

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=52(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-288(LC 8), 27=-686(LC 8),

22=-660(LC 9), 15=-294(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=1299(LC 21), 27=3060(LC

21), 22=3071(LC 22), 15=1371(LC 22)

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

TOP CHORD 2-3=-3199/780, 3-4=-2710/713, 4-5=-1614/427, 5-6=-412/1790, 6-7=-417/1823,

7-9=-115/463, 9-10=-356/1810, 10-11=-360/1816, 11-12=-780/230, 12-13=-2289/584,

13-14=-2047/511, 14-15=-2096/481

BOT CHORD 2-30=-691/2812, 29-30=-667/2718, 28-29=-587/2430, 27-28=-360/1609, 6-27=-736/251,

24-25=-452/188, 10-22=-628/206, 21-22=-150/780, 20-21=-466/2315, 12-20=-0/289,

17-18=-371/1799, 15-17=-371/1799

WEBS 3-30=-93/444, 3-29=-346/98, 4-29=-204/839, 4-28=-898/249, 5-28=-46/447,

5-27=-3684/908, 25-27=-407/173, 7-27=-1607/353, 7-25=0/367, 9-24=0/361.

22-24=-391/163, 9-22=-1610/332, 11-22=-3044/691, 11-21=-175/989, 12-21=-1801/414,

18-20=-356/1724, 13-20=-155/597

NOTES-

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 3x4 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.

Continued on page 2



June 29,2021



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

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

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

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	A1	HIP GIRDER	1	2	Job Reference (optional)	146777155

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:00 2021 Page 2

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-BpiwzZGhONmHJ2AmLuUrOCpo7mM1EwK6YwL04Pz1iif

- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 2, 686 lb uplift at joint 27, 660 lb uplift at joint 22 and 294 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 200 lb down and 96 lb up at 6-0-0, 176 lb down and 96 lb up at 8-0-12, 176 lb down and 96 lb up at 10-0-12, 176 lb down and 96 lb up at 12-0-12, 176 lb down and 96 lb up at 14-0-12, 176 lb down and 96 lb up at 28-0-12, 176 lb down and 96 lb up at 30-0-12, and 176 lb down and 96 lb up at 32-0-12, and 176 lb down and 96 lb up at 34-0-12 on top chord, and 401 lb down and 159 lb up at 6-0-0, and 458 lb down and 150 lb up at 37-11-4 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=-90, 4-13=-90, 13-16=-90, 30-31=-20, 27-30=-20, 23-26=-20, 20-22=-20, 19-34=-20

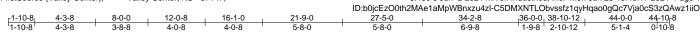
Concentrated Loads (lb)

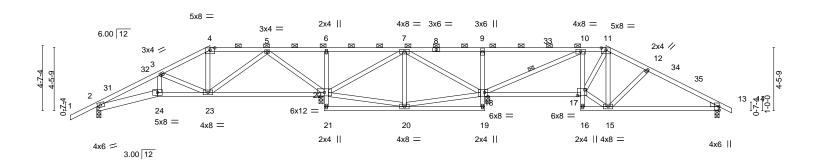
Vert: 4=-176(B) 8=-114(B) 27=-59(B) 6=-114(B) 12=-176(B) 29=-401(B) 25=-59(B) 7=-114(B) 13=-114(B) 18=-458(B) 37=-176(B) 38=-176(B) 39=-176(B) 40=-176(B) 41=-114(B) 42=-114(B) 43=-114(B) 43=-176(B) 45=-176(B) 45=-176(B) 47=-114(B) 52=-59(B) 53=-59(B) 54=-59(B) 55=-59(B) 55=-59(B

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/28 Woodside 146777156 HIP 2846773 A2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:17 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Scale = 1:81.4





		4-3-8 8-0-0 4-3-8 3-8-8	15-8-8 7-8-8	16-1-0 0-4-8	21-9-0 5-8-0	27-5 5-8-		34-2-8	36-0-0 ₁	44-0-0	
Plate Offsets		[2:0-2-8,0-2-0], [4:0-4-0,0						6-5-0	1-9-0	8-0-0	
1.000	, (, , , ,			0,00], [.,0	10.0 2 .2,20	9-1				
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC 0.8	0	Vert(LL)	-0.11 22-23	>999	240	MT20	197/144
TCDL 2	0.0	Lumber DOL	1.15	BC 0.5	В	Vert(CT)	-0.23 22-23	>857	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.6	3	Horz(CT)	0.06 13	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	PI2014	Matrix-AS						Weight: 197 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-BRACING-

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

2-24: 2x6 SPF No.2

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=84(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-137(LC 12), 22=-264(LC 12),

18=-245(LC 13), 13=-140(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=890(LC 25), 22=1779(LC

25), 18=1609(LC 26), 13=884(LC 26)

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

TOP CHORD 2-3=-1560/243, 3-4=-868/138, 4-5=-725/147, 5-6=-93/842, 6-7=-81/830, 7-9=-22/523,

9-10=-17/481, 10-11=-960/201, 11-12=-869/184, 12-13=-1163/212

2-24=-224/1340, 23-24=-214/1288, 6-22=-456/128, 9-18=-594/166, 17-18=-53/1015, **BOT CHORD**

13-15=-113/966

WEBS 3-24=-26/258, 3-23=-619/171, 5-23=-67/672, 5-22=-1286/234, 7-22=-841/123,

7-18=-532/114, 10-18=-1625/220, 15-17=0/846, 11-17=-68/487, 12-15=-352/125

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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 12-0-8, Interior(1) 12-0-8 to 36-0-0, Exterior(2R) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 44-10-8 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 264 lb uplift at joint 22, 245 lb uplift at joint 18 and 140 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 29,2021

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Job Truss Truss Type Qty Summit/28 Woodside 146777157 HIP 2846773 **A3** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:19 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-8TL6y3VbwC9a5y7PyNKIfD5_vQobBOLvwNSWFpz1iiM

24-10-12

5-11-8

27-10-8

2-11-12

34-0-0

6-1-8

Scale = 1:81.1

0-10-8

44-0-0

5-0-3

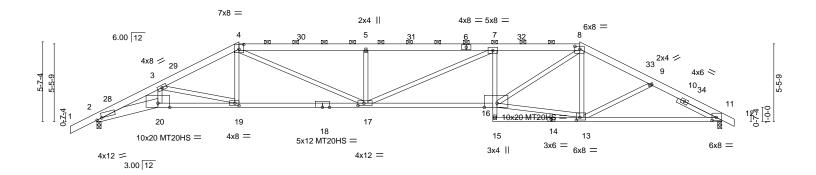
38-11-13

4-11-13

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.



		-0-0 1	5-11-8	18-11-4	21-11-0	27-	10-8		34-0-0	44-0-0	
	4-3-8 5-	8-8	5-11-8	2-11-12	2-11-12	5-1	1-8	1	6-1-8	10-0-0	<u> </u>
Plate Offsets (X,Y)	[2:0-4-4,Edge], [4:0	-4-0,0-4-0], [8:0-4-	4,0-2-8], [11:0)-3-8,0-2-8]	, [13:0-3-0	0,0-2-4], [1	6:0-10-12,I	Edge], [1	7:0-5-0,0-2-0], [19:0-3-8,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.			DEFL.	in (l	oc) I/	defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip D	OL 1.15	TC	0.92	'	Vert(LL)	-0.45 16	-17 >9	999 240	MT20	197/144
TCDL 20.0	Lumber DOI	_ 1.15	BC	0.67	'	Vert(CT)	-1.07 16·	-17 >4	190 180	MT20HS	148/108
BCLL 0.0	Rep Stress	ncr YES	WB	0.96		Horz(CŤ)	0.37	11	n/a n/a		
BCDL 10.0	Code IRC20	018/TPI2014	Matr	ix-AS		. ,				Weight: 234 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SP 2400F 2.0E *Except*

2-20: 2x8 SP 2400F 2.0E, 7-15,14-15: 2x4 SPF No.2

5-8-8

2-11-12

5-11-8

2x4 SPF No.2 WEBS

-1-10-8 1-10-8

SLIDER Right 2x4 SPF No.2 3-0-0

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

Max Horz 2=100(LC 12)

Max Uplift 2=-303(LC 12), 11=-284(LC 13) Max Grav 2=2583(LC 1), 11=2501(LC 1)

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

TOP CHORD 2-3=-7356/818, 3-4=-5180/558, 4-5=-6494/769, 5-7=-6492/768, 7-8=-6005/704,

8-9=-4112/458, 9-11=-4305/510

BOT CHORD 2-20=-756/6627, 19-20=-729/6362, 17-19=-457/4603, 16-17=-613/6084, 7-16=-969/241,

13-15=-45/266, 11-13=-372/3780

WEBS 3-20=-114/1326, 3-19=-1794/302, 4-19=-17/672, 13-16=-262/3441, 8-16=-398/2850,

8-13=-389/134, 5-17=-885/243, 7-17=-219/577, 4-17=-357/2227

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15. Interior(1) 14-2-15 to 34-0-0, Exterior(2R) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 2 and 284 lb uplift at joint 11.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 29,2021



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Job Truss Truss Type Qty Summit/28 Woodside 146777158 2846773 A4 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:21 2021 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-4sTsNIWsSqPILGHo3oMmkeBNSEQtfNHCNhxdJhz1iiK

44-0-0 42-4₁0 44-10₁8 0-7-8 1-8-0 0-10-8

Structural wood sheathing directly applied, except

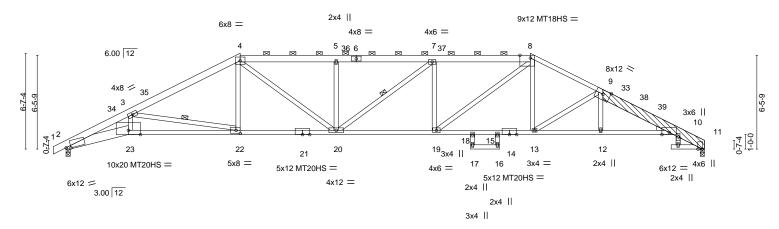
3-22, 7-20

2-0-0 oc purlins (2-10-0 max.): 4-8.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:79.4



Dieta Offe	4-3-	-8	12-0-0 7-8-8		18-7-7 6-7-7	19-11-4 1-3-13	25-4-9 5-5-5		10-8 32-0-0 0-0 2-1-8	36-10-4 4-10-4	41-8-8 4-10-4	44-0-0 42-4 ₁ 0 0-7-8 1-8-0
Plate Offs	ets (X,Y)	[2:0-4-0),0-1-1], [8:0-8-10,	Eagej, [22	::0-3-8,0-2-8]							
LOADING	· /		SPACING-	2-0-0	CSI.		DEFL.	in (loc	,	L/d	PLATES	GRIP
TCLL	25.0		Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.42 19-2		240	MT20	197/144
TCDL	20.0		Lumber DOL	1.15 YES	BC	0.93	Vert(CT)	-0.94 19-2		180	MT20HS MT18HS	148/108
BCLL BCDL	0.0 10.0		Rep Stress Incr Code IRC2018/TF		WB Matri:	0.68	Horz(CT)	0.52 1	1 n/a	n/a	Weight: 255 lb	197/144 FT = 20%
DODL	10.0		500e INC2010/1F	12014	iviatri	x-40					weight. 255 ii	J F1 = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

8-9: 2x4 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-23: 2x8 SP 2400F 2.0E, 14-21,10-14: 2x4 SPF 1650F 1.5E

21-23: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 **OTHERS** 2x8 SP 2400F 2.0E

LBR SCAB 9-11 2x8 SP 2400F 2.0E one side

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=108(LC 16)

Max Uplift 2=-184(LC 12), 11=-163(LC 13) Max Grav 2=2492(LC 1), 11=2416(LC 1)

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

2-3=-7587/736, 3-4=-4781/484, 4-5=-5135/558, 5-7=-5133/557, 7-8=-5146/568, TOP CHORD

8-9=-4601/491, 9-10=-5462/541, 10-11=-1070/126

BOT CHORD 2-23=-636/6867, 22-23=-621/6589, 20-22=-365/4193, 19-20=-452/5138, 18-19=-276/4029,

15-18=-287/3947, 13-15=-276/4029, 12-13=-427/5069, 10-12=-429/5063 3-23=-55/1410, 3-22=-2422/387, 4-22=-14/648, 8-13=-50/701, 7-19=-818/212,

8-19=-248/1546, 5-20=-631/176, 4-20=-235/1360, 9-13=-1178/199

NOTES-

WEBS

1) Attached 8-1-3 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-15 from end at joint 9, nail 2 row(s) at 4" o.c. for 3-9-7; starting at 3-9-5 from end at joint 9, nail 2 row(s) at 2" o.c. for 2-7-13.

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 12-0-0, Exterior(2R) 12-0-0 to 18-2-11, Interior(1) 18-2-11 to 32-0-0, Exterior(2R) 32-0-0 to 38-2-11, Interior(1) 38-2-11 to 43-10-4 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

- 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) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 163 lb uplift at joint 11.





PO IT SIONAL

OF MISS

SCOTT M.

SEVIER

PE-2001018807

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	Λ.4	Hip	1	1		146777158
2040773	A4	HIP 	1	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:21 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-4sTsNIWsSqPILGHo3oMmkeBNSEQtfNHCNhxdJhz1iiK

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Summit/28 Woodside 146777159 2846773 A5 Hip Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:23 2021 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-0FbdoQY6_Rf0aaRABDOEq3GhZ1507DRUr?QkOaz1iil 44-0-0

Structural wood sheathing directly applied, except

7-18, 10-14

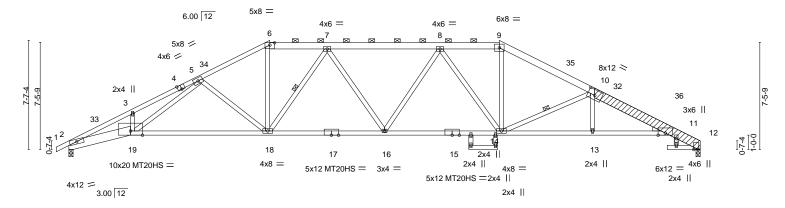
2-0-0 oc purlins (2-9-13 max.): 6-9.

