

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

02/16/2021

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

Re: 2630568

Summit/woodside ridge #42/mo

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

Pages or sheets covered by this seal: I44692848 thru I44692897

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

Missouri COA: Engineering 001193



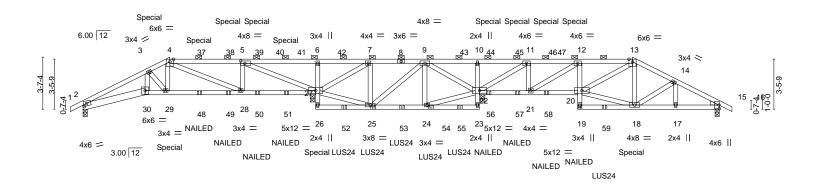
February 5,2021

Johnson, Andrew

,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.

RELEASE FOR Job Truss Truss Type Qty Ply Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 Α1 HIP GIRDER 2 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIZ: 49VIS COLUB In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-qYCB1jcd1G5drPMSp6PJJB2YYEW3BGJgKolbCOzoDla 27-5-0 3-9-5 30-9-12 3-4-12 + 40-11-13**02/16/2024** -10-8 2-11-13 **02/16/20 24-10**-8 1-8-8 5-0-8 5-0-8 3-4-12



		1-0 19-10-5 23-7-11 4-8 3-9-5 3-9-5	27-5-0 27 ₅ 9-8 30-9-12 34-2-8 3-9-5 0-4-8 3-0-4 3-4-12	38-0-0 40-11-13 44-0-0 3-9-8 2-11-13 3-0-3					
Plate Offsets (X,Y) [2:0-2-8,0-2-0], [5:0-3-8,0-2-0], [15:0-0-3,0-5-0], [15:0-0-1,0-0-3]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 NO Code IRC2018/TPI2014	CSI. TC 0.78 BC 0.56 WB 0.55 Matrix-MS	,	L/d PLATES GRIP 240 MT20 197/144 180 n/a Weight: 389 lb FT = 20%					

BOT CHORD

BRACING-LUMBER-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.

Max Horz 2=58(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-351(LC 12), 27=-952(LC 12),

22=-947(LC 13), 15=-399(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=1509(LC 37), 27=3868(LC

36), 22=3949(LC 36), 15=1684(LC 37)

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

TOP CHORD 2-3=-3713/942, 3-4=-3137/859, 4-5=-1935/518, 5-6=-499/2049, 6-7=-513/2111,

7-9=-85/411, 9-10=-495/2267, 10-11=-492/2251, 11-12=-1003/296, 12-13=-2884/764,

13-14=-2588/712, 14-15=-2586/652

BOT CHORD 2-30=-836/3261, 29-30=-808/3153, 28-29=-712/2801, 27-28=-441/1929, 6-27=-672/194, 24-25=-420/162, 22-23=-48/268, 10-22=-624/188, 21-22=-203/1003, 20-21=-643/2937,

12-20=-88/576, 18-19=-62/268, 17-18=-517/2223, 15-17=-517/2223

WEBS 3-30=-115/511, 3-29=-424/157, 4-29=-249/1043, 4-28=-1125/296, 5-28=-63/536,

5-27=-4313/1100, 25-27=-417/171, 7-27=-2068/525, 7-25=-187/872, 9-24=-186/869, 22-24=-437/164, 9-22=-2187/542, 11-22=-3818/924, 11-21=-251/1225, 12-21=-2268/563,

18-20=-480/2107, 13-20=-168/677, 13-18=-177/614, 14-18=-301/281

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 0-4-0 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

(6) rhinbalance lage v loads have been considered for this design.



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.

Scale = 1:79.7

February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A1	HIP GIRDER	1	2	Job Reference (opt	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, IncEE Schull 5.0012500182

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-lkmZF3dFoZDUTZxeNpwYrPbjleslwjZpZS19kqzoDIZ

NOTES7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2, 952 lb uplift at joint 27, 947 lb uplift at joint 22 and 399 lb uplift at joint 15.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 10-0-0 oc max. starting at 18-0-12 from the left end to 36-0-12 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 131 lb up at 6-0-0, 281 lb down and 131 lb up at 8-0-12, 281 lb down and 131 lb up at 10-0-12, 281 lb down and 131 lb up at 12-0-12, 281 lb down and 131 lb up at 14-0-12, 281 lb down and 131 lb up at 28-0-12, 281 b down and 131 lb up at 30-0-12, and 281 lb down and 131 lb up at 32-0-12, and 281 lb down and 131 lb up at 34-0-12 on top chord, and 534 lb down and 185 lb up at 6-0-0, and 347 lb down and 102 lb up at 16-2-12, and 880 lb down and 284 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

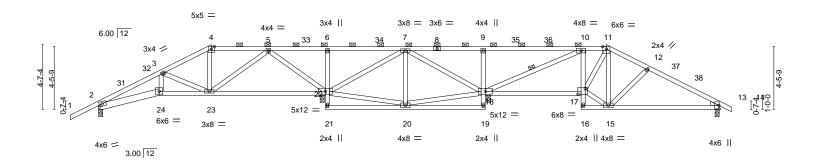
Vert: 1-4=-71, 4-13=-81, 13-16=-71, 30-31=-20, 27-30=-20, 23-26=-20, 20-22=-20, 19-34=-20

Concentrated Loads (lb)

Vert: 4=-254(F) 27=-347(F) 12=-250(F) 29=-534(F) 25=-347(F) 18=-880(F) 37=-250(F) 38=-250(F) 39=-250(F) 41=-250(F) 44=-250(F) 45=-250(F) 47=-250(F) 52=-347(F) 53=-347(F) 54=-347(F) 55=-347(F) 59=-347(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW HIP 2630568 A2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incept 36 UMM 37 M 25 GUR Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-0wumvHyBRsdfCjVqS_vuR5DJWW3LIw?om944BmzoDI8 36-0-0 38-10-12 1-9-8 2-10-12 02/16/2024-10-8 27-5-0 34-2-8 4-3-8 3-8-8 4-0-8 4-0-8 5-8-0 5-8-0 6-9-8



4-3-8	8-0-0 15-8-8	16 _r 1-0 21-9-0	27-5-0 27 ₋ 9-8 34-2-8 36-0-0	44-0-0							
4-3-8	3-8-8 7-8-8	0-4-8 5-8-0	5-8-0 0- ¹ 4- ¹ 8 6-5-0 1-9-8	8-0-0							
Plate Offsets (X,Y) [2:0-2-8,0-2-0], [13:0-0-1,0-0-3], [13:0-0-3,0-5-0], [17:0-6-4,0-4-12]											
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 0.90 BC 0.58 WB 0.63 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.11 22-23 >999 240 Vert(CT) -0.23 22-23 >858 180 Horz(CT) 0.06 13 n/a n/a	PLATES GRIP MT20 197/144 Weight: 197 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-4-3 max.): 4-11.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-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=96(LC 20) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-174(LC 16), 22=-331(LC 16),

18=-305(LC 17), 13=-174(LC 17)

Max Grav All reactions 250 lb or less at joint(s) except 2=979(LC 41), 22=1777(LC

56), 18=1631(LC 40), 13=935(LC 41)

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

TOP CHORD 2-3=-1565/297, 3-4=-865/169, 4-5=-722/179, 5-6=-121/841, 6-7=-108/829, 7-9=-35/523,

9-10=-28/481, 10-11=-960/244, 11-12=-869/222, 12-13=-1170/257

BOT CHORD 2-24=-273/1331, 23-24=-261/1281, 22-23=-35/261, 6-22=-533/150, 9-18=-694/194, 17-18=-80/1015, 10-17=-12/277, 13-15=-146/966

3-24=-34/251, 3-23=-705/200, 5-23=-90/714, 5-22=-1284/285, 7-22=-840/154,

WEBS 7-18=-533/136, 10-18=-1625/279, 15-17=-6/846, 11-17=-85/574, 12-15=-427/145

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pq=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) 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 174 lb uplift at joint 2, 331 lb uplift at joint 22, 305 lb uplift at joint 18 and 174 lb uplift at joint 13.