Rigid ceiling directly applied.

1 Row at midpt

42-4₁0 44-10₁8 0-7-81-8-00-10-8

Scale = 1:80.3



					30-	0-0		44-0-0	
ı	4-3-8	14-0-0	22-0-0	27-10-8	29-10-8	36-6-0	1 41-8-8	42-4 ₁ 0	
ı	4-3-8	9-8-8	8-0-0	5-10-8	2-0-0	6-6-0	5-2-8	0-7-81-8-0	
					0-1	1-8			
Plate Offsets ((X Y) [4·0-3-	-0 Edgel [6:0-4-0 0-1-15] [10:0-6-0	0.0-4-81						

Tidle On	atic Onsets (A, 1) [4.0 0 0, Eage), [0.0 4 0,0 1 10], [10.0 0 0,0 4 0]									
LOADING	\(\(\)	SPACING- 2-0-0	CSI.	DEFL . in (loc) I/defl L/d	PLATES GRIP					
TCLL	25.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.39 16 >999 240	MT20 197/144					
TCDL	20.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.99 18-19 >529 180	MT20HS 148/108					
BCLL	0.0	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.53 12 n/a n/a	I					
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 249 lb FT = 20%					

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

6-9,9-10: 2x6 SPF No.2, 10-12: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x8 SP 2400F 2.0E, 17-19,11-15,15-17: 2x4 SPF 1650F 1.5E 2x4 SPF No.2

WEBS

OTHERS 2x8 SP 2400F 2.0E

10-12 2x8 SP 2400F 2.0E one side LBR SCAB

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=122(LC 16)

Max Uplift 2=-203(LC 12), 12=-183(LC 13) Max Grav 2=2492(LC 1), 12=2416(LC 1)

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

TOP CHORD 2-3=-7216/594, 3-5=-7165/664, 5-6=-4281/443, 6-7=-3724/422, 7-8=-4291/459, 8-9=-3756/427, 9-10=-4357/444, 10-11=-5552/516, 11-12=-1070/118

2-19=-545/6466, 18-19=-354/4552, 16-18=-322/4246, 14-16=-284/4239, 13-14=-406/5166,

11-13=-408/5159

WEBS 5-19=-276/2336, 5-18=-1021/239, 6-18=-127/1626, 9-14=-101/1458, 7-18=-1082/218,

8-14=-1001/207, 10-14=-1507/270

NOTES-

BOT CHORD

- 1) Attached 8-5-15 scab 10 to 12, back face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-7 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-8-7 from end at joint 10, nail 2 row(s) at 2" o.c. for 3-1-8.
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-0-0, Interior(1) 18-0-0 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 43-10-4 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
- 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) 2, 12 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 203 lb uplift at joint 2 and 183 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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



OF MISS

June 29,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	Λ5	Hip	1	1	14	6777159
2040773	A3	HIP	'	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:23 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-0FbdoQY6_Rf0aaRABDOEq3GhZ1507DRUr?QkOaz1iil

NOTES-

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/28 Woodside 146777160 2846773 A6 Hip Job Reference (optional)

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:25 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-zdiND6aMW2vkptaZleQivUL0yrn0bConIlvrSSz1iiG

Structural wood sheathing directly applied, except

3-18, 5-17, 9-13

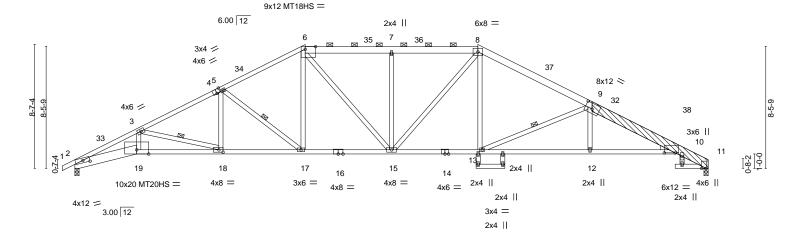
2-0-0 oc purlins (3-6-8 max.): 6-8.

Rigid ceiling directly applied.

1 Row at midpt

44-0-0 42-4₁0 44-10₁8 0-7-81-8-00-10-8

Scale = 1:80.0



							29-10-8			44-0-0
- 1	4-3-8	10-1-12	16-0-0	22-0-0	1	27-10-8	2870-0	35-9-8	41-8-8	42-4 ₁ 0
Г	4-3-8	5-10-4	5-10-4	6-0-0	-	5-10-8	0-1-8	5-11-0	5-11-0	0-7-81-8-0
		1-10-8								

Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-5-12,0-2-0], [4:0-3-0,Edge], [6:0-8-10,Edge], [9:0-6-0,0-4-8], [10:0-9-2,0-0-1], [11:0-0-0,Edge], [18:0-3-8,0-2-0]										
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 0.89	Vert(LL) -0.35 15-17 >999 240	MT20 197/144							
TCDL 20.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.79 15-17 >666 180	MT20HS 148/108							
BCLL 0.0	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.50 11 n/a n/a	MT18HS 197/144							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 263 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

6-8,8-9: 2x6 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x8 SP 2400F 2.0E, 16-19: 2x4 SP 2400F 2.0E

10-14: 2x4 SPF 1650F 1.5E WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

LBR SCAB 9-11 2x8 SP 2400F 2.0E one side

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=138(LC 16)

Max Uplift 2=-221(LC 12), 11=-201(LC 13) Max Grav 2=2492(LC 1), 11=2416(LC 1)

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

2-3=-7171/644, 3-5=-4976/481, 5-6=-3949/437, 6-7=-3776/451, 7-8=-3771/450, TOP CHORD

8-9=-4054/433, 9-10=-5417/507, 10-11=-1070/120 2-19=-657/6438, 18-19=-637/6230, 17-18=-343/4388, 15-17=-185/3420, 13-15=-185/3472,

BOT CHORD 12-13=-390/5016, 10-12=-393/5008

3-19=-77/1145, 3-18=-1906/304, 5-18=-33/655, 5-17=-1198/244, 6-17=-97/839, 6-15=-140/742, 7-15=-668/174, 8-15=-135/673, 9-12=0/299, 8-13=-59/778,

9-13=-1655/310

NOTES-

WFBS

- 1) Attached 9-3-7 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-7 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-5-15 from end at joint 9, nail 3 row(s) at 2" o.c. for 2-11-8.
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 43-10-4 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
- 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) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 201 lb uplift at

Coritinued on page 2



OF MISS

SCOTT M.

SEVIER

UMBER

PE-2001018807

June 29,2021

SSIONAL

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	A6	Hin	1	1	146	6777160
2040773	Ao	mp	'	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:25 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-zdiND6aMW2vkptaZleQivUL0yrn0bConIlvrSSz1iiG

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

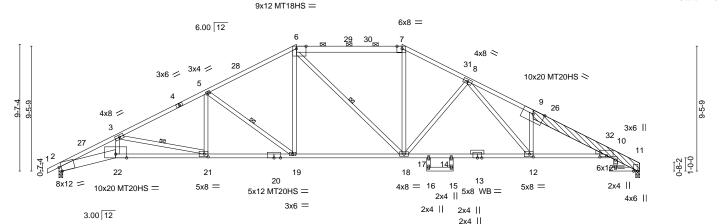
Job Truss Truss Type Qty Summit/28 Woodside 146777161 HIP 2846773 A7 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:27 2021 | Page 1

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

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-v0q7eobd1g9R3BkyQ3TA_vQM5eSr30G4mcOxXLz1iiE 30-11-10

44-0-0 27-10-8 29-10-8 1-10-8 2-0-0 1-1-2 1-8-0

Scale = 1:87.3



1	4-3-8	11-1-12	18-0-0	26-0-0	₁ 27-10-8 ₁ 29-10-8 ₁	35-9-8	41-8-8	42-4 ₁ 0
	4-3-8	6-10-4	6-10-4	8-0-0	1-10-8 2-0-0	5-11-0	5-11-0	0-7-8
								1-8-0
Plate Offsets (X Y)	[2:0-2-1 Fd	lge] [6:0-8-10 Edge] [7	7:0-4-10 Fdgel [10:0-	6-0 0-1-41 [11:0-0-0 Fc	dgel [12:0-3-8 0-2-8]	[21:0-3-8 0-2-8]		

_ riale Olisels (A, I)	[2.0-2-1,Euge], [0.0-6-10,Euge], [7.0-4-	10,Eugej, [10.0-0-0,0-1-4]	j, [11.0-0-0,Euge], [12.0-3-6,0-2-6], [21.0-3-6,0-2-6]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 20.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.85 BC 0.96	Vert(LL) -0.39 18-19 >999 240 Vert(CT) -0.94 12-14 >555 180	MT20 197/144 MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.53 11 n/a n/a	MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 253 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF 1650F 1.5E *Except* TOP CHORD

6-7: 2x6 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x8 SP 2400F 2.0E, 20-22: 2x4 SP 2400F 2.0E

10-13,13-20: 2x4 SPF 1650F 1.5E

2x4 SPF No.2 WEBS

OTHERS 2x8 SP 2400F 2.0E *Except*

13-13: 2x4 SPF No.2

LBR SCAB 9-11 2x8 SP 2400F 2.0E one side

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=153(LC 12)

Max Uplift 2=-276(LC 12), 11=-250(LC 13) Max Grav 2=2497(LC 1), 11=2406(LC 1)

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

TOP CHORD 2-3=-7665/884, 3-5=-4771/516, 5-6=-3643/422, 6-7=-3135/408, 7-8=-3591/425, 8-9=-5566/638, 9-10=-5323/499, 10-11=-838/104

2-22=-893/6796, 21-22=-851/6451, 19-21=-446/4164, 18-19=-221/3130, 17-18=-248/3768, BOT CHORD

14-17=-258/3706, 12-14=-248/3768, 10-12=-371/4900

WFBS 3-22=-160/1668, 3-21=-2344/415, 5-21=-26/613, 5-19=-1259/275, 6-19=-101/877, 7-18=-70/931, 8-18=-967/244, 8-12=-239/1693, 9-12=-1114/254, 6-18=-258/276

NOTES-

- 1) Attached 9-3-7 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-8 from end at joint 9, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 4-7-2 from end at joint 9, nail 2 row(s) at 3" o.c. for 2-11-12.
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 43-10-4 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
- 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) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2 and 250 lb uplift at

Coritinued on page 2



44-0-0

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

3-21, 5-19, 6-18

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

2-0-0 oc purlins (2-5-14 max.): 6-7.

9-0-12 oc bracing: 21-22 2-2-0 oc bracing: 10-12.

1 Row at midpt

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

June 29,2021

SSIONAL

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	۸7	 HIP	1	1		I46777161
2040773		THE	'	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:27 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-v0q7eobd1g9R3BkyQ3TA_vQM5eSr30G4mcOxXLz1iiE

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

Job Truss Truss Type Qty Summit/28 Woodside 146777162 2846773 **A8** Hip Job Reference (optional)

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:29 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-rOyu2UdtZHP9IVuKXUVe3KWnyS9AX_YNDwt2cDz1iiC

Structural wood sheathing directly applied, except

3-17, 5-15, 6-14, 8-14

2-0-0 oc purlins (3-3-1 max.): 6-7.

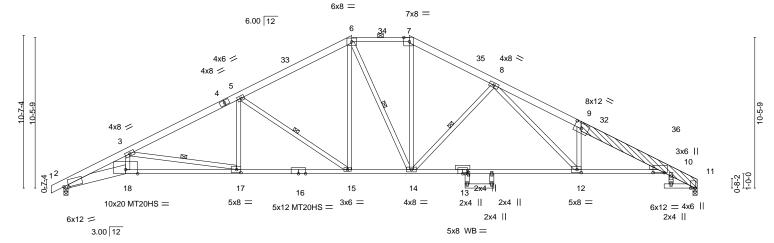
Rigid ceiling directly applied.

1 Row at midpt

44-0-0 42-4₁0 44-10₁8 0-7-81-8-00-10-8

Scale = 1:80.0

44-0-0



	4-3-8	8 12-1-12		20-0-0	1	24-0-0 2	.7-10-8 ₂	29-10-8 ₁	35-9-8	41-8-8	42-4 ₁ 0
	4-3-8	8 7-10-4		7-10-4	1	4-0-0	3-10-8	2-0-0	5-11-0	5-11-0	0-7-81-8-0
Plate Offsets (X,Y) [2:0-4-0,0-1-1], [7:0-4-10,Edge], [9:0-6-0,0-4-8], [10:0-9-6,0-4-8]						, [11:0-0-0,Edge],	[12:0-3-8,0	-2-8], [17:0-3-8,0-2-8], [19	:0-2-0,0-2-0]	
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	0.57	Vert(LL)	-0.39 12	-14	>999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.02 12	-14	>515 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.46	11	n/a n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	(-AS					Weight: 282	lb FT = 20%
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	(-AS					Weight: 282	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

6-7: 2x4 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-18: 2x8 SP 2400F 2.0E, 16-18,10-13: 2x4 SP 2400F 2.0E

13-16: 2x4 SPF 1650F 1.5E

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

LBR SCAB 9-11 2x8 SP 2400F 2.0E one side

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=171(LC 16)

Max Uplift 2=-269(LC 12), 11=-248(LC 13) Max Grav 2=2492(LC 1), 11=2416(LC 1)

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

2-3=-7552/863, 3-5=-4727/497, 5-6=-3413/414, 6-7=-2886/400, 7-8=-3367/417, TOP CHORD

8-9=-5624/640, 9-10=-5404/499, 10-11=-1070/132 2-18=-892/6826, 17-18=-863/6545, 15-17=-441/4159, 14-15=-172/2877, 12-14=-241/3684,

BOT CHORD

10-12=-368/4971

WEBS 3-18=-121/1423, 3-17=-2426/429, 5-17=-9/689, 5-15=-1535/323, 6-15=-148/938. 6-14=-235/285, 7-14=-110/1025, 8-14=-1159/290, 8-12=-244/1805, 9-12=-1061/263

NOTES-

1) Attached 9-3-7 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-7 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-5-15 from end at joint 9, nail 3 row(s) at 2" o.c. for 2-11-8.