Scale = 1:81.7

February 5,2021



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

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	Δ2	HIP	1	1		AS NOTED ON PLANS REVIEW
2030300	/AZ				Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	lar 9 2020 MiTek In	dustries, IncEE SeSUMMIET MESSONED

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-0wumvHyBRsdfCjVqS_vuR5DJWW3Llw?om944BmzoDl8

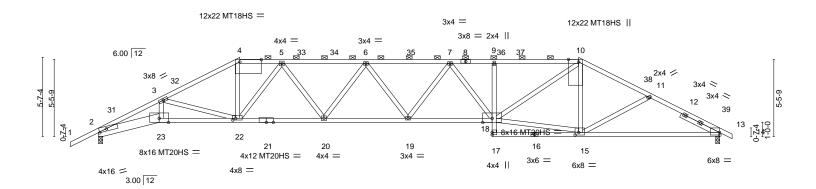
02/16/2021

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

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW HIP 2630568 **A3 DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:19/1025@UBM Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-yJ0XKzzRzTtNR1fDaPyMWWIfuKjvDkC5ETZBFezoDI6 24-10-12 27-10-8 34-0-0 02/16/2024-10-8 5-0-3 4-3-8 5-8-8 2-11-12 5-11-8 5-11-8 2-11-12 6-1-8 4-11-13



4-3-8 4-3-8	10-0-0 5-8-8 15-11-8	21-11-0 5-11-8	27-10-8 5-11-8	34-0-0 6-1-8	44-0-0 10-0-0	4
Plate Offsets (X,Y) [2:0-6-4,	,0-2-0], [4:1-6-4,0-2-0], [10:0-2-4,Edge],	[13:Edge,0-2-4], [15:0-3-0	0,0-2-4], [22:0-2-8,0	-1-8]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 0.91 BC 0.70 WB 0.97 Matrix-AS	- ' '	in (loc) I/defl -0.52 19 >999 -1.12 18-19 >470 0.41 13 n/a	L/d PLATES 240 MT20 180 MT20HS n/a MT18HS Weight: 213 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-0-9 max.): 4-10.

Rigid ceiling directly applied.

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

10-14: 2x4 SPF No.2, 8-10: 2x4 SP 2400F 2.0E

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

2-23: 2x8 SP 2400F 2.0E, 9-17,16-17: 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

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

Max Horz 2=114(LC 16)

Max Uplift 2=-393(LC 16), 13=-368(LC 17) Max Grav 2=2595(LC 2), 13=2501(LC 2)

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

TOP CHORD 2-3=-7070/1023, 3-4=-5034/710, 4-5=-4404/672, 5-6=-6043/869, 6-7=-6605/932,

7-9=-6105/877, 9-10=-6085/881, 10-11=-4029/587, 11-13=-4208/642

BOT CHORD 2-23=-949/6342, 22-23=-924/6149, 20-22=-739/5445, 19-20=-897/6573, 18-19=-862/6529,

9-18=-542/143, 15-17=-36/301, 13-15=-480/3669

WEBS 3-23=-111/1080, 3-22=-1760/381, 4-22=-240/1959, 15-18=-377/3350, 10-18=-483/3028, 10-15=-469/162, 11-15=-309/166, 5-22=-1743/337, 5-20=-149/1030, 6-20=-911/213,

7-18=-708/162

NOTES-

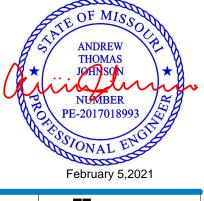
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-1-1, Interior(1) 1-1-1 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 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pq=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate

DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain

- surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) The Fabrication Tolerance at joint 10 = 12%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) 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.





Scale = 1:81.6



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

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A3	HIB	1	1		AS NOTED ON PLANS REVIEW
2030300	7.5	THE	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	lar 9 2020 MiTek In	dustries, IncEEiSeSUMMUT19M02SQURL

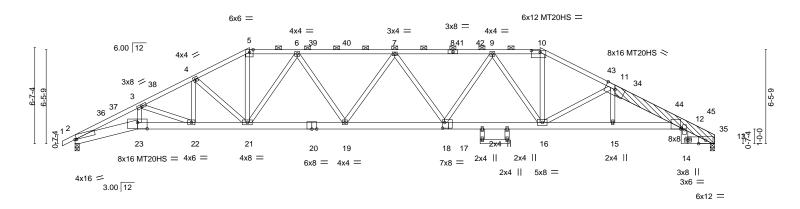
ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-yJ0XKzzRzTtNR1fDaPyMWWlfuKjvDkC5ETZBFezoDl6

02/16/2021

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 393 lb uplift at joint 2 and 368 lb uplift at joint 113.

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

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



₁ 4-3-8	8-1-12 12-0-0	18-6-13	25-5-3	₁ 27-10-8	29-10-8, 32-0-0	36-10-4	41-8-8 44-0-0	
4-3-8	3-10-4 3-10-4	6-6-13	6-10-6	2-5-5	2-0-0 2-1-8	4-10-4	4-10-4 2-3-8	
Plate Offsets (X,Y) [2:0-1-2	2,0-0-3], [10:0-7-4,0-1-8], [1	2:0-0-6,Edge], [17:0-1-1	2,0-4-12], [17:0-0	0-0,0-2-12], [23:0	-8-0,0-5-4]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 CS 1.15 TC 1.15 BC YES WE Pl2014 Ma	0.83	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.41 18-19 -0.92 18-19 0.43 13	l/defl L/d >999 240 >573 180 n/a n/a	PLATES MT20 MT20HS Weight: 258 lb	GRIP 197/144 148/108 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

5-8,8-10: 2x4 SPF 1650F 1.5E, 11-13: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-23: 2x8 SP 2400F 2.0E, 20-23,12-17: 2x6 SPF 2100F 1.8E

13-14,17-20: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except* 12-14: 2x6 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

LBR SCAB 11-13 2x8 SP 2400F 2.0E one side

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

Max Horz 2=118(LC 20)

Max Uplift 2=-364(LC 16), 13=-343(LC 17) Max Grav 2=2492(LC 2), 13=2411(LC 2)

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

TOP CHORD 2-3=-7138/1052, 3-4=-5531/806, 4-5=-4655/682, 5-6=-4072/633, 6-7=-5034/679, 7-9=-5024/670, 9-10=-4049/610, 10-11=-4669/649, 11-12=-5730/784, 12-13=-1294/207

2-23=-994/6395, 22-23=-962/6200, 21-22=-689/4912, 19-21=-597/4740, 18-19=-660/5275,

BOT CHORD

16-18=-526/4720, 15-16=-637/5311, 12-15=-638/5299

12-14=-80/612, 3-23=-127/985, 5-21=-228/1796, 10-16=-196/1752, 11-16=-1437/301, WEBS

6-21=-1401/286, 6-19=-110/638, 7-19=-481/182, 7-18=-497/184, 9-18=-112/653, 9-16=-1411/287, 11-15=0/260, 4-21=-1117/254, 4-22=-108/769, 3-22=-1386/293

NOTES-

- 1) Attached 7-11-3 scab 11 to 13, 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 11, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 3-1-9 from end at joint 11, nail 2 row(s) at 2" o.c. for 4-4-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 43-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.

(8) nAilh plates are de 720 plates unless otherwise indicated



February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568		 Hip	1	1		AS NOTED ON PLANS REVIEW
2030300	A4	11110	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	ar 9 2020 MiTek In	dustries, IncEEiSeSUMWU3:21/1035@UBb

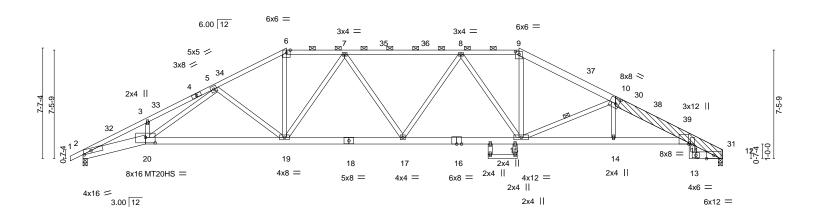
ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Muifz?0KGOFyIUNoFXV389wAJXhGQ6tXwRnrszzoDI3

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

- 10) Bearing at joint(s) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 2 and 343 lb uplift at joint 13.