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-10-0, Interior(1) 1-10-0 to 20-0-0, Exterior(2E) 20-0-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 43-10-4 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
- 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) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 248 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Connected codesigned and ANSI/TPI 1.



June 29,2021

👠 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



Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside	
2846773	A8	Hip	1	1	1467	777162
2040773	7.0	HIP	'	'	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:29 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-rOyu2UdtZHP9IVuKXUVe3KWnyS9AX_YNDwt2cDz1iiC

NOTES-

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

Job Truss Truss Type Qty Summit/28 Woodside 146777163 2846773 A9 **ROOF SPECIAL** 3 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:33 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-10-8

27-10-8

22-0-0

5-10-8

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-kABPurgNdWwbn6C5mJaaE9gOM3W4Tmkz8YrGI?z1ii8 44-0-0 27-10-8 33-2-14 38-7-5

5-4-6

5-4-6

35-11-1

Structural wood sheathing directly applied.

1 Row at midpt

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

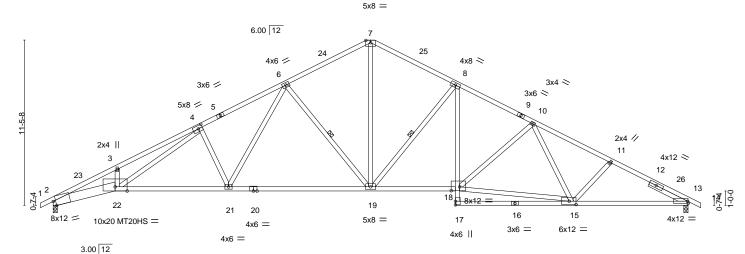
6-19, 8-19

Scale = 1:79.8

0-10-8

5-4-11

44-0-0



7-10-5 5-10-8 Plate Offsets (X,Y)--[2:0-2-1,Edge], [4:0-3-7,0-2-8], [13:Edge,0-1-12], [15:0-5-11,0-2-12], [18:0-7-0,0-3-4] SPACING-**PLATES GRIP** LOADING (psf) CSI. in (loc) I/def L/d -0.34 21-22 TCLL 25.0 Plate Grip DOL 1.15 TC 0.86 Vert(LL) >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.91 Vert(CT) -0.84 19-21 >623 180 MT20HS 148/108 **BCLL** 0.0 Rep Stress Incr YES WB 0.84 Horz(CT) 0.39 13 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 227 lb FT = 20%Matrix-S

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-5,9-14: 2x4 SP 2400F 2.0E **BOT CHORD**

4-3-8

5-10-13

5-11-2

2x4 SPF No.2 *Except* 2-22: 2x8 SP 2400F 2.0E, 20-22,18-20: 2x4 SPF 1650F 1.5E

13-16: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-11-1

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

Max Horz 2=-182(LC 13)

Max Uplift 2=-266(LC 12), 13=-266(LC 13)

Max Grav 2=2496(LC 1), 13=2496(LC 1)

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

TOP CHORD 2-3=-7611/856, 3-4=-7387/955, 4-6=-4494/524, 6-7=-3006/395, 7-8=-3009/395,

8-10=-3842/423, 10-11=-4049/441, 11-13=-4346/453

BOT CHORD 2-22=-892/6732, 21-22=-493/4327, 19-21=-295/3331, 18-19=-155/3360, 8-18=-100/814,

15-17=-4/250, 13-15=-321/3674

WEBS 4-22=-478/2755, 4-21=-996/267, 6-21=-179/1215, 6-19=-1210/300, 7-19=-216/2076,

8-19=-1231/281, 15-18=-224/3415, 10-18=-461/176

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-0-0, Exterior(2R) 22-0-0 to 25-0-0, Interior(1) 25-0-0 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 2 and 266 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.





Job Truss Truss Type Qty Summit/28 Woodside 146777164 2846773 A9A **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:35 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-gYJ9JXhe97AJ0QLUukc2Jamk1tBbxifFbsKMptz1ii6 44-0-0 42-4₁0 44-10₁8 0-7-8 0-10-8 29-10-8 1-8-0 1-6-3 5x8 = Scale = 1:86.3

		6.00	12	7				
8x12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3x6 = 5x8 = 5	28	29 19 18 18 5x8 WB	4x6 \(\) 8 17 14 14 15 13 = 16 15 4x6 = 2x4 3x4 2x4 2x4	9x12 MT18HS 9 26 12 2x4	30 10 11 6x12 2x4 4x6	082 100
 	4-3-8 4-3-8	12-1-13 7-10-5	22-0-0 9-10-3	27-10-8 5-10-8	29-10-8 31-10-3 2-0-0 1-11-11	35-9-8 41-8 3-11-5 5-11	44-0-0 -8 42-4 ₁ 0 -0 0-7-8 1-8-0	

Plate Offsets (X,Y)	[2:0-2-1,Edge], [4:0-3-7,0-2-8], [10:0-6-	0,0-1-4], [11:0-0-0,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
\u /			(/	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.40 17-19 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.97	Vert(CT) -1.01 17-19 >517 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.54 11 n/a n/a	MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 248 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

1-5: 2x4 SP 2400F 2.0E, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x8 SP 2400F 2.0E, 20-22,10-18,18-20: 2x4 SPF 1650F 1.5E 2x4 SPF No.2

WEBS 2x8 SP 2400F 2.0E *Except* **OTHERS**

18-18: 2x4 SPF No.2

LBR SCAB 9-11 2x8 SP 2400F 2.0E one side

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=187(LC 12)

Max Uplift 2=-266(LC 12), 11=-245(LC 13)

Max Grav 2=2497(LC 1), 11=2406(LC 1)

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

TOP CHORD 2-3=-7624/863, 3-4=-7407/965, 4-6=-4486/520, 6-7=-3023/392, 7-8=-3030/397,

8-9=-4539/470, 9-10=-5365/524, 10-11=-838/102

BOT CHORD 2-22=-905/6746, 21-22=-497/4319, 19-21=-316/3405, 17-19=-188/3415, 14-17=-205/3330, 13-14=-188/3415, 12-13=-397/4963, 10-12=-399/4958

WEBS 4-22=-489/2783, 4-21=-965/254, 6-21=-167/1153, 6-19=-1235/305, 7-19=-211/2059,

8-19=-1248/306, 8-13=-122/1098, 9-13=-1359/277

NOTES-

REACTIONS.

- 1) Attached 9-3-7 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-8 from end at joint 9, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 4-7-2 from end at joint 9, nail 2 row(s) at 3" o.c. for 2-11-12.
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-0-0, Exterior(2R) 22-0-0 to 25-0-0, Interior(1) 25-0-0 to 43-10-4 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
- 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) 2, 11 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 266 lb uplift at joint 2 and 245 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

6-19, 8-19

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

2-2-0 oc bracing: 10-12.

1 Row at midpt

June 29,2021

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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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777165 2846773 A10 Roof Special Job Reference (optional)

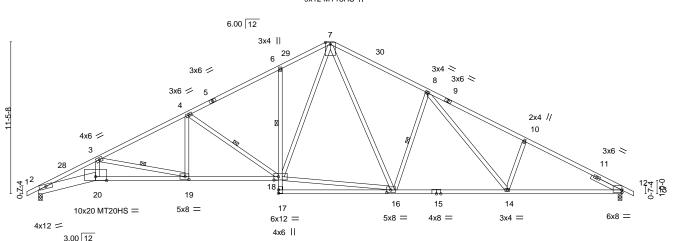
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:02 2021 Page 1

Scale = 1:86.9

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-8CphOFlxw_0_ZLK8SJWJTdu3cZxhinwP0Dq78lz1iid 44-0-0 44-10-8 0-10-8 -0₋10₋8 0-10-8 29-3-14 36-7-13 4-3-8 6-10-12 6-10-12 3-11-0 7-3-14 7-3-14 7-4-3

9x12 MT18HS ||



		4-3-0 11	-2-4	10-1-0		20-0-9		33-4-2		44-0-0	1
		4-3-8 6-1	0-12	6-10-12		8-7-9	1	8-7-9		8-7-14	
Plate Offs	ets (X,Y)	[12:Edge,0-2-4], [16:0-3-	10,0-2-4], [18	:0-4-0,0-3-0],	[19:0-3-8,0-	2-8]					
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.32 18-19	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.73 18-19	>723	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.32 12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	x-AS	` '				Weight: 224 lb	FT = 20%
				1		1					

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

6-18

3-19, 4-18, 8-16

Rigid ceiling directly applied. Except:

1 Row at midpt

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-5,9-13: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except* 2-20: 2x8 SP 2400F 2.0E, 18-20,12-15: 2x4 SP 2400F 2.0E

2x4 SPF No.2

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

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

Max Horz 2=180(LC 12)

Max Uplift 2=-265(LC 12), 12=-266(LC 13)

Max Grav 2=2490(LC 1), 12=2504(LC 1)

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

TOP CHORD $2-3=-7209/821,\ 3-4=-4804/503,\ 4-6=-3594/409,\ 6-7=-3458/485,\ 7-8=-3311/453,$

8-10=-4091/510, 10-12=-4243/443

BOT CHORD 2-20=-864/6479, 19-20=-838/6270, 18-19=-462/4221, 6-18=-425/175, 14-16=-168/3123,

12-14=-294/3687

WEBS 3-20=-104/1160, 3-19=-2099/385, 4-19=-26/677, 4-18=-1393/285, 16-18=-115/2261, 7-18=-309/1666, 7-16=-245/974, 8-16=-961/310, 8-14=-163/725, 10-14=-466/207

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-0-0, Exterior(2R) 22-0-0 to 25-0-0, Interior(1) 25-0-0 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 2 and 266 lb uplift at ioint 12.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 29,2021

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



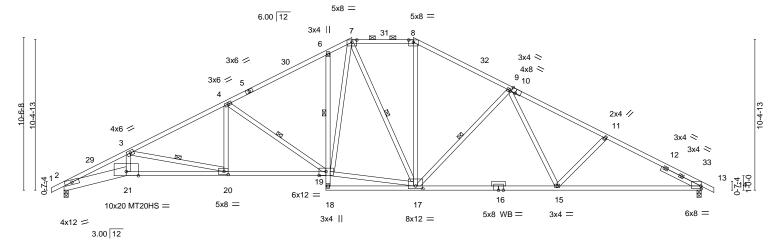
Job Truss Truss Type Qty Summit/28 Woodside 146777166 2846773 A11 Hip Job Reference (optional)

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:03 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-cON3bblZhl8rAVvK001Y0rRlizGCREHYEtaghkz1iic

-0-10-8 0-10-8 19-10-8 30-8-14 37-4-5 4-3-8 6-10-12 6-10-12 1-9-8 4-3-0 6-7-6 6-7-6 6-7-11 0-10-8

Scale = 1:79.6



	- -5-0	11-2-4		10-1-0	10-10-Q	24-1-0	J-T-	0-3		77-0-0	
	4-3-8	6-10-12	1	6-10-12	1-9-8	4-3-0	9-1	1-1		9-11-7	
Plate Offsets	(X,Y) [7:0-	-4-0,0-1-15], [8:0-4-0,	0-1-15], [10:0	-3-8,Edge], [13:Edge,0-2-	4], [17:0-6-0,0-2-4], [19:0-5-12,0	-3-4], [20:	0-3-8,0-2-8]		
		004000	0.00	201		555		./	1./.	DI 4750	ADID
LOADING (p	ST)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.32 19-20	>999	240	MT20	197/144
TCDL 20	0.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.76 15-17	>694	180	MT20HS	148/108
BCLL (0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.33 13	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-AS					Weight: 230 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

34-0-9

1 Row at midpt

1 Row at midpt

Structural wood sheathing directly applied, except

3-20, 4-19, 7-17, 9-17

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

Rigid ceiling directly applied. Except:

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 1-5,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-21: 2x8 SP 2400F 2.0E, 19-21,13-16: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2 SLIDER Right 2x4 SPF No.2 3-0-0

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

Max Horz 2=-164(LC 17)

Max Uplift 2=-269(LC 12), 13=-270(LC 13)

Max Grav 2=2490(LC 1), 13=2504(LC 1)

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

TOP CHORD 2-3=-7209/823, 3-4=-4804/510, 4-6=-3594/421, 6-7=-3413/480, 7-8=-2602/396,

8-9=-3058/404, 9-11=-3968/444, 11-13=-4238/463

BOT CHORD 2-21=-848/6479, 20-21=-824/6270, 19-20=-452/4221, 6-19=-285/154, 15-17=-207/3240,

13-15=-318/3700

WEBS 3-21=-101/1161, 3-20=-2099/381, 4-20=-25/676, 4-19=-1392/285, 17-19=-131/2638,

7-19=-296/1617, 7-17=-602/140, 8-17=-84/800, 9-17=-933/260, 9-15=-53/537,

11-15=-391/185

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 19-10-8, Exterior(2E) 19-10-8 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 270 lb uplift at joint 13.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 29,2021