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

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A5 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM/13:23/1/25/04/18 in Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-nTNob12CZJeW9y6Mwg2mmnYi?lmMdSwzcP0VTIzoDI0 27-10-8 30-0-0 1-10-8 2-1-8 41-8-8 **02/16/2021**4-10-8



4-3-6	9-0-0	8-0-0	5-10-0	0-1-8	0-0-0		5-2-6 2-3-6	
Plate Offsets (X,Y) [2:0-6-4,	,0-2-0], [9:0-3-0,0-2-4], [10:0-2-12,0-4-8]	[11:0-0-6,Edge], [20:0-8	-0,0-4-8]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 0.81 BC 0.76 WB 0.95 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.35 19-20 -0.81 19-20 0.43 12	l/defl >999 >651 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 268 lb	GRIP 197/144 148/108 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

30-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-8-6 max.): 6-9.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

6-9: 2x4 SP 2400F 2.0E, 9-10: 2x6 SPF No.2

10-12: 2x8 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 *Except*

2-20: 2x8 SP 2400F 2.0E, 18-20,11-16: 2x6 SPF 2100F 1.8E

21-22,22-23,15-23: 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

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

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

Max Horz 2=136(LC 20)

Max Uplift 2=-278(LC 16), 12=-256(LC 17) Max Grav 2=2492(LC 2), 12=2411(LC 2)

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

TOP CHORD 2-3=-7257/819, 3-5=-7201/894, 5-6=-4357/585, 6-7=-3781/553, 7-8=-4288/601, 8-9=-3764/553, 9-10=-4396/582, 10-11=-5774/711, 11-12=-1574/215

BOT CHORD 2-20=-754/6502, 19-20=-496/4612, 17-19=-449/4260, 15-17=-403/4235, 14-15=-584/5362,

11-14=-587/5351, 11-13=-95/835

3-20=-261/144, 5-20=-360/2303, 5-19=-1107/288, 6-19=-175/1618, 9-15=-157/1525, **WEBS**

7-19=-1021/256, 8-15=-1001/248, 10-15=-1805/355, 10-14=0/277

NOTES-

- 1) Attached 8-5-15 scab 10 to 12, 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 10, nail 2 row(s) at 7" o.c. for 3-5-9; starting at 3-8-7 from end at joint 10, nail 2 row(s) at 2" o.c. for 4-4-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 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 43-10-5 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
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



Scale = 1:79.3

February 5,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	idge #42/mo CONSTRUCTION
2630568	A5	 Hip	1	1		AS NOTED ON PLANS REVIEW
2000000	7.0				Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	ar 9 2020 MiTek In	dustries, IncEEiSeSUMMU3:25WU3SQUBD

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-nTNob12CZJeW9y6Mwg2mmnYi?lmMdSwzcP0VTlzoDI0

02/16/2021

10) 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.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 2 and 256 lb uplift at joint 12.

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

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

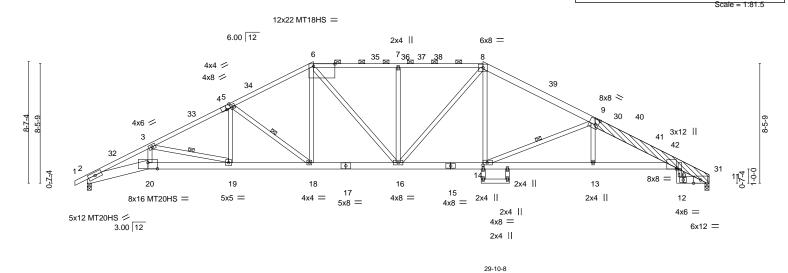


Plate Offsets (X,Y)--[4:0-3-11,Edge], [6:1-6-4,0-2-0], [9:0-2-8,0-4-12], [10:0-0-6,Edge], [14:0-3-8,0-2-0], [20:0-8-0,0-5-4] LOADING (psf) SPACING-2-0-0 (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.90 Vert(LL) -0.33 16-18 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.70 Vert(CT) -0.73 16-18 >717 180 MT20HS 148/108 TCDL 20.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.41 MT18HS 197/144 11 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 274 lb FT = 20%Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

3-19, 5-18, 9-14

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

Rigid ceiling directly applied.

1 Row at midpt

BCDL LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

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

BOT CHORD 2x4 SPF No.2 *Except*

10.0

2-20: 2x8 SP 2400F 2.0E, 17-20,10-15: 2x6 SPF 2100F 1.8E

10-12,11-12,15-17: 2x6 SPF No.2

2x4 SPF No.2 **WEBS**

OTHERS 2x8 SP 2400F 2.0E

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

REACTIONS.

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

Max Horz 2=154(LC 20)

Max Uplift 2=-298(LC 16), 11=-277(LC 17)

Max Grav 2=2492(LC 2), 11=2411(LC 2)

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

2-3=-7261/880, 3-5=-5081/648, 5-6=-3990/569, 6-7=-3775/581, 7-8=-3772/580,

8-9=-4085/563, 9-10=-5616/695, 10-11=-1574/216

BOT CHORD 2-20=-881/6521, 19-20=-853/6311, 18-19=-486/4481, 16-18=-280/3457, 14-16=-277/3483, 13-14=-561/5185, 10-13=-564/5174, 10-12=-96/835

3-20=-109/1102, 3-19=-1887/379, 5-19=-60/714, 5-18=-1376/308, 6-18=-132/925,

6-16=-157/684, 7-16=-734/194, 8-16=-153/647, 9-13=0/346, 8-14=-93/875,

9-14=-1962/405

NOTES-

WEBS

- 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 3-3-5 from end at joint 9, nail 2 row(s) at 2" o.c. for 5-6-15.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 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 43-10-5 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 DOI = 1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated

இர்கள்கள் நக்குற்று designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads



February 5,2021





						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A6	 Hip	1	1		AS NOTED ON PLANS REVIEW
2030300	7.0	11110	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	lar 9 2020 MiTek In	dustries, IncEEiSeSUMMI3:281/13504/Bb

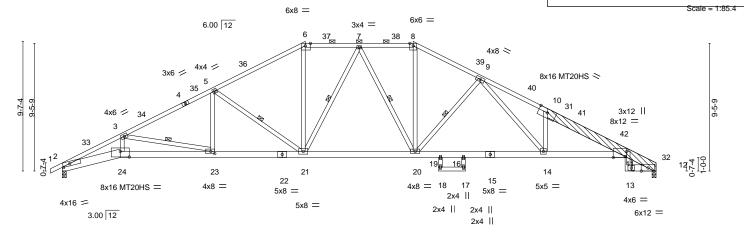
ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-B23wD24\$sE051PrxbocTOQABnyo0qucPINE93dzoDHz

10) 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.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2 and 277 lb uplift at joint 11.

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

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A7 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM/13:3/M/125/GUJE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-bdk3r47z89OgutZWHw9A02olf9pT1HPs_KTqgyzoDHw 30-11-10 02/16/2021 27-10-8 29-10-8 1-10-8 2-0-0 1-1-2



4-3-8 4-3-8	11-1-12 6-10-4	18-0-0 6-10-4	26-0-0 8-0-0	27-10-8 ₁ 29-10-		41-8-8 5-11-0	44-0-0 2-3-8	
	0-2-0], [6:0-4-10,Edge], [1					0110		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 T 1.15 E YES V	C 0.73 C 0.72 VB 0.50	Vert(CT) -0.	in (loc) I/defl 33 20-21 >999 74 20-21 >707 42 12 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDI 10.0	Code IRC2018/TF	PI2014 N	fatrix-AS				Weight: 273 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF 1650F 1.5E *Except*

6-8: 2x4 SPF No.2, 10-12: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-24: 2x8 SP 2400F 2.0E, 22-24,11-15: 2x6 SPF 2100F 1.8E

11-13,12-13,15-22: 2x6 SPF No.2

2x4 SPF No.2 **WEBS**

OTHERS 2x8 SP 2400F 2.0E

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

REACTIONS.

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

Max Horz 2=171(LC 20)

Max Uplift 2=-355(LC 16), 12=-334(LC 17) Max Grav 2=2492(LC 2), 12=2411(LC 2)

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

TOP CHORD 2-3=-7327/1088, 3-5=-4926/688, 5-6=-3699/544, 6-7=-3168/528, 7-8=-3162/520,

8-9=-3640/548, 9-10=-5546/822, 10-11=-5387/679, 11-12=-1574/238

BOT CHORD 2-24=-1089/6589, 23-24=-1056/6372, 21-23=-601/4306, 20-21=-278/3267 19-20=-362/3846, 16-19=-365/3792, 14-16=-362/3846, 11-14=-517/4912, 11-13=-107/835

WEBS 3-24=-135/1149, 3-23=-2112/465, 5-23=-58/692, 5-21=-1488/353, 6-21=-126/1126,

8-20=-147/1186, 9-20=-1139/298, 9-14=-286/1616, 10-14=-991/277, 7-21=-448/151,

7-20=-445/160

NOTES-

- 1) Attached 9-3-7 scab 10 to 12, 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 10, nail 2 row(s) at 7" o.c. for 3-0-15; starting at 4-5-13 from end at joint 10, nail 2 row(s) at 2" o.c. for
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 22-0-0, Interior(1) 22-0-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 43-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated

இர்கள்கள் நக்குற்று designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads



February 5,2021

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



Structural wood sheathing directly applied, except

3-23, 5-21, 9-20, 7-21, 7-20

2-0-0 oc purlins (2-11-6 max.): 6-8.

Rigid ceiling directly applied.

1 Row at midpt

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	idge #42/mo CONSTRUCTION
2630568	Δ7	Hip	1	1		AS NOTED ON PLANS REVIEW
2000000		1 115	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	ar 9 2020 MiTek In	dustries, IncEEiSeSUMMU3:31MU3SQUBL

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-bdk3r47z89OgutZWHw9A02olf9pT1HPs_KTqgyzoDHw

02/16/2021

- 10) 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.

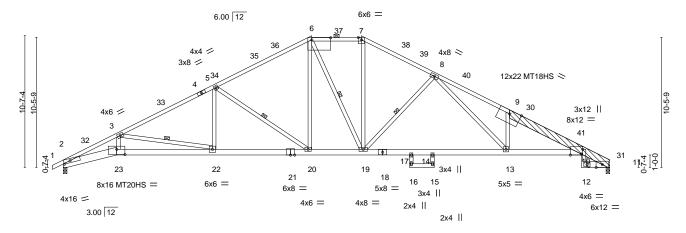
 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 334 lb uplift at joint 12.

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

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

RELEASE FOR Summit/woodside idge #42/mo CONSTRUCTION Job Truss Truss Type Qty AS NOTED ON PLANS REVIEW 2630568 **A8** Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM/13:3/M/25/GUBI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Y?spGm8DgneO7AjvOLCe5Tt2PzUqV818SeywkgzoDHu 44-0-0 1 6/2021 27-10-8 3-10-8 29-10-8 -0₋10₋8 0-10-8 4-3-8 12-1-12 20-0-0 7-10-4





4	-3-8 7-10-4	7-10-4	4-0-0	3-10-8 2-	0-0 '	5-11-0	1	5-11-0	2-3-8	
Plate Offsets (X,Y) [2:0-6-4	1,0-2-0], [6:1-6-4,0-2-0], [10:0-4	4-10,0-1-6], [10:0-10-1	0,Edge], [23:0-	8-0,0-5-0]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0	Plate Grip DOL Lumber DOL	-0-0 CSI. 1.15 TC 1.15 BC YES WB 114 Mati	I	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.76 0.42	(loc) 20 14 11	I/defl >999 >693 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 273 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

24-0-0

27-10-8 29-10-8

35-9-8

41-8-8

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-10-5 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

44-0-0

3-22, 5-20, 6-19, 8-19

20-0-0

LUMBER-

TOP CHORD

4-3-8

2x4 SPF 1650F 1.5E *Except* 6-7: 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, 21-23,10-18: 2x6 SPF 2100F 1.8E

12-1-12

10-12,11-12,18-21: 2x6 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

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

REACTIONS.

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

Max Horz 2=189(LC 20)

Max Uplift 2=-351(LC 16), 11=-329(LC 17) Max Grav 2=2492(LC 2), 11=2411(LC 2)

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

TOP CHORD 2-3=-7377/1099, 3-5=-4920/653, 5-6=-3527/528, 6-7=-2966/509, 7-8=-3478/531,

8-9=-5759/825, 9-10=-5532/665, 10-11=-1574/235

BOT CHORD 2-23=-1121/6649, 22-23=-1090/6432, 20-22=-576/4306, 19-20=-255/2962,

17-19=-342/3824, 14-17=-358/3751, 13-14=-342/3824, 10-13=-508/5071, 10-12=-106/835 WEBS 3-23=-133/1169, 3-22=-2312/522, 5-22=-40/732, 5-20=-1612/387, 6-20=-178/960, 6-19=-246/290, 7-19=-153/1114, 8-19=-1246/340, 8-13=-311/1773, 9-13=-1012/303

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 0-0-15 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-5-13 from end at joint 9, nail 2 row(s) at 2" o.c. for 4-4-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 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 43-10-5 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
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continued it in plage azing surface.



Scale = 1:92.8

February 5,2021





						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	٨٩	 Hip	1	1		AS NOTED ON PLANS REVIEW
2030300	100	11110	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	ar 9 2020 MiTek In	dustries, IncEEiSeSUMMI3:33MI3SOURD

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Y?spGm8DgneO7AjvOLCe5Tt2PzUqV818SeywkqzoDHu

02/16/2021

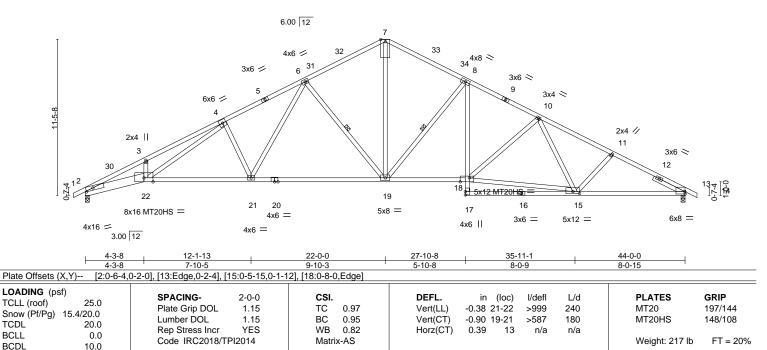
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 329 lb uplift at joint 11.