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

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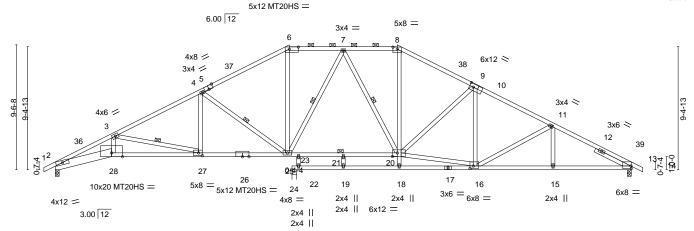
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:05 2021 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-YnVp0HKpDvOZQp3j7R405GWbYn0uv6?riB3nldz1iia 32-0-14 5-11-6 6-9-8 4-1-8

Scale = 1:88.0



				18-7-0						
	4-3-8	11-1-0	17-10-8	18 ₁ 1-0	22-0-0	26-1-8	32-0-14	38-0-5	44-0-0	- 1
	4-3-8	6-9-8	6-9-8	0-2-8	3-5-0	4-1-8	5-11-6	5-11-6	5-11-11	
				0-6-0						
)	[5:0-4-0 Edge	el [6:0-8-4 0-2-0] [8:0	0-4-0 0-1-151 [10:0-	3-8 0-3-0	01 [13·F	dae 0-2-41 [16	6.0-3-0 0-2-41 [20.0-	4-8 0-3-41 [27:0-3-8	R 0-2-81	

riale Olisels (A, I)	[5.0-4-0,Euge], [6.0-6-4,0-2-0], [6.0-4-0	,0-1-13], [10.0-3-6,0-3-0],	[13.Euge;0-2-4], [10.0-3-0,0-2-4], [20.0-4-6,0-3-4], [27.0	-3-0,0-2-0]
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 0.92	Vert(LL) -0.31 24 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.75 19-22 >705 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.35 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 234 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

1-5,10-14: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SP 2400F 2.0E *Except*

2-28: 2x8 SP 2400F 2.0E, 17-24: 2x4 SPF No.2

20-26: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

Plata Officate (V V)

SLIDER Right 2x4 SPF No.2 3-0-0

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=147(LC 12)

Max Uplift 2=-270(LC 12), 13=-272(LC 13)

Max Grav 2=2496(LC 1), 13=2508(LC 1)

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

TOP CHORD 2-3=-7233/813, 3-4=-4827/514, 4-6=-3696/415, 6-7=-3165/404, 7-8=-3153/406,

8-9=-3629/416, 9-11=-3866/426, 11-13=-4232/451

BOT CHORD 2-28=-822/6500, 27-28=-798/6289, 25-27=-440/4242, 23-25=-182/3264, 21-23=-182/3264, 20-21=-182/3264, 15-16=-314/3697, 13-15=-314/3697

3-28=-95/1172, 3-27=-2099/368, 4-27=-30/641, 18-20=0/275, 8-20=-100/1137,

16-20=-222/3366, 11-16=-385/141, 6-25=-85/1121, 4-25=-1310/282, 9-20=-405/196,

7-25=-440/138, 7-20=-463/135

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-10-8, Exterior(2R) 17-10-8 to 22-0-0, Interior(1) 22-0-0 to 26-1-8, Exterior(2R) 26-1-8 to 30-4-7, Interior(1) 30-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2 and 272 lb uplift at 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 29,2021



Structural wood sheathing directly applied, except

3-27, 4-25, 7-25, 7-20

2-0-0 oc purlins (3-0-1 max.): 6-8.

10-0-0 oc bracing: 23-25

1 Row at midpt

1 Brace at Jt(s): 21

Rigid ceiling directly applied. Except:

Job Truss Truss Type Qty Summit/28 Woodside 146777168 2846773 A13 Hip Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:07 2021 Page 1

Structural wood sheathing directly applied, except

3-21, 8-18, 11-17

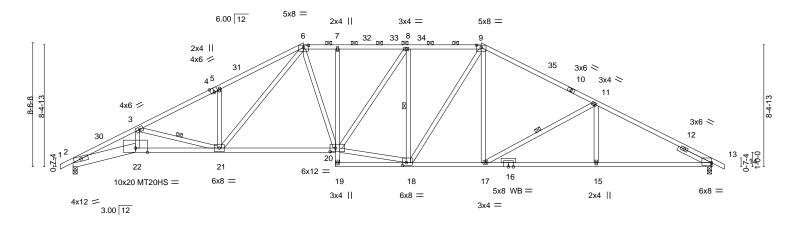
2-0-0 oc purlins (2-7-14 max.): 6-9.

Rigid ceiling directly applied.

1 Row at midpt

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-UAdaRyM4lWeHf6C6Fs6UAhbzzadnN0389VYuqVz1iiY -0-10-8 0-10-8 15-10-8 18-1-0 28-1-8 4-3-8 5-9-8 5-9-8 2-2-8 5-0-4 5-0-4 7-11-1 7-11-7 0-10-8

Scale = 1:79.4



	4-3-	8 10-1-0	15-10-	8 18-1-0	23-1-4	28-1-8	36-0	1-9	44-0-0	
	4-3-	8 5-9-8	5-9-8	2-2-8	5-0-4	5-0-4	7-11	-1	7-11-7	1
Plate Offset	ts (X,Y)	[4:0-3-0,Edge], [6:0-4-0,0	-1-15], [9:0-4-0	,0-1-15], [13:Edge	e,0-2-4], [18:0-3-0	0,0-2-4], [20:0-4-8,0	-3-0]			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	FL. in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.73	Ve	rt(LL) -0.31 20-	21 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.99	Ve	rt(CT) -0.75 20-2	21 >704	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.79	Ho	orz(CT) 0.33	13 n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matrix-AS					Weight: 232 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP 2400F 2.0E *Except* TOP CHORD

6-9: 2x4 SPF No.2, 1-4,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E *Except*

2-22: 2x8 SP 2400F 2.0E, 7-19,16-19: 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

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

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

Max Horz 2=131(LC 12)

Max Uplift 2=-275(LC 12), 13=-277(LC 13) Max Grav 2=2490(LC 1), 13=2504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-7152/819, 3-5=-4999/541, 5-6=-5035/664, 6-7=-3625/430, 7-8=-3615/431,

8-9=-3268/419, 9-11=-3534/401, 11-13=-4237/459

2-22=-809/6419, 21-22=-784/6214, 20-21=-269/3410, 7-20=-397/100, 17-18=-153/3018, **BOT CHORD**

15-17=-303/3680, 13-15=-303/3680 3-22=-108/1128, 3-21=-1867/336, 5-21=-545/209, 18-20=-161/3212, 8-20=-134/667,

8-18=-1054/179, 9-18=-130/666, 9-17=-54/539, 11-17=-770/227, 11-15=0/272,

6-21=-303/1591, 6-20=-119/851

NOTES-

WEBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-10-8, Exterior(2R) 15-10-8 to 20-1-7, Interior(1) 20-1-7 to 28-1-8, Exterior(2R) 28-1-8 to 32-4-7, Interior(1) 32-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 277 lb uplift at 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

June 29,2021

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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:09 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-RYkKseNKH8u?vQMUMH8yF6hGqOKprttQdp1_uOz1iiW

Structural wood sheathing directly applied, except

8-20. 5-23

2-0-0 oc purlins (2-2-3 max.): 6-10.

10-0-0 oc bracing: 21-22

1 Brace at Jt(s): 22, 23

1 Row at midpt

Rigid ceiling directly applied. Except:



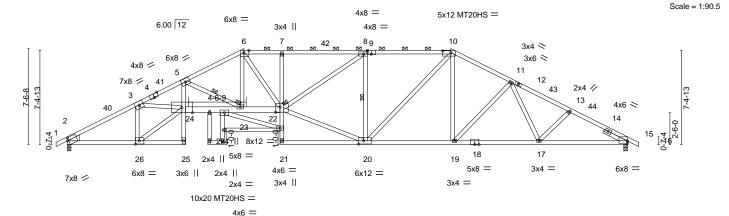


Plate Offsets	ts (X,Y)	[2:0-0-15,0-2-10], [4:0-4-0 , [26:0-3-8,0-3-0]		4-10,Edge], [8	*	0], [9:0-3-12,Edge],	[10:0-7-	12,0-1		Edge,0-2-4]	, [20:0-4-12,0-3-0], [22:0-	-4-4,0-5-0]
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2		Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.46	` <i>7</i>	>999	240	MT20	197/144
TCDL 2	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.00	7	>526	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.50	15	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 248 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD 2x4 SPF 1650F 1.5E *Except*

12-4-0 11-0-8 13-10-8 16-8-8

4-6: 2x4 SP 2400F 2.0E, 10-12: 2x4 SPF No.2 2x4 SPF No.2 *Except*

2-25,15-18: 2x4 SP 2400F 2.0E, 22-24: 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except*

24-26: 2x4 SP 2400F 2.0E, 3-24: 2x4 SPF 1650F 1.5E

WEDGE

BOT CHORD

Left: 2x6 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 15=0-3-8

Max Horz 2=-75(LC 10)

Max Uplift 2=-18(LC 12), 15=-18(LC 13) Max Grav 2=2490(LC 1), 15=2504(LC 1)

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

2-3=-4329/427, 3-5=-8851/808, 5-6=-5741/562, 6-7=-5499/579, 7-8=-5513/583,

8-10=-3763/470, 10-11=-3671/438, 11-13=-4074/435, 13-15=-4230/430

BOT CHORD 2-26=-304/3747, 5-24=-170/2482, 23-24=-596/7875, 22-23=-297/5038, 7-22=-510/114,

19-20=-195/3207, 17-19=-282/3555, 15-17=-320/3654 8-20=-1898/216, 10-20=-84/959, 10-19=-38/528, 3-26=-2745/265, 24-26=-361/4454.

WFBS 3-24=-287/4141, 20-22=-261/3915, 8-22=-142/2130, 6-23=-110/1507, 5-23=-3115/333,

11-19=-504/125, 6-22=-106/991

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-10-8, Exterior(2R) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 30-1-8, Exterior(2R) 30-1-8 to 36-4-3, Interior(1) 36-4-3 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2 and 18 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 29,2021

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



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

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MiTek

Job Truss Truss Type Qty Summit/28 Woodside 146777170 HIP 2846773 A15 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:10 2021 Page 1

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

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-vkli3_Oy2R0sWaxhw_fBoJDSAofSaL_arTmYRqz1iiV

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

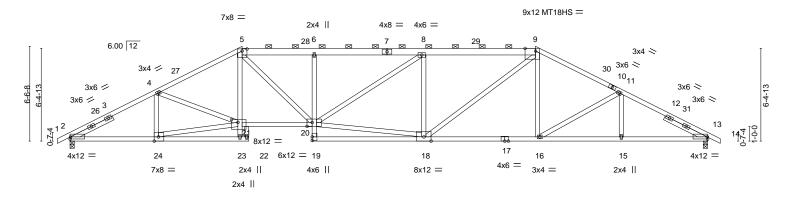
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (2-10-9 max.): 5-9.

2-2-0 oc bracing: 16-18.

44-10-8 0-10-8 32-1-8 38-0-9 44-0-0 5-11-7 5-11-1 4-4-8 7-8-8 7-8-8 5-11-1 5-11-7

Scale = 1:79.5



		5-11-7 11-1 5-11-7 5-1		16-8-8 4-4-8	24-5-0 7-8-8	32-1-8 7-8-8	38-0-9 5-11-1	44-0-0 5-11-7	——
Plate Offs	ets (X,Y)					-3-4], [24:0-3-8,Edge], [25:0		0117	
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 0.8	86 Vert(LL)	-0.28 6 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.9	92 Vert(CT	-0.65 18-19 >806	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB 0.9	91 Horz(C1	r) 0.26 13 n/a	n/a		
BCDL	10.0	Code IRC2018/7	ΓPI2014	Matrix-S				Weight: 235 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SP 2400F 2.0E *Except* TOP CHORD

5-7,7-9: 2x6 SPF No.2, 9-10: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except* 2-22,13-17: 2x4 SP 2400F 2.0E, 20-21: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except* 18-20: 2x4 SPF 1650F 1.5E

SLIDER Left 2x4 SPF No.2 3-2-12, Right 2x4 SPF No.2 3-2-12

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

Max Horz 2=98(LC 16)

Max Uplift 2=-277(LC 12), 13=-281(LC 13) Max Grav 2=2505(LC 1), 13=2499(LC 1)

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

2-4=-4396/461, 4-5=-4639/503, 5-6=-4988/529, 6-8=-4953/526, 8-9=-4410/478, TOP CHORD

9-11=-3906/442, 11-13=-4378/474

BOT CHORD 2-24=-421/3724, 20-21=-357/4081, 6-20=-657/170, 18-19=-16/274, 16-18=-220/3411, 15-16=-334/3710, 13-15=-334/3710

4-24=-542/131, 5-20=-233/1419, 18-20=-378/4167, 8-20=-182/724, 8-18=-1229/265, 9-18=-231/1405, 9-16=-16/401, 11-16=-351/149, 5-21=-58/648, 21-24=-418/3689,

4-21=-100/566

NOTES-

WEBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-8, Exterior(2R) 11-10-8 to 16-1-7, Interior(1) 16-1-7 to 32-1-8, Exterior(2R) 32-1-8 to 36-4-7, Interior(1) 36-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 2 and 281 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.



June 29,2021

OF MISS

SCOTT M.