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

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

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A9 Roof Special 3 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incept 36 UMM 33 34 25 GUR In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-UO_ahRAUCQu6MUtHWmE6AuyNtn7pz0RRvyR1pjzoDHs 27-10-8 33-2-14 4**02/16/2021**0-8 4-3-8 5-10-13 5-11-2 5-10-8 5-10-8 5-4-6 5-4-6 Scale = 1:84.5

8x16 MT20HS ||



BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

6-19, 8-19

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 *Except*

1-5,9-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x8 SP 2400F 2.0E, 20-22: 2x4 SPF 1650F 1.5E

13-16: 2x4 SP 2400F 2.0E

WEBS 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=-201(LC 21)

Max Uplift 2=-347(LC 16), 13=-349(LC 17)

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

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

2-3=-7165/1045, 3-4=-7153/1165, 4-6=-4551/684, 6-7=-3030/502, 7-8=-3033/500, TOP CHORD

8-10=-3860/548, 10-11=-4043/576, 11-13=-4249/591

BOT CHORD 2-22=-1076/6423, 21-22=-650/4381, 19-21=-404/3361, 18-19=-247/3374, 8-18=-131/815, 15-17=-8/320, 13-15=-435/3693

WEBS 3-22=-296/169, 4-22=-528/2454, 4-21=-982/312, 6-21=-233/1253, 6-19=-1192/355,

7-19=-277/2030, 8-19=-1188/330, 15-18=-327/3353, 10-18=-455/206

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- All plates are MT20 plates unless otherwise indicated.
- 7) The Fabrication Tolerance at joint 7 = 16%
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2 and 349 lb uplift at joint 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere naestagia 12 dard ANSI/TPI 1



February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	idge #42/mo CONSTRUCTION
2630568	A9	Roof Special	3	1		AS NOTED ON PLANS REVIEW
	7.10	Troop openia.			Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	lar 9 2020 MiTek In	dustries, IncEEriSeSUMMUT34MUSSOURD

8.240 s Mar 9 2020 MiTek Industries, IncEE School 3.34035 Objet Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-UO_ahRAUCOu6MUtHWmE6AuyNtn7pz0RRvyR1pjzoDHs

02/16/2021

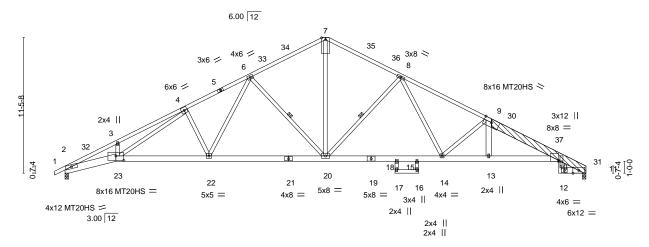
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

bottom chord.



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A9A Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIT: 3 MISSO LIPE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Qn6K67Bkk?8pco1gdBGaFJ2lYat8RykkNGw8tbzoDHg + 41-8-8 2-5-14 2-3-8 0 10-8 29-10-8 28-4-5 0-5-13 1-6-3

8x16 MT20HS II



31-10-3 Plate Offsets (X,Y)-- [10:0-0-6,Edge], [23:0-8-0,0-4-8]

BRACING-

WEBS

TOP CHORD

BOT CHORD

LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	OI ACINO-	2-0-0

LONDING (p.	01)	SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0		2-0-0	COI.	
- (/		Plate Grip DOL	1.15	TC.	0.77
Snow (Pf/Pg)	15.4/20.0			50	0.70
TCDL `	20.0	Lumber DOL	1.15	BC	0.70
ICDL	20.0	Rep Stress Incr	YES	WB	0.64
BCLL	0.0				
		Code IRC2018/Ti	212014	Matrix	x-AS
RCDI	10.0			1	

DEFL (loc) I/defl L/d Vert(LL) -0.32 22-23 >999 240 Vert(CT) -0.71 18-20 >739 180 Horz(CT) 0.40 n/a n/a 11

1 Row at midpt

Structural wood sheathing directly applied.

6-20, 8-20

Rigid ceiling directly applied.

PLATES GRIP MT20 197/144 MT20HS 148/108

Weight: 279 lb FT = 20%

Scale = 1:97.3

LUMBER-

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

5-7: 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, 21-23,10-19: 2x6 SPF 2100F 1.8E

10-12,11-12,19-21: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except*

9-13: 2x6 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

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

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

Max Horz 2=207(LC 20)

Max Uplift 2=-347(LC 16), 11=-325(LC 17) Max Grav 2=2492(LC 2), 11=2411(LC 2)

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

TOP CHORD 2-3=-7218/1059, 3-4=-7206/1182, 4-6=-4631/692, 6-7=-3070/500, 7-8=-3077/505,

8-9=-4565/612, 9-10=-5488/713, 10-11=-1574/233

BOT CHORD 2-23=-1094/6469, 22-23=-664/4446, 20-22=-433/3482, 18-20=-282/3466,

15-18=-287/3404, 14-15=-282/3466, 13-14=-555/5046, 10-13=-556/5030, 10-12=-104/835 **WEBS** 3-23=-297/173, 4-23=-530/2415, 4-22=-928/295, 6-22=-228/1252, 6-20=-1250/364,

7-20=-270/2035, 8-20=-1226/359, 8-14=-152/1063, 9-14=-1396/343

NOTES-

- 1) Attached 9-2-5 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 7" o.c. for 2-0-0; starting at 4-4-11 from end at joint 9, nail 2 row(s) at 2" o.c. for 4-4-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 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 43-10-5 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
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) The Fabrication Tolerance at joint 7 = 12%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continuescity pageazing surface.



February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	idge #42/mo CONSTRUCTION
2630568	A9A	Roof Special	1	1		AS NOTED ON PLANS REVIEW
200000	7.67.1	Troop openia.			Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	lar 9 2020 MiTek In	dustries, IncEEiSeSUMMI3:37MI3SOURD

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Qn6K67Bkk?8pco1gdBGaFJ2lYat8RykkNGw8tbzoDHq

02/16/2021

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2 and 325 lb uplift at joint 11.

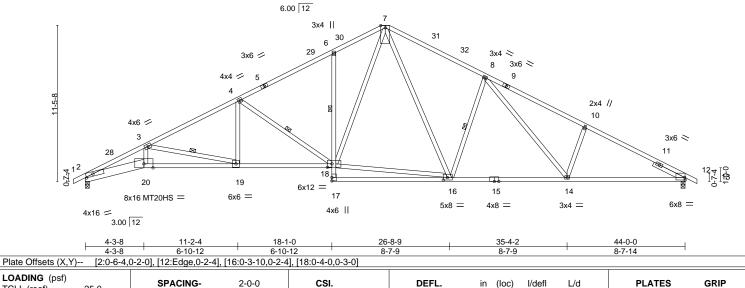
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A10 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIZ 5212 S QUE In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-E7uJgkfVkBUCit50VEz0wqg0vRSAOZ260mWGoizoDIX 44-0-**02/16/2021**0-8 7-4-3 29-3-14 4-3-8 6-10-12 6-10-12 3-11-0 7-3-14 7-3-14

8x16 MT20HS ||



BRACING-

TOP CHORD

BOT CHORD

WEBS

TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.96 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.92 TCDL 20.0 Rep Stress Incr YES WB 0.81 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-AS BCDL 10.0

Vert(LL) -0.32 18-19 >999 240 Vert(CT) -0.73 18-19 >723 180 Horz(CT) 0.32 12 n/a n/a

1 Row at midpt

1 Row at midpt

Structural wood sheathing directly applied.

6-18

3-19, 4-18, 8-16

Rigid ceiling directly applied. Except:

MT20 197/144 MT20HS 148/108

Weight: 224 lb FT = 20%

Scale = 1:84.5

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=201(LC 16)

Max Uplift 2=-347(LC 16), 12=-349(LC 17)

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

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

TOP CHORD 2-3=-7209/1064, 3-4=-4804/657, 4-6=-3594/526, 6-7=-3458/610, 7-8=-3311/569,

8-10=-4091/650, 10-12=-4243/579 2-20=-1098/6479, 19-20=-1066/6270, 18-19=-604/4221, 6-18=-425/200, 14-16=-252/3123,

BOT CHORD 12-14=-405/3687

3-20=-143/1160, 3-19=-2099/473, 4-19=-47/677, 4-18=-1393/347, 16-18=-174/2261, WEBS 7-18=-380/1666, 7-16=-293/974, 8-16=-961/362, 8-14=-198/725, 10-14=-466/237

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) The Fabrication Tolerance at joint 7 = 12%
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) 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
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2 and 349 lb uplift
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





OF MISSO

ANDREW

THOMAS

JOHNSON

NUMBER

PE-2017018993

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

						RELEASE FOR
lob	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A10	Roof Special	1	1		AS NOTED ON PLANS REVIEW
.030300	Alu	1001 Special	'	'	Job Reference (opt	onal) DEVELOPMENT SERVICES

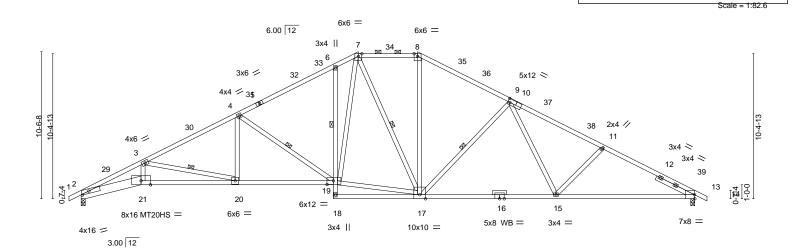
Builders FirstSource (Valley Center), 8.240 s Mar 9 2020 MiTek Industries, IncEE SeSUMMIZE 5.2025 OLUBE 2 Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-E7uJgkfVkBUCit50VEz0wqg0vRSAOZ260mWGoizoDIX

02/16/2021

12) 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. bottom chord.