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

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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777171 2846773 A16 Hip Structural Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:12 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-r7QTUgPCZ3Gamu532PiftkJqybQq2LFtJnFfVjz1iiT

7-0-8

Scale = 1:72.5

34-1-8

3-5-8

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-11.

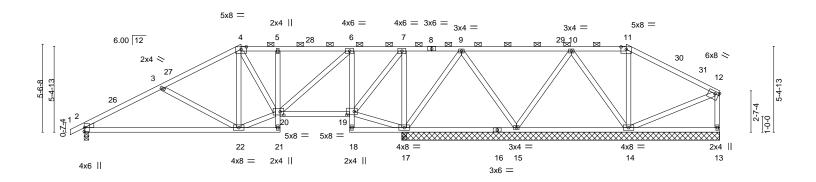
Rigid ceiling directly applied.

40-0-0

5-10-8

30-8-0

6-11-0



		9-10-8	1 12-4-0	16-8-8	1 20-3-8	1	27-2-8		34-1-8	40-0-0	
		9-10-8	2-5-8	4-4-8	3-7-0	1	6-11-0	1	6-11-0	5-10-8	
Plate Offs	sets (X,Y)	[4:0-4-0,0-1-15], [11:0-4-0	0,0-1-15], [12:E	dge,0-1-12], [19	:0-5-12,0-2-8],	[20:0-2-12,0	0-2-8]				
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.7	1	Vert(LL)	-0.14 22-25	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.6	1	Vert(CT)	-0.30 22-25	>814	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.5	4	Horz(CT)	0.02 17	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS						Weight: 189 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

-0-10₋₈

4-11-7

4-11-1

2-5-8

4-4-8

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS. All bearings 20-0-0 except (jt=length) 2=0-3-8.

Max Horz 2=125(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 15 except 2=-135(LC 12), 14=-111(LC 13), 17=-311(LC 12) Max Grav All reactions 250 lb or less at joint(s) 13 except 2=987(LC 1), 14=686(LC 26), 17=2105(LC 1), 17=2105(LC 1), 15=532(LC 26)

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

TOP CHORD 2-3=-1384/219, 3-4=-933/148, 4-5=-713/149, 5-6=-727/152, 7-9=-114/771,

9-10=-47/264

BOT CHORD 2-22=-212/1173, 5-20=-336/95, 6-19=-1067/221, 15-17=-323/118

3-22=-490/169, 20-22=-39/788, 6-20=-172/1013, 11-14=-390/103, 7-17=-1098/199, WFBS

17-19=-777/204, 7-19=-171/1145, 9-17=-785/150, 10-15=-506/126

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-10-8, Exterior(2R) 9-10-8 to 14-1-7, Interior(1) 14-1-7 to 34-1-8, Exterior(2R) 34-1-8 to 38-4-7, Interior(1) 38-4-7 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) 13, 15 except (it=lb) 2=135, 14=111, 17=311.
- 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.



June 29,2021



Job Truss Truss Type Qty Summit/28 Woodside 146777172 2846773 A17 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:14 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-nWYDvMRT5gWI?BFS9qk7y9O89P6TWDMAm5klabz1iiR

20-1-12

3-5-4

4-4-8

22-4-4

2-2-8

28-0-0

5-7-12

30-0-0 32-0-0 2-0-0

36-0-0

4-0-0

Structural wood sheathing directly applied, except end verticals, and

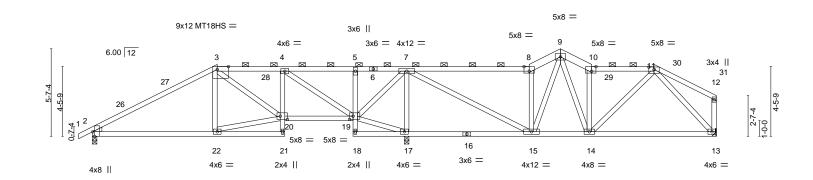
2-0-0 oc purlins (4-5-15 max.): 3-8, 10-11.

Rigid ceiling directly applied.

40-0-0

4-0-0

Scale = 1:73.8



		8-0-0	12-4-0	16-8-8	20-1-12 20 ₁ 3-8	28-0-0	32-0-0	36-0-0 ₁	40-0-0
	ı	8-0-0	4-4-0	4-4-8	3-5-4 0-1 [!] -12	7-8-8	4-0-0	4-0-0	4-0-0
Plate Offsets	(X,Y)	[2:0-3-8,Edge], [3:0-8-10	,Edge], [8:0-4-0	,Edge], [10:0-3-6,Ed	lge], [11:0-4-0,0-1-15]	, [19:0-2-12,0-2-8],	[20:0-5-8,0-2-8]		
LOADING (p	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/e	defl L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.11 13-14 >	999 240	MT20	197/144
TCDL 20	0.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.23 13-14 >9	999 180	MT18HS	197/144
BCLL (0.0	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.04 13	n/a n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matrix-AS				Weight: 190	lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

4-4-0

2x4 SPF No.2 *Except* TOP CHORD

8-9,9-10: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

16-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

-0-10-8 0-10-8

8-0-0

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 13=Mechanical

Max Horz 2=127(LC 11)

Max Uplift 2=-152(LC 12), 17=-332(LC 12), 13=-112(LC 13) Max Grav 2=998(LC 25), 17=2603(LC 1), 13=875(LC 1)

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

2-3=-1260/202, 3-4=-969/217, 7-8=-748/157, 8-9=-909/200, 9-10=-1001/194, TOP CHORD

10-11=-877/157

BOT CHORD 2-22=-164/1002, 4-20=-20/339, 19-20=-160/998, 15-17=-847/132, 14-15=-80/645,

WEBS 20-22=-158/983, 4-19=-1231/182, 17-19=-851/157, 7-19=-151/1014, 7-17=-2172/353,

7-15=-202/1800, 8-15=-937/217, 9-15=-101/265, 9-14=-104/610, 10-14=-718/148, 11-14=-10/378, 11-13=-811/141

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-0-0, Interior(1) 32-0-0 to 36-0-0, Exterior(2R) 36-0-0 to 39-0-0, Interior(1) 39-0-0 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=152, 17=332, 13=112.
- 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.



June 29,2021

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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777173 2846773 A18 Roof Special Girder Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:15 2021 Page 1

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

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

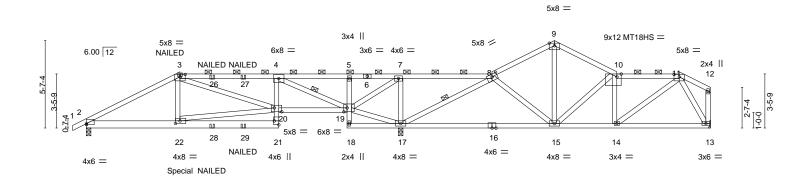
1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-3-10 max.): 3-8, 10-11.

4-19, 8-17

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Fi6b6hS5s_e8dLpejYFMVNxJdpR_FjVJ?IUJ61z1iiQ 20-1-12 26-0-0 30-0-0 34-0-0 38-0-0 2-11-13 3-2-0 3-2-0 4-4-8 3-5-4 1-2-8 4-7-12 4-0-0 4-0-0 4-0-0 2-0-0

Scale = 1:73.8



L	3-0-3	₁ 6-0-0 ₁	12-4-0	16-8-8	1 20-1-12	1 2	6-0-0	30-0-0	34-0-0	38-0-0	40-0-0
I	3-0-3	2-11-13	6-4-0	4-4-8	3-5-4	5	-10-4	4-0-0	4-0-0	4-0-0	2-0-0
Plate Offsets (X,Y) [2:0-0)-0,0-0-11], [3:0-4-	0,0-1-15], [8:0-4-	0,0-2-0], [10:0-3-6	Edge], [11:0-	4-0,0-1-15], [19:0-2-8,0-3	-0], [20:0-5-1	[2,0-3-0], [21:E	Edge,0-3-8], [22:0-3	3-8,0-2-0]
LOADING (psf)		SPACING-	2-0-0	CSI.	1	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.88	\	Vert(LL)	-0.15 15-17	>999	240	MT20	197/144
TCDL 20.0		Lumber DOL	1.15	BC 0.65	\	Vert(CT)	-0.31 15-17	>775	180	MT18HS	197/144
BCLL 0.0		Rep Stress Incr	NO	WB 0.50		Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0		Code IRC2018/7	ΓPI2014	Matrix-MS						Weight: 186 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 3-6,6-8: 2x4 SPF 1650F 1.5E

2x4 SPF No.2 *Except*

BOT CHORD 2-21: 2x6 SPF No.2, 16-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 13=Mechanical, 17=0-3-8

Max Horz 2=126(LC 7)

Max Uplift 2=-290(LC 8), 13=-79(LC 9), 17=-493(LC 8) Max Grav 2=1466(LC 21), 13=747(LC 1), 17=3180(LC 1)

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

TOP CHORD 2-3=-2422/498, 3-4=-2018/468, 4-5=-87/595, 5-7=-84/630, 7-8=-346/1949, 8-9=-684/58,

9-10=-674/41, 10-11=-858/79

BOT CHORD 2-22=-456/2071, 21-22=-27/286, 4-20=-12/488, 19-20=-412/1973, 15-17=-227/408,

14-15=-75/867. 13-14=-63/377

WFBS 3-22=0/442, 4-19=-2751/567, 8-15=-64/612, 9-15=-37/268, 10-15=-509/114,

10-14=-315/45, 7-17=-1378/310, 17-19=-1916/390, 7-19=-317/1600, 8-17=-2152/295,

11-14=-18/639, 11-13=-712/106, 20-22=-434/1788

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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 100 lb uplift at joint(s) 13 except (jt=lb) 2=290, 17=493,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 458 lb down and 150 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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

Continued on page 2

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

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



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OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside
					146777173
2846773	A18	Roof Special Girder	1	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:16 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-jufzK1TjdHn?EVOqHFmb1aTUNDnD_9ISEPDseUz1iiP

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 11-12=-90, 21-23=-20, 19-20=-20, 13-18=-20

Concentrated Loads (lb)

Vert: 3=-114(F) 22=-458(F) 26=-114(F) 27=-114(F) 28=-59(F) 29=-59(F)



Job Truss Truss Type Qty Summit/28 Woodside 146777174 2846773 В1 Common Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:36 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-8ltXWtiGwRIAeawgSS7HroI64HldgJgPqW4wLKz1ii5 $\frac{-0-10-8}{0-10-8}$ 20-0-0 10-0-0 10-0-0 0-10-8

Scale = 1:37.4

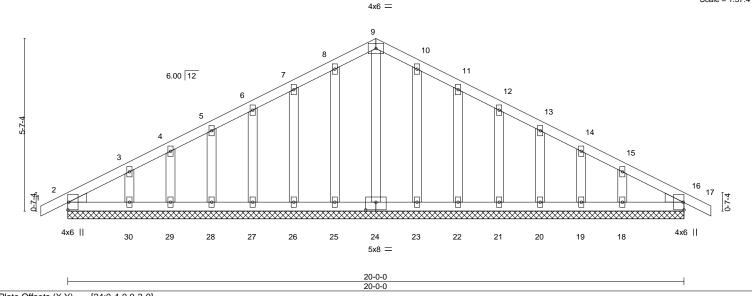


Plate Offsets (X,Y)--[24:0-4-0,0-3-0] **PLATES** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 16 120 197/144 n/r MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 16 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 16 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 95 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. All bearings 20-0-0.

Max Horz 2=86(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28,
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 16.
- 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.



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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777175 2846773 B2 Common 3 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:37 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-cxRvkDjuhkQ1GkVt?9eWO?rDvgwUPiCY3ApTumz1ii4 20-10-8 0-10-8 10-0-0 20-0-0 5-0-3 4-11-13 4-11-13 5-0-3 Scale = 1:36.0 4x6 = 3 6.00 12 16 2x4 > 2x4 / 2 17 7 6x8 = 4x6 || 4x6 | 10-0-0 20-0-0 Plate Offsets (X,Y)--[7:0-4-0,0-3-4] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.13 7-10 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.75 Vert(CT) -0.287-10 >862 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 69 lb Matrix-AS **BRACING-**

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

REACTIONS. (size) 1=Mechanical, 5=0-3-8

Max Horz 1=-93(LC 17)

Max Uplift 1=-112(LC 12), 5=-129(LC 13) Max Grav 1=1098(LC 1), 5=1180(LC 1)

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

1-2=-1770/306, 2-3=-1323/242, 3-4=-1323/240, 4-5=-1765/301

BOT CHORD 1-7=-197/1511, 5-7=-196/1504

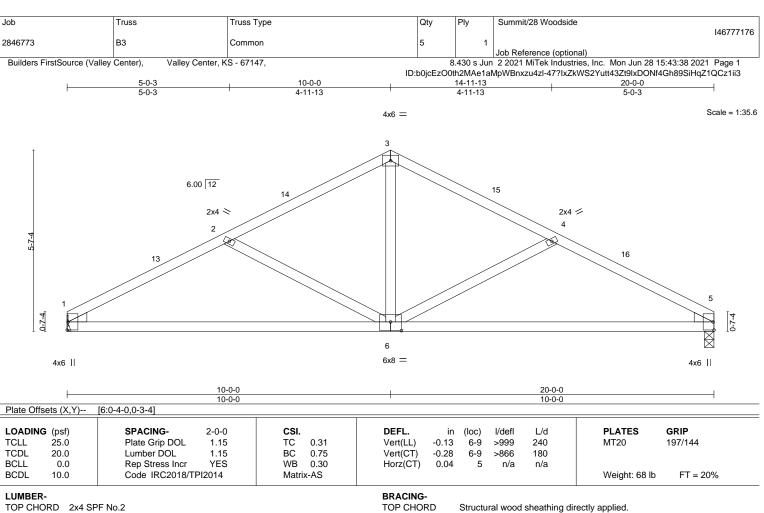
3-7=-64/638, 4-7=-499/178, 2-7=-507/179 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=112, 5=129
- 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.