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A11 Hip **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIZ 5 9 12 S O LUR In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-fhZSImhOd6snZKpbAMWjYSIZLfSZby5YjklwP1zoDIU 19-10-8 44-0-**02/16/202**48 6-7-11 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



	4-3-8	6-10-12	6-10-12	1-9-8	4-3-0	ı	9-11-1	- 1		9-11-7		
Plate Offsets (X,	Y) [2:0-6-4	,0-2-0], [10:0-1-12,0-3-0]	J, [10:0-0-0,0-1-12	2], [19:0-5-8,0-3	3-4]							
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL	25.0 0.4/20.0 20.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	BC 1.	89 00 66	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.33 19-20 -0.79 15-17 0.34 13	l/defl >999 >670 n/a	L/d 240 180 n/a	l M	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-A	S					V	Veight: 230 lb	FT = 20%

TOP CHORD

BOT CHORD

WFBS

24-1-8

34-0-9

19-10-8

18-1-0

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

11-2-4

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

4-3-8

Max Horz 2=-182(LC 21)

Max Uplift 2=-351(LC 16), 13=-353(LC 17)

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

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

2-3=-7209/1066, 3-4=-4939/665, 4-6=-3716/539, 6-7=-3537/605, 7-8=-2655/496,

8-9=-3149/509, 9-11=-4043/575, 11-13=-4280/601

BOT CHORD 2-21=-1081/6479, 20-21=-1049/6270, 19-20=-592/4357, 6-19=-409/174, 15-17=-299/3357, 13-15=-431/3744

3-21=-140/1161, 3-20=-2099/468, 4-20=-46/676, 4-19=-1454/347, 17-19=-203/2682, 7-19=-364/1798, 7-17=-602/164, 8-17=-113/859, 9-17=-1009/308, 9-15=-73/537,

11-15=-391/211

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pq=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 353 lb uplift Continueintofi3bage 2



44-0-0

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

Structural wood sheathing directly applied, except

6-19

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

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

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

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

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISSO

ANDREW

THOMAS

JOANSON

NUMBER

PE-2017018993

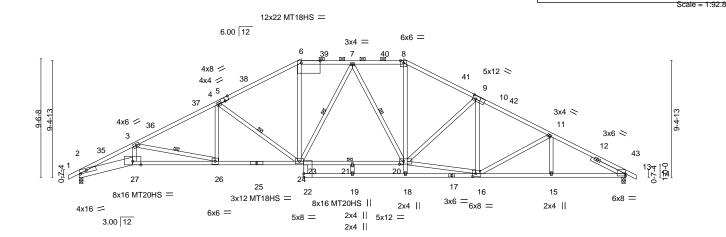
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	Λ11	Hip	1	1		AS NOTED ON PLANS REVIEW
2030300	All	11110	'	'	Job Reference (opt	ional) DEVELOPMENT SERVICES

8.240 s Mar 9 2020 MiTek Industries, IncEE Schull 5:51/2050 Day 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-fhZSlmhOd6snZKpbAMWjYSlZLfSZby5YjklwP1zoDlU

02/16/2021

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A12 Hip **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEErSeSUMWIZ:57MGSQURK Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-b4hCj\$ie9j6Voez_HnYBdtOtOSCf3rZrA2E0UwzoDIS 26-1-8 32-0-14 17-10-8 38-0-5 44-0-0 02/16/2021 4-3-8 6-9-8 6-9-8 4-1-8 4-1-8 5-11-6 5-11-6 5-11-11



4-3-8 6-9-8 6-9-8 0-2-8 3-11-0 4-1-8 5-11-6 5-11-6 Plate Offsets (X,Y)--[2:0-6-4,0-2-0], [5:0-4-0,Edge], [6:1-6-4,0-2-0], [10:0-3-0,0-3-0], [10:0-0-0,0-1-12], [13:Edge,0-2-4], [16:0-3-0,0-2-12], [20:0-4-0,0-2-12], [22:0-0-0,0-1-12], [23:0-0-0,0-1-12]

18-1-0 22-0-0

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.98 BC 0.71 WB 0.72	DEFL. in (loc) l/defl L/d Vert(LL) -0.33 24-26 >999 240 Vert(CT) -0.73 24-26 >717 180 Horz(CT) 0.34 13 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 MT18HS 197/144
BCLL 0.0 BCDI 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 234 lb FT = 20%

LUMBER-BRACING-TOP CHORD

11-1-0

2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except 1-5,10-14: 2x4 SPF 1650F 1.5E

26-1-8

2-0-0 oc purlins (2-11-12 max.): 6-8. Rigid ceiling directly applied.

32-0-14

38-0-5

44-0-0

BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** 2-27: 2x8 SP 2400F 2.0E, 25-27,13-17: 2x4 SP 2400F 2.0E **WEBS** 1 Row at midpt 3-26, 4-24, 7-24, 7-20

17-10-8

20-25: 2x4 SPF 1650F 1.5E **JOINTS** 1 Brace at Jt(s): 21

WEBS 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 21)

Max Uplift 2=-355(LC 16), 13=-357(LC 17) Max Grav 2=2490(LC 2), 13=2504(LC 2)

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

2-3=-7203/1064, 3-4=-4830/676, 4-6=-3664/541, 6-7=-3137/523, 7-8=-3087/523, TOP CHORD

8-9=-3557/540, 9-11=-3860/556, 11-13=-4222/593 2-27=-1059/6473, 26-27=-1029/6265, 24-26=-585/4237, 23-24=-276/3216,

BOT CHORD 21-23=-278/2797, 20-21=-278/2797, 19-22=0/419, 18-19=0/419, 16-18=0/477,

15-16=-431/3688, 13-15=-431/3688

WEBS 3-27=-135/1156, 3-26=-2080/455, 4-26=-51/670, 8-20=-140/1105, 16-20=-321/2952,

11-16=-382/164, 6-24=-124/1107, 4-24=-1452/341, 9-20=-536/223, 7-24=-404/156,

7-20=-497/156

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



February 5,2021



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A12	 Hip	1	1		AS NOTED ON PLANS REVIEW
2030300	A12	11110	'		Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	lar 9 2020 MiTek In	dustries, IncEE SeSUMMIZ 5 MISSOURD

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-b4hCj\$ie9j6Voez_HnYBdtOtOSCf3rZrA2E0UwzoDIS

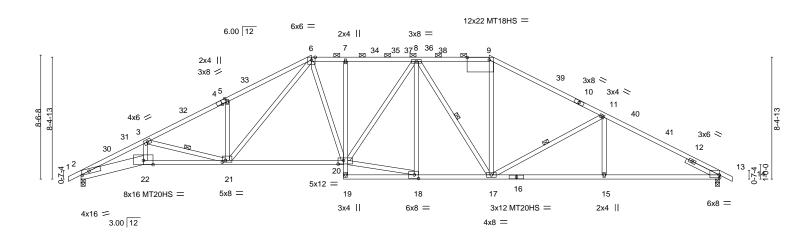
02/16/2021

9) 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.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 357 lb uplift at joint 2 and 357 lb uplift at joint 2 and 357 lb uplift at joint 13.

 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A13 Hip **DEVELOPMENT SERVICES** Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-?fMLLTXSeU3g6iZzw6uFW0Rzg9yGBIIs0Sh4FzoDIP 18-1-0 44-0<mark>02/16/2024</mark>4-10-8 7-11-7 -0<u>-10₋8</u> 0-10-8 15-10-8 28-1-8 4-3-8 5-9-8 5-9-8 2-2-8 5-0-4 5-0-4



4-3-8 +	10-1-0 5-9-8	15-10-8 5-9-8	18-1-0	23-1-4 5-0-4	28-1-8 5-0-4		i-0-9 11-1	44-0-0 7-11-7	4
Plate Offsets (X,Y) [2:0-6-4	1,0-2-0], [4:0-3-11,Edg	e], [9:1-6-4,0-2-0],	[13:Edge,0	-2-4], [18:0-3-8	,0-3-0], [20:0-4-8,	0-3-0], [21:0-2-	8,0-1-8]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DO Lumber DOL Rep Stress In Code IRC201	1.15 cr YES	CSI TC BC WB Mat	0.83 0.99	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.31 20-21 -0.75 20-21 0.33 13	I/defl L/d >999 240 >706 180 n/a n/a	MT20 MT20HS	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

3-21, 8-17, 11-17

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

Rigid ceiling directly applied.

1 Row at midpt

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

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

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

Max Horz 2=-146(LC 21)

Max Uplift 2=-359(LC 16), 13=-361(LC 17) Max Grav 2=2490(LC 2), 13=2504(LC 2)

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

TOP CHORD 2-3=-7153/1061, 3-5=-4999/704, 5-6=-5035/842, 6-7=-3625/556, 7-8=-3616/556,

8-9=-3014/514, 9-11=-3534/515, 11-13=-4237/597

BOT CHORD 2-22=-1036/6419, 21-22=-1003/6214, 20-21=-371/3410, 7-20=-451/118, 17-18=-271/3269,

15-17=-415/3680, 13-15=-415/3680

WEBS 3-22=-146/1128, 3-21=-1867/413, 5-21=-659/241, 18-20=-248/3214, 8-20=-163/678,

8-18=-574/93, 8-17=-671/157, 9-17=-102/921, 11-17=-884/269, 11-15=0/271,

6-21=-372/1731, 6-20=-149/851

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mpn; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pq=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 361 lb uplift

Continueintofi3bage 2



Scale = 1:79.4





						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A13	Hip	1	1		AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
					Job Reference (opt	onal) DEVELOT MENT OF THE

8.240 s Mar 9 2020 MiTek Industries, IncEE School 3.000 SOLUTION 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-?fMLLT XSeU3g6iZzw6uFW0Rzg9yGBIIs0Sh4FzoDIP

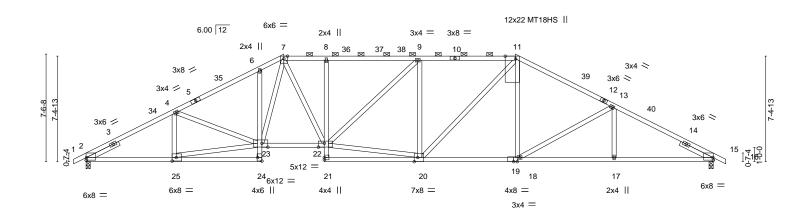
02/16/2021

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

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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW HIP 2630568 A14 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIT: 02/12/50 JUNE 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-y2U5m9mn_FknvPry4L8MKx5IBTrgk3UaKKxn97zoDIN 30-1-8 44<mark>02916/202</mark>44-10-8 6-11-7 -0₋10₋8 0-10-8 13-10-8 16-8-8 37-0-9 6-2-3 6-1-13 1-6-8 2-10-0 6-8-8 6-8-8 6-11-1



1 6-2-3	12-4-0 13-10-8 16-	8-8 23-5-0	30-1-8	37-0-9	₁ 44-0-0	
6-2-3	6-1-13 1-6-8 2-1	0-0 6-8-8	6-8-8	6-11-1	6-11-7	
Plate Offsets (X,Y) [2:Edge,0-2-	-4], [11:0-2-4,Edge], [15:Edge,0-2-4]	, [19:0-3-0,0-0-0], [20:0-3-0	,Edge], [22:0-5-0,0-3-4], [23	:0-5-0,0-3-4], [24:Edge	,0-3-8], [25:0-3-8,0-3-0]	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 0.91 BC 0.97 WB 0.94 Matrix-AS	DEFL. in (lo Vert(LL) -0.29 22-2 Vert(CT) -0.66 22-2 Horz(CT) 0.26 22-2	23 >999 240	PLATES MT20 MT18HS Weight: 224 lb	GRIP 197/144 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

2x4 SPF 1650F 1.5E TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

2-24,15-19: 2x4 SP 2400F 2.0E

2x4 SPF No.2 WEBS

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

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

Max Horz 2=128(LC 20)

Max Uplift 2=-363(LC 16), 15=-363(LC 17) Max Grav 2=2496(LC 2), 15=2496(LC 2)

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

TOP CHORD 2-4=-4214/602, 4-6=-4478/646, 6-7=-4387/719, 7-8=-4082/613, 8-9=-4067/614,

9-11=-3727/567, 11-13=-3713/543, 13-15=-4228/605 2-25=-566/3669, 24-25=-26/276, 6-23=-427/161, 22-23=-418/3652, 8-22=-617/171,

BOT CHORD 18-20=-268/3208, 17-18=-433/3680, 15-17=-433/3680

4-25=-576/150, 23-25=-547/3440, 4-23=-84/419, 20-22=-360/3547, 9-22=-174/525,

9-20=-1048/261, 11-20=-199/926, 11-18=-50/512, 13-18=-717/218, 7-23=-250/1117,

7-22=-209/1107

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-10-8, Exterior(2R) 13-10-8 to 18-1-7, Interior(1) 18-1-7 to 30-1-8, Exterior(2R) 30-1-8 to 34-4-7, Interior(1) 34-4-7 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) The Fabrication Tolerance at joint 11 = 8%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2 and 363 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuierenneshaterzdard ANSI/TPI 1.



Scale = 1:80.8

February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A14	HIP	1	1		AS NOTED ON PLANS REVIEW
					Job Reference (opt	onal) DEVELOPMENT SERVICES

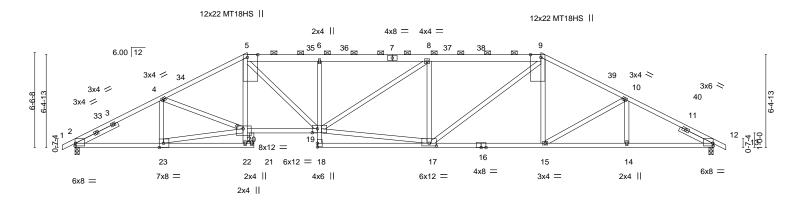
8.240 s Mar 9 2020 MiTek Industries, IncEE School 3.03/2035 OLJE 2 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-QE2TzVnPkZseXZQ8e2fbt8dwxtBvTWkkY_hLhazoDIM

NOTES12) 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. 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NOTES-

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW HIP 2630568 A15 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMU3.03/M25/03/03/03/03 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-MdAEOBpfGA6MmtaWITh3yZjlihwhxQp10HASmSzoDIK 32-1-8 16-8-8 38-0-9 1029-06/20244-10-8 5-11-7 12-4-0 0-5-8 5-11-7 5-11-1 4-4-8 7-8-8 7-8-8