BOT CHORD

Rigid ceiling directly applied.

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

REACTIONS. (size) 1=Mechanical, 5=0-3-8

Max Horz 1=79(LC 16)

Max Uplift 1=-112(LC 12), 5=-112(LC 13) Max Grav 1=1100(LC 1), 5=1100(LC 1)

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

1-2=-1774/307, 2-3=-1327/243, 3-4=-1327/243, 4-5=-1774/307

BOT CHORD 1-6=-216/1514, 5-6=-211/1514

3-6=-64/640, 4-6=-507/180, 2-6=-507/179 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-0-0 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=112, 5=112.
- 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.





Job Truss Truss Type Qty Summit/28 Woodside 146777177 2846773 CJ1 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:39 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-YKYg9vk8DMgkV1fF7ah_TQwYUUjytdkrWUlayez1ii2 1-2-14 4-2-3 Scale = 1:21.6 2x4 || 4 NAII FD NAILED 4.24 12 13 3x4 = NAILED NAII FD 12 0-7-4 14 15 8 NAILED NAILED 2x4 || 3x6 = 63x6 II NAILED NAILED Plate Offsets (X,Y)--[2:0-3-14,0-5-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.31 Vert(LL) -0.01 7-8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.30 Vert(CT) -0.03 7-8 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.23 Horz(CT) 0.01 n/a n/a **BCDL** Code IRC2018/TPI2014 FT = 20% 10.0 Matrix-MP Weight: 32 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=134(LC 7)

Max Uplift 7=-128(LC 8), 2=-135(LC 4) Max Grav 7=511(LC 1), 2=597(LC 1)

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

TOP CHORD 2-3=-724/150

BOT CHORD 2-8=-174/642, 7-8=-174/642

WEBS 3-7=-705/205

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=128, 2=135
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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=-90, 4-5=-40, 6-9=-20

Concentrated Loads (lb)

Vert: 13=-27(F=-14, B=-14) 14=-12(F=-6, B=-6) 15=-51(F=-25, B=-25)



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

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

except end verticals.

June 29,2021





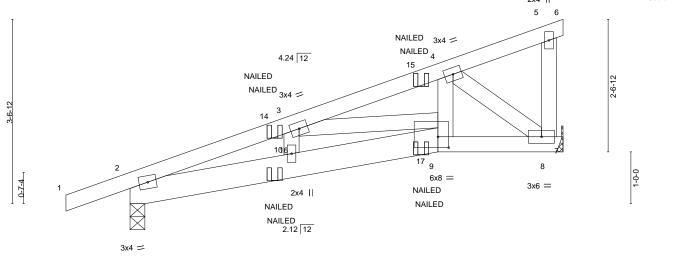
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777178 2846773 CJ₂ Diagonal Hip Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:40 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-0W62MEImzfob7BEShICD0eTImu31c6s?l827U5z1ii1 1-2-14 3-1-7 2-9-15 2-5-0 Scale = 1:22.2 2x4 ||



2-9-15

Plate Off	sets (X,Y)				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.02 10 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.04 9-10 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.01 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 35 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

2-9: 2x6 SPF No.2 2x4 SPF No.2

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

Max Horz 2=116(LC 5)

Max Uplift 8=-130(LC 8), 2=-138(LC 4) Max Grav 8=514(LC 1), 2=599(LC 1)

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

TOP CHORD 2-3=-1072/245, 3-4=-683/159

BOT CHORD 2-10=-273/977 9-10=-278/1002 8-9=-170/570 **WEBS** 3-9=-369/112, 4-9=-79/362, 4-8=-706/212

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=130, 2=138.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-5=-90, 5-6=-40, 9-11=-20, 7-9=-20

Concentrated Loads (lb) Vert: 15=-4(F=-2, B=-2) 16=-15(F=-8, B=-8) 17=-76(F=-38, B=-38)



Structural wood sheathing directly applied or 5-7-14 oc purlins,

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

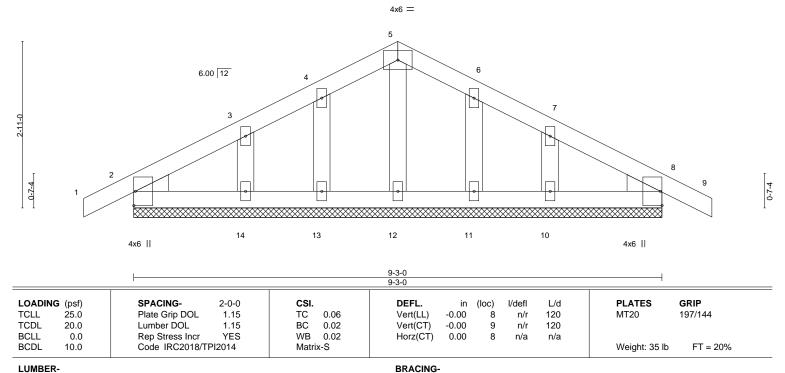
except end verticals.

June 29,2021



Job Truss Truss Type Qty Summit/28 Woodside 146777179 2846773 D1 Common Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:41 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-VigQaamPkzwSkLpeE?jSYr0yplTpLaS8_onh1Xz1ii0 10-1-8 0-10-8 4-7-8 4-7-8 0-10-8

Scale = 1:20.2



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. All bearings 9-3-0.

Max Horz 2=-44(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 4-7-8, Corner(3R) 4-7-8 to 7-7-8, Exterior(2N) 7-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11,
- 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.

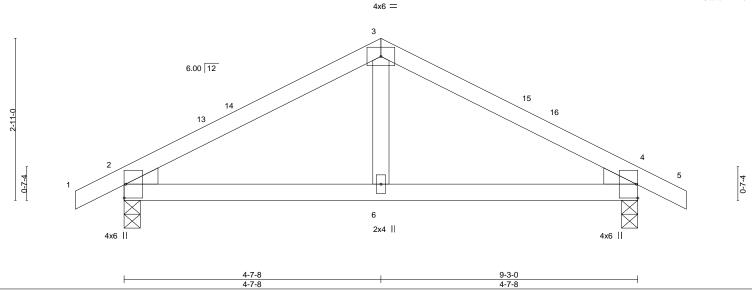


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



Job Truss Truss Type Qty Summit/28 Woodside 146777180 2846773 D2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:42 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-zuEonwn1VH2JMVOqoiEh53Y45hlC41NHCSXEZzz1ii? 10-1-8 0-10-8 4-7-8 0-10-8 Scale = 1:20.7



LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.02 >999 240 197/144 **TCLL** 1.15 0.22 6-9 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.03 6-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.01 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 29 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

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

Max Horz 2=-44(LC 13)

Max Uplift 2=-69(LC 12), 4=-69(LC 13) Max Grav 2=587(LC 1), 4=587(LC 1)

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

TOP CHORD 2-3=-637/220, 3-4=-637/220 BOT CHORD 2-6=-93/500, 4-6=-93/500

NOTES-

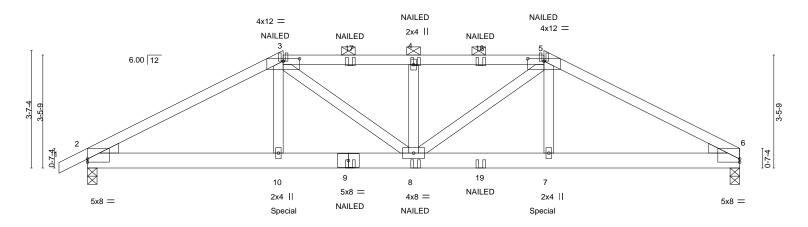
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-8, Exterior(2R) 4-7-8 to 7-7-8, Interior(1) 7-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.





Job Truss Truss Type Qty Summit/28 Woodside 146777181 2846773 E1 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:44 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-vHMZCcoH1ul1boXDw7G9AUeFNVGqYu5agm0Lcsz1ihz 20-0-0 -0-10-8 0-10-8 6-0-0 14-0-0 16-11-13 3-0-3 2-11-13 4-0-0 4-0-0 2-11-13 3-0-3

Scale = 1:35.3



		0-0-0			10-0-0		14-0)- U			20-0-0	
	1	6-0-0			4-0-0		4-0	-0			6-0-0	l l
Plate Offset	ts (X,Y)	[2:0-0-0,0-1-3], [3:0-6-0,0)-0-15], [5:0-6-	0,0-0-15], [6:	0-0-0,0-1-3]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.12	8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.23	8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MS						Weight: 84 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

Rigid ceiling directly applied or 9-5-0 oc bracing.

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

10-0-0

LUMBER-

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

WEDGE

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

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

Max Horz 2=59(LC 8)

Max Uplift 6=-377(LC 9), 2=-394(LC 8) Max Grav 6=1929(LC 1), 2=2010(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3515/720, 3-4=-3656/758, 4-5=-3656/758, 5-6=-3527/723 **BOT CHORD** 2-10=-617/3044, 8-10=-614/3021, 7-8=-571/3032, 6-7=-574/3055 **WEBS** 3-10=-64/496, 5-7=-66/505, 4-8=-741/267, 5-8=-201/894, 3-8=-203/903

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=377, 2=394.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 458 lb down and 150 lb up at 6-0-0, and 458 lb down and 150 lb up at 13-11-4 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=-90, 3-5=-90, 5-6=-90, 11-14=-20



June 29,2021

Continued on page 2



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

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

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



Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside
		l <u>.</u>			I46777181
2846773	E1	Hip Girder	1	1	
					LJob Reference (optional)

Valley Center, KS - 67147,

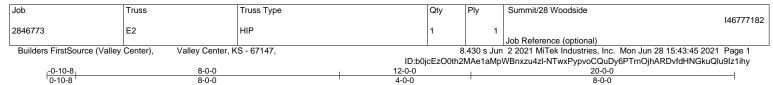
8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:44 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-vHMZCcoH1uI1boXDw7G9AUeFNVGqYu5agm0Lcsz1ihz

LOAD CASE(S) Standard

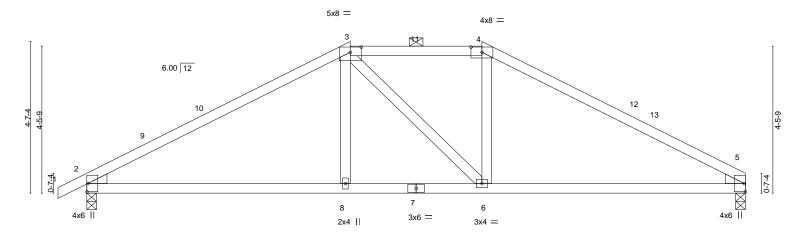
Concentrated Loads (lb)

Vert: 3=-114(F) 5=-114(F) 9=-59(F) 10=-458(F) 7=-458(F) 4=-114(F) 8=-59(F) 17=-114(F) 18=-114(F) 19=-59(F)





Scale = 1:35.0



	-	8-0-0 8-0-0		12-0-0 4-0-0		20-0-0 8-0-0	
Plate Offse	ets (X,Y)	[3:0-4-0,0-1-15], [4:0-4-0,0-1-15]					
LOADING TCLL TCDL BCLL	25.0 20.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.87 BC 0.73 WB 0.10	Vert(CT) -0.30	(loc) l/defl L/d 5-6 >999 240 5-6 >800 180 5 n/a n/a	PLATES GRIP MT20 197/144	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 73 lb FT = 20	%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*

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

BOT CHORD WEBS 2x4 SPF No.2 WEDGE

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

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

Max Horz 2=71(LC 12)

Max Uplift 2=-134(LC 12), 5=-114(LC 13) Max Grav 2=1178(LC 1), 5=1082(LC 1)

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

TOP CHORD 2-3=-1628/220, 3-4=-1286/248, 4-5=-1594/216 2-8=-113/1287, 6-8=-114/1282, 5-6=-101/1291 **BOT CHORD**

WEBS 3-8=0/262, 4-6=-1/262

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) except (jt=lb) 2=134, 5=114.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (4-7-15 max.): 3-4.

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



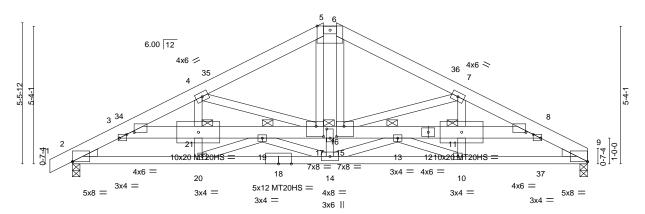
Job Truss Truss Type Qty Ply Summit/28 Woodside 146777183 2846773 E3 HIP GIRDER Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:46 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-rgTJdlqXZVYIr6hb1YJdFvjedJ0N0lTt74VShkz1ihx

Structural wood sheathing directly applied or 3-8-11 oc purlins,

15-1-5 4-10-5 4-10-11 4-10-11 9-9-0 4-10-5 4-10-11

> 8x12 = Scale = 1:44.7



10-3-0 030 0-3-0

[2: Edge, 0-0-2], [3:0-6-15, 0-2-10], [3:0-3-8, Edge], [5:0-6-0, 0-1-15], [8:0-6-15, 0-2-10], [8:0-3-8, Edge], [9:0-0-0, 0-0-2], [15:0-3-8, 0-4-12], [16:0-4-4, 0-1-8], [16:0-4-4, 0-Plate Offsets (X,Y)--[17:0-3-8.0-4-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.11 13 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.25 13 >978 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr NO	WB 0.42	Horz(CT) 0.10 9 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 276 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

except

2-0-0 oc purlins (4-4-12 max.): 5-6.

1 Brace at Jt(s): 21, 17, 11, 19, 13

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

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

5-6: 2x4 SPF No.2

2x6 SPF No.2 *Except*

BOT CHORD 2-18,9-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE

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

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

Max Horz 2=55(LC 9)

Max Uplift 9=-183(LC 13), 2=-191(LC 12) Max Grav 9=6254(LC 1), 2=6336(LC 1)

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

TOP CHORD 3-26=-11150/1570, 3-4=-11664/1654, 4-5=-8399/1225, 5-6=-7347/1107, 6-7=-8400/1229,

7-8=-11662/1649, 8-9=-11167/1591

BOT CHORD 2-20=-1313/9416, 14-20=-1234/8770, 10-14=-1227/8778, 9-10=-1319/9437,

3-21=-135/1069, 19-21=-135/1069, 17-19=-509/3633, 16-17=-16/497, 15-16=-16/497,

13-15=-508/3630, 11-13=-130/1061, 8-11=-130/1061

WEBS 4-21=-249/2087, 4-17=-3175/502, 5-17=-491/3422, 6-15=-494/3423, 7-15=-3174/502,

7-11=-247/2086, 14-16=-209/1784, 20-21=-304/95, 19-20=-92/705, 14-19=-2156/320,

10-11=-309/100, 10-13=-107/718, 13-14=-2164/323

NOTES-

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to

ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-9-0, Exterior(2E) 9-9-0 to 10-3-0, Exterior(2R) 10-3-0 to 14-5-15, Interior(1) 14-5-15 to 20-0-0 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

5) Provide adequate drainage to prevent water ponding.

6) All plates are MT20 plates unless otherwise indicated

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

Confin Lood an 109 the 2



June 29,2021

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

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

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



Job	Truss	Truss Type	Qty	Ply	Summit/28 Woodside
2846773	F2	HIP GIRDER	_	_	146777183
2040773	E3	FILE GIRDER	1	2	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:46 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-rgTJdlqXZVYlr6hb1YJdFvjedJ0N0lTt74VShkz1ihx

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

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

Vert: 1-5=-90, 5-6=-90, 6-9=-90, 22-25=-20, 28-31=-630(F=-610)



Job Truss Truss Type Qty Ply Summit/28 Woodside 146777184 2846773 LG1 **GABLE** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:47 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Js1hqer9KpgcSGGobGqso6Fz5iWqlG70MjE?DBz1ihw



Scale = 1:68.1 4x6 =

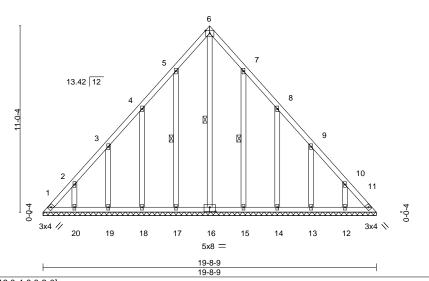


Plate Off	sets (X,Y)	[6:Edge,0-1-14], [16:0-4-0	,0-3-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	12014	Matri	x-S						Weight: 111 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-16, 5-17, 7-15

REACTIONS. All bearings 19-8-9

(lb) -Max Horz 1=258(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-112(LC 10), 17=-122(LC 12), 18=-127(LC 12),

19=-124(LC 12), 20=-122(LC 12), 15=-120(LC 13), 14=-128(LC 13), 13=-124(LC 13), 12=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 11, 16, 18, 19, 20, 14, 13, 12 except 1=265(LC 12), 17=254(LC

19), 15=252(LC 20)

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

TOP CHORD 1-2=-369/232, 2-3=-256/190, 10-11=-333/231

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-4, Exterior(2R) 9-10-4 to 12-10-4, Interior(1) 12-10-4 to 19-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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=112, 17=122, 18=127, 19=124, 20=122, 15=120, 14=128, 13=124, 12=122.
- 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.



June 29,2021



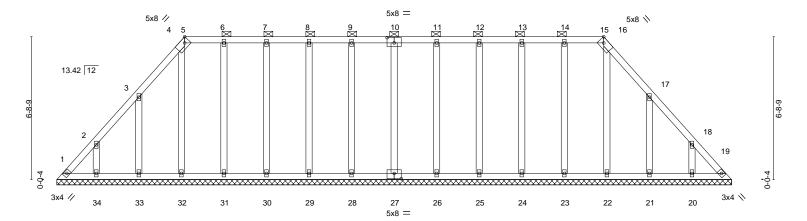
Job Truss Truss Type Qty Summit/28 Woodside 146777185 **GABLE** 2846773 LG2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:49 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-GF9SFJsQsQxKiaQAihsKtXLJmWBbDAhJp1j6l3z1ihu

19-8-6

Scale = 1:54.1

31-8-9

6-0-1



31-8-9 Plate Offsets (X,Y)--[5:0-2-10,Edge], [10:0-4-0,0-3-0], [15:0-2-10,Edge], [27:0-4-0,0-3-0] SPACING-**PLATES** LOADING (psf) DEFL. in (loc) I/defl L/d **GRIP** TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 197/144 n/a n/a MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 19 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 167 lb FT = 20%Matrix-S

31-8-9

LUMBER-**BRACING-**

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

2x4 SPF No.2 **BOT CHORD** 2-0-0 oc purlins (6-0-0 max.): 5-15. **OTHERS** 2x4 SPF No.2 **BOT CHORD**

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

REACTIONS. All bearings 31-8-9 (lb) -Max Horz 1=-156(LC 8)

6-0-1

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except

33=-136(LC 12), 34=-119(LC 12), 21=-138(LC 13), 20=-119(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 34, 26, 25, 24, 23, 22, 20

except 33=253(LC 19), 21=255(LC 20)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-0-1, Exterior(2R) 6-0-1 to 10-3-0, Interior(1) 10-3-0 to 25-8-7, Exterior(2R) 25-8-7 to 29-10-4, Interior(1) 29-10-4 to 31-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except (jt=lb) 33=136, 34=119, 21=138, 20=119.
- 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.





Job Truss Truss Type Qty Ply Summit/28 Woodside 146777186 2846773 LG3 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:51 2021 | Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-CdHCg?ugO2B2xtaZq5uoyyQf9Ktth4?cHLCDMyz1ihs

7-11-12 7-11-12

> Scale = 1:52.6 4x6 =

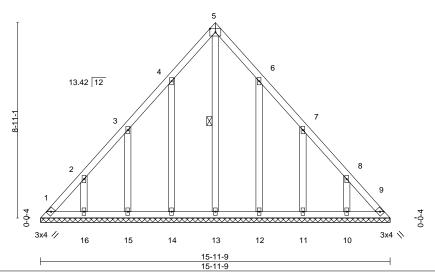


Plate Off	Plate Offsets (X,Y) [5:Edge,0-1-14]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	9	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S						Weight: 80 lb	FT = 20%	

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt 5-13

REACTIONS. All bearings 15-11-9.

Max Horz 1=207(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-126(LC 12), 15=-126(LC 12), 16=-126(LC 12),

12=-124(LC 13), 11=-126(LC 13), 10=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=255(LC 19), 12=253(LC 20)

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

TOP CHORD 1-2=-282/185, 8-9=-253/179

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-11-12, Exterior(2R) 7-11-12 to 10-11-12, Interior(1) 10-11-12 to 15-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=126, 15=126, 16=126, 12=124, 11=126, 10=125.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 29,2021



Job Truss Truss Type Qty Ply Summit/28 Woodside 146777187 2846773 LG4 **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:52 2021 | Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-gqratLul9LJuZ18lOpP1VAzqyjDKQZ5mW?ymvOz1ihr

3-10-10 3-10-10

> Scale = 1:29.1 4x6 =

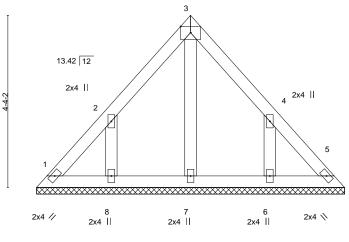


Plate Off	Plate Offsets (X,Y) [3:Edge,0-1-14]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	` -	n/a	999	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-P						Weight: 29 lb	FT = 20%	

LUMBER-

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

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

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

REACTIONS. All bearings 7-9-4.

(lb) -Max Horz 1=-96(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-140(LC 12), 6=-140(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=266(LC 19), 6=266(LC 20)

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

2-8=-254/156, 4-6=-254/156 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-10, Exterior(2R) 3-10-10 to 6-10-10, Interior(1) 6-10-10 to 7-5-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 5 except (jt=lb) 8=140 6=140
- 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.



June 29,2021



Job Truss Truss Type Qty Summit/28 Woodside 146777188 2846773 M1 Jack-Open 8

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

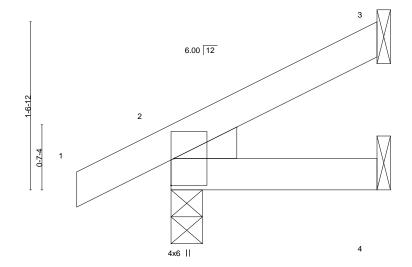
| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:53 2021 | Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-80Pz5hvwwfRIABjxxWxG1NV?j7ZT9?mvkfhJRqz1ihq

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

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



Scale = 1:10.7



1-10-15 1-10-15

BRACING-

TOP CHORD

BOT CHORD

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) -0.0	00 7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.0	00 7	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	00 3	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

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

Max Horz 2=49(LC 12)

Max Uplift 3=-23(LC 12), 2=-22(LC 12), 4=-3(LC 12) Max Grav 3=60(LC 1), 2=201(LC 1), 4=35(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/28 Woodside 146777189 2846773 M2 Jack-Open 8 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:53 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

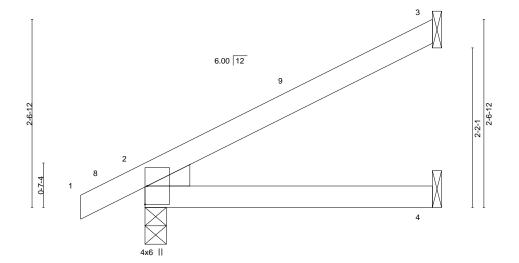
ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-80Pz5hvwwfRIABjxxWxG1NVz77X09?mvkfhJRqz1ihq

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

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

3-10-15 0-10-8 3-10-15

Scale = 1:15.7



LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.23 BC 0.19 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.02 4-7 >999 240 Vert(CT) -0.03 4-7 >999 180 Horz(CT) 0.01 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=84(LC 12)

Max Uplift 3=-52(LC 12), 2=-27(LC 12), 4=-1(LC 12) Max Grav 3=143(LC 1), 2=299(LC 1), 4=76(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 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 100 lb uplift at joint(s) 3, 2, 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.



June 29,2021



Job Truss Truss Type Qty Summit/28 Woodside 146777190 2846773 М3 Jack-Open 16 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:54 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-cCyLl1wYgzZcoLl8VESVab23hXnAuSi2zJRtzHz1ihp 0-10-8 4-5-10 1-6-6 Scale = 1:20.7 2x4 || 3 6.00 12 0-7-4 6 2x4 || 5 4x6 || 6-0-0

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) 0.10 >731 240 197/144 **TCLL** 1.15 TC 0.50 6-9 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.51 Vert(CT) -0.19 6-9 >375 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.03 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 19 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=123(LC 12)

Max Uplift 4=-42(LC 12), 2=-34(LC 12), 5=-38(LC 12) Max Grav 4=163(LC 1), 2=411(LC 1), 5=158(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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 100 lb uplift at joint(s) 4, 2, 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.







Job Truss Truss Type Qty Summit/28 Woodside 146777191 MONOPITCH SUPPORTED 2846773 M5 2

Builders FirstSource (Valley Center),

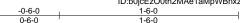
Valley Center, KS - 67147,

| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:55 2021 | Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-4PWjWNxBRGhTQVtK3xzk7obLexEBdvGCCzAQVjz1iho

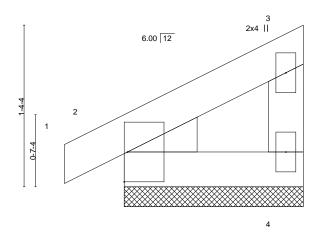
Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.



Scale = 1:9.6



4x6 ||

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.04	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	PLATES GRIP MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 6 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=1-6-0, 2=1-6-0

Max Horz 2=36(LC 9)

Max Uplift 4=-16(LC 12), 2=-16(LC 12) Max Grav 4=66(LC 1), 2=128(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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 100 lb uplift at joint(s) 4, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Summit/28 Woodside 146777192 2846773 M6 Jack-Open 9 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Yb45jjypCapK1eSWdfUzf07M4LVYMMxLQdw_29z1ihn 6-0-0 0-10-8 4-3-8 1-8-8 Scale = 1:20.7 2x4 || 6.00 12 6 5x8 = 0-7-4 3.00 12 4x6 =6-0-0 Plate Offsets (X,Y)--[2:0-1-8,0-2-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.70 Vert(LL) 0.10 6 >711 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.19 6 >375 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.04 5 n/a n/a BCDL Code IRC2018/TPI2014 FT = 20% 10.0 Matrix-AS Weight: 20 lb BRACING-LUMBER-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

WEBS

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

2-6: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=123(LC 12)

Max Uplift 4=-86(LC 12), 2=-34(LC 12)

Max Grav 4=304(LC 1), 2=411(LC 1), 5=33(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.









Job Truss Truss Type Qty Summit/28 Woodside 146777193 2 2846773 M7 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:43:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Yb45jjypCapK1eSWdfUzf07U4LYfMMWLQdw_29z1ihn

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

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

Scale = 1:15.7

3-10-15 0-10-8 3-10-15

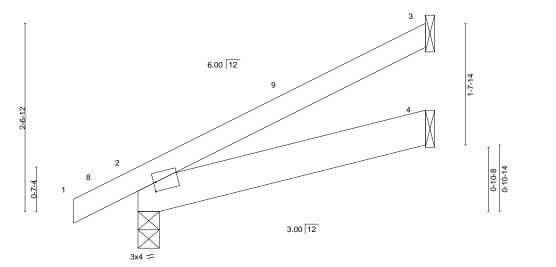


Plate Offsets (X,Y)--[2:0-0-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL 240 TCLL 25.0 1.15 TC 0.19 Vert(LL) 0.01 4-7 >999 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.13 Vert(CT) -0.01 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 14 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x6 SPF No.2

(size)

Max Horz 2=84(LC 12) Max Uplift 3=-47(LC 12), 2=-27(LC 12), 4=-5(LC 12)

Max Grav 3=128(LC 1), 2=299(LC 1), 4=89(LC 3)

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

3=Mechanical, 2=0-3-8, 4=Mechanical

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 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
- 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) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.



June 29,2021



Job Truss Truss Type Qty Summit/28 Woodside 146777194 2 2846773 M8 Jack-Open

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

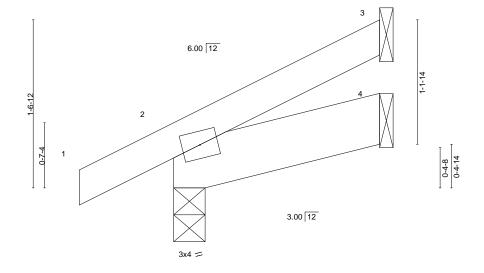
| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:43:57 2021 | Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-1neTx3yRzuxBfo1jAM?CCDggikwY5pmVfHfXacz1ihm

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

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

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

Scale = 1:10.7



LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL 1.15	TC 0.07	Vert(LL)	-0.00	` 7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	-0.00	7	>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-MP	, ,					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x6 SPF No.2

Max Horz 2=49(LC 12) Max Uplift 3=-21(LC 12), 2=-22(LC 12), 4=-4(LC 12) Max Grav 3=55(LC 1), 2=201(LC 1), 4=41(LC 3)

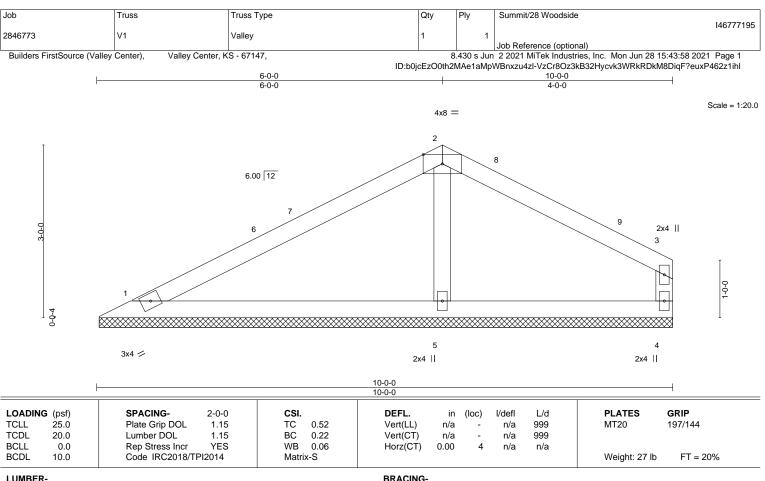
3=Mechanical, 2=0-3-8, 4=Mechanical

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.







TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

(size) 1=9-11-8, 4=9-11-8, 5=9-11-8

Max Horz 1=51(LC 9)

Max Uplift 1=-37(LC 12), 4=-59(LC 13), 5=-45(LC 12) Max Grav 1=289(LC 1), 4=230(LC 26), 5=523(LC 1)

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

2-5=-383/164 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.





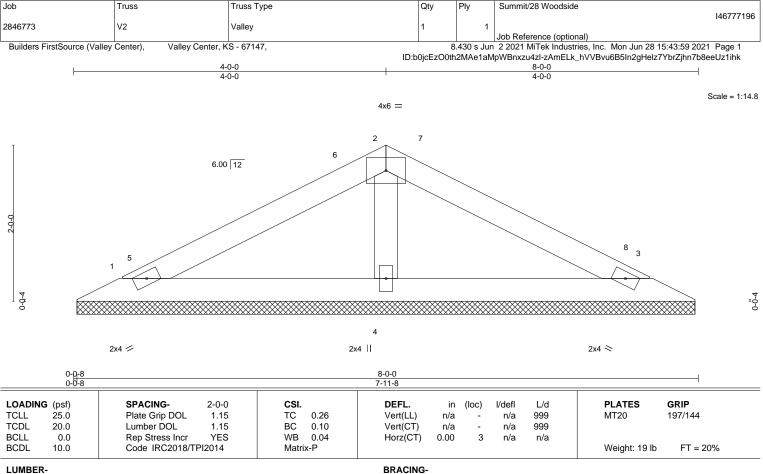


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





TOP CHORD

BOT CHORD

TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

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

REACTIONS. 1=7-11-0, 3=7-11-0, 4=7-11-0 (size)

Max Horz 1=27(LC 12)

Max Uplift 1=-32(LC 12), 3=-37(LC 13), 4=-11(LC 12) Max Grav 1=191(LC 1), 3=191(LC 1), 4=359(LC 1)

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

2-4=-274/135 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-4-7 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) 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.



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

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



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

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

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



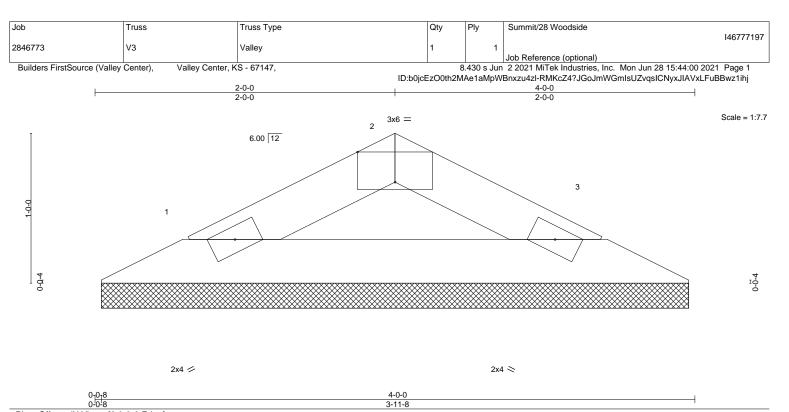


Plate Off	Plate Offsets (X,Y) [2:0-3-0,Edge]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-P						Weight: 8 lb	FT = 20%	

LUMBER-

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

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

REACTIONS.

(size) 1=3-11-0, 3=3-11-0 Max Horz 1=11(LC 16) Max Uplift 1=-15(LC 12), 3=-15(LC 13) Max Grav 1=151(LC 1), 3=151(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- 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.







Job Truss Truss Type Qty Summit/28 Woodside 146777198 2846773 V4 Valley Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:44:00 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-RMKcZ4?JGoJmWGmIsUZvqsIA0yxIIAVxLFuBBwz1ihj

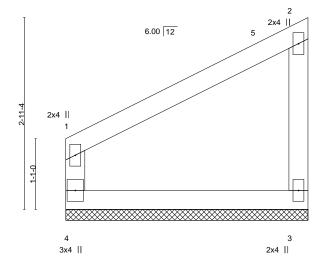
Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

3-8-8

Scale = 1:17.6



LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.19	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	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/TP	I2014	Matri	x-R						Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

4=3-8-8, 3=3-8-8 (size) Max Horz 4=93(LC 9) Max Uplift 4=-15(LC 12), 3=-41(LC 12) Max Grav 4=188(LC 1), 3=188(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4, 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.



Job Truss Truss Type Qty Summit/28 Woodside 146777199 2846773 V5 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:44:01 2021 Page 1

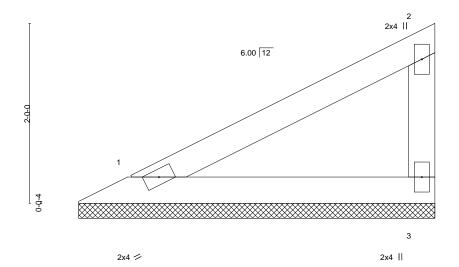
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-vYt_mQ?y16Rd8QLUPC48M3rK_MGG1dl4avdljNz1ihi 4-0-0

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

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

except end verticals.

Scale = 1:12.8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.24 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.10 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 1=3-11-8, 3=3-11-8 (size) Max Horz 1=60(LC 11)

Max Uplift 1=-19(LC 12), 3=-34(LC 12) Max Grav 1=177(LC 1), 3=177(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.





Job Truss Truss Type Qty Summit/28 Woodside 146777200 2846773 V6 Valley | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 28 15:44:02 2021 | Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-NIRM_m0aoQZUmZvgzvbNvHNVulcZm4?EpZNIFpz1ihh 3-11-4 Scale = 1:12.6 2x4 II 6.00 12 0-0-4 3 2x4 / 2x4 ||

LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.23 BC 0.10 WB 0.00 Matrix-P	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 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 10 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

WEBS 2x4 SPF No.2

> 1=3-10-12, 3=3-10-12 (size)

Max Horz 1=59(LC 9)

Max Uplift 1=-18(LC 12), 3=-33(LC 12) 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-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

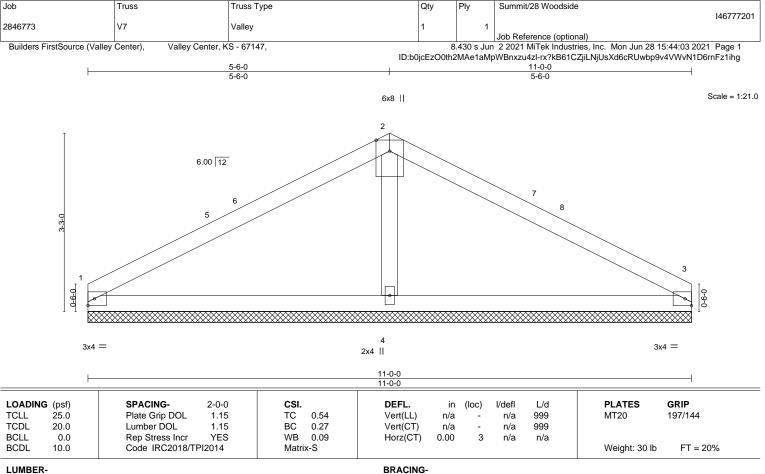


Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

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

OTHERS 2x4 SPF No.2

REACTIONS. 1=11-0-0, 3=11-0-0, 4=11-0-0 (size)

Max Horz 1=47(LC 16)

Max Uplift 1=-43(LC 12), 3=-52(LC 13), 4=-37(LC 12) Max Grav 1=284(LC 25), 3=284(LC 26), 4=645(LC 1)

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

2-4=-469/178 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-0-0 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) 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.



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

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



Job Truss Truss Type Qty Summit/28 Woodside 146777202 Valley 2846773 V8 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 28 15:44:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-rx?kB61CZjiLNjUsXd6cRUwef9xIVXaN1D6rnFz1ihg 4-6-0 Scale = 1:16.5 4x6 = 2 6.00 12 2x4 / 2x4 || 2x4 < 9-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.36 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 22 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=8-11-0, 3=8-11-0, 4=8-11-0 (size)

Max Horz 1=31(LC 16)

Max Uplift 1=-37(LC 12), 3=-43(LC 13), 4=-13(LC 12) Max Grav 1=220(LC 1), 3=220(LC 1), 4=412(LC 1)

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

2-4=-315/143 WEBS

NOTES-

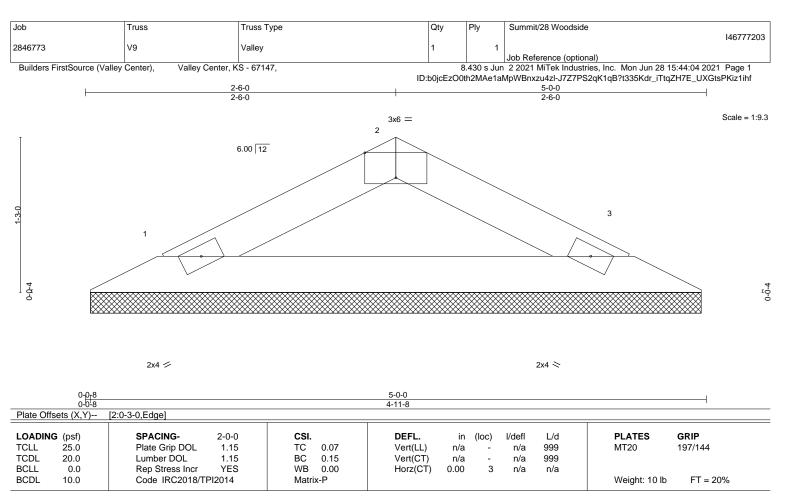
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-6-0, Exterior(2R) 4-6-0 to 7-6-0, Interior(1) 7-6-0 to 8-4-7 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) 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.



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

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





LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS.

1=4-11-0, 3=4-11-0 (size) Max Horz 1=15(LC 16)

Max Uplift 1=-21(LC 12), 3=-21(LC 13) Max Grav 1=206(LC 1), 3=206(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.







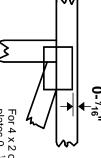


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



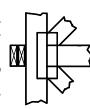
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

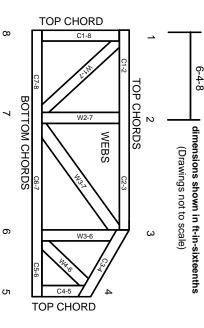
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.