5-11-7 5-11-7	11-10-8 12-4-0 16-8-8 5-11-1 0-5-8 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 Offsets (X,Y) [2:Edge,	,0-2-4], [5:0-2-4,Edge], [9:0-2-4,Edge], [1	2:Edge,0-2-4], [17:0-6-0,0-2	2-4], [19:0-4-4,0-3-4], [23:0-3-8	Edge], [24:0-5-4,0-2-4	1], [24:0-1-12,0-0-0]
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.76 BC 0.82 WB 0.90	DEFL. in (loc) Vert(LL) -0.30 19-20 Vert(CT) -0.69 19-20 Horz(CT) 0.27 12	l/defl L/d >999 240 >764 180 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 227 lb FT = 2

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

2x4 SPF 1650F 1.5E *Except* TOP CHORD 5-7,7-9: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-21,12-16: 2x4 SP 2400F 2.0E, 19-20: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*

17-19: 2x4 SPF 1650F 1.5E

SLIDER Left 2x4 SPF No.2 3-2-12, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=109(LC 20)

Max Uplift 2=-361(LC 16), 12=-366(LC 17) Max Grav 2=2505(LC 2), 12=2499(LC 2)

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

TOP CHORD 2-4=-4231/601, 4-5=-4627/654, 5-6=-4992/693, 6-8=-4953/689, 8-9=-4432/621,

9-10=-3878/572, 10-12=-4219/610

BOT CHORD 2-23=-548/3703, 19-20=-486/4064, 6-19=-799/204, 17-18=-24/332, 15-17=-320/3408, 14-15=-448/3675, 12-14=-448/3675

4-23=-601/152, 5-19=-288/1540, 17-19=-506/4152, 8-19=-214/714, 8-17=-1320/314, 9-17=-279/1466, 9-15=-26/416, 10-15=-500/164, 5-20=-81/682, 20-23=-543/3663,

4-20=-120/602

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=25ft; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) The Fabrication Tolerance at joint 5 = 12%, joint 9 = 8%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 2 and 366 lb uplift



Scale = 1:79.4

February 5,2021

Continuioint 1/2 age 2

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A15	HIP	1	1		AS NOTED ON PLANS REVIEW
2030300	A13		ļ ·		Job Reference (opt	ional) DEVELOPMENT SERVICES
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s N	lar 9 2020 MiTek In	dustries, IncEEiSeSUMMU3.04V23504JBb

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-MdAEOBplGA6MmtaWITh3yZjlihwhxQp10HASmSzoDIK

02/16/2021

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

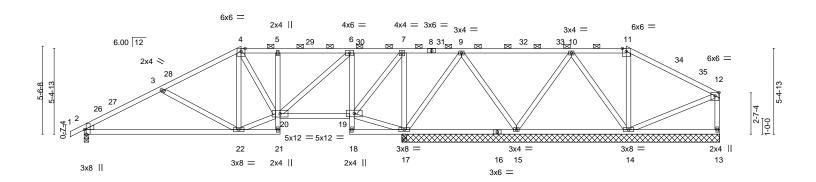
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

13) 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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A16 Hip Structural Gable **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMI3:07MI350MI31 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-I?I_ptqwonM4?BkvtukX1_odkUeVPPuJTbfYqLzoDII 30-8-0 4002/16/2021 5-10-8 -0-10-8 0-10-8 4-11-7 4-11-1 2-5-8 4-4-8 7-0-8 6-11-0 3-5-8



	-10-8 -10-8		6-8-8 1-4-8	20-3-8 3-7-0	27-2-8 6-11-0		34-1-8 6-11-0	-	40-0-0 5-10-8	
Plate Offsets (X,Y) [2:0-0-1,0)-0-3], [2:0-0-3,0-5-0], [2	2:0-3-8,Edge]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/7	2-0-0 1.15 1.15 YES FPI2014	CSI. TC BC WB	0.79 0.61 0.54 ix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 22-25 -0.30 22-25 0.02 17	l/defl >999 >814 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 189 lb	GRIP 197/144

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

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=139(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-172(LC 16), 14=-138(LC 17), 17=-389(LC 16),

15=-119(LC 17)

All reactions 250 lb or less at joint(s) except 2=1058(LC 41), 14=686(LC 57), 13=298(LC 41), Max Grav 17=2141(LC 40), 17=1874(LC 1), 15=612(LC 40)

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

TOP CHORD 2-3=-1437/269, 3-4=-933/182, 4-5=-713/182, 5-6=-728/186, 7-9=-142/771,

9-10=-57/264

BOT CHORD 2-22=-260/1209, 5-20=-399/111, 6-19=-1067/265, 15-17=-323/138

WEBS 3-22=-594/197, 20-22=-63/788, 6-20=-212/1013, 11-14=-406/121, 7-17=-1144/244,

17-19=-777/241, 7-19=-214/1167, 9-17=-792/180, 10-15=-565/148

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=172, 14=138, 17=389, 15=119.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Scale = 1:72.5

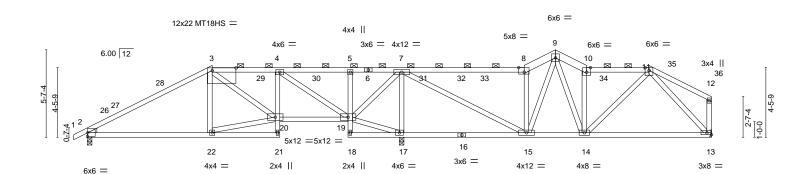
February 5,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A17 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IrlcEE'S & UMO/13:10/1050 DUR Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-jaz/Ruto5ilfseTUY0HFfdQ5rieZcjhm9ZtCRgzoDIF 30-0-0 32-0-0 2-0-0 2-0-0 02/16/2021 20-1-12 28-0-0 36-0-0 -0-10-8 0-10-8 8-0-0 4-4-0 4-4-8 3-5-4 2-2-8 5-7-12 4-0-0



8	-0-0 12-4-0 -0-0 4-4-0 .0-2-13], [2:0-5-0,0-0-3], [2:0-0-3,0-0-1]	16-8-8 20-1-12 4-4-8 3-5-4 , [3:1-6-4,0-2-0], [8:0-4-4,E	28-0-0 7-10-4 [dge], [10:0-3-0,Edge]	32-0-0 36-0 4-0-0 4-0-	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 0.99 BC 0.71 WB 0.73 Matrix-AS	DEFL. in (loc) Vert(LL) -0.12 22-25 Vert(CT) -0.26 22-25 Horz(CT) 0.04 2	l/defl L/d >999 240 >946 180 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 190 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-6,6-8: 2x4 SPF 1650F 1.5E, 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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=141(LC 15)

Max Uplift 2=-190(LC 16), 17=-423(LC 16), 13=-143(LC 17) Max Grav 2=1029(LC 48), 17=2763(LC 47), 13=877(LC 2)

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

TOP CHORD 2-3=-1264/247, 3-4=-975/263, 7-8=-752/192, 8-9=-913/242, 9-10=-1034/237,

10-11=-899/194

BOT CHORD 2-22=-205/1006, 4-20=-32/379, 19-20=-200/1003, 5-19=-257/74, 15-17=-928/163,

14-15=-104/648, 13-14=-133/619

WEBS 20-22=-198/987, 4-19=-1259/227, 17-19=-935/190, 7-19=-190/1041, 7-17=-2306/435, 7-15=-261/1795, 8-15=-952/258, 9-15=-117/291, 9-14=-129/680, 10-14=-800/179,

11-14=-21/396, 11-13=-834/173

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) The Fabrication Tolerance at joint 3 = 8%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Refer to girder(s) for truss to truss connections.

Continued on page 2



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-8-6 max.): 3-8, 10-11.

Rigid ceiling directly applied.

Scale = 1:73.8

February 5,2021

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	A17	Roof Special	1	1	Job Reference (opt	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

8.240 s Mar 9 2020 MiTek Industries, IncEE Schull 3:1 1/2025 Objet ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-BmXVfEtQs0tWUo1g6koUCqzGb5_oLAwvODdmz6zoDIE

02/16/2021

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=190, 17=423, 13=143.

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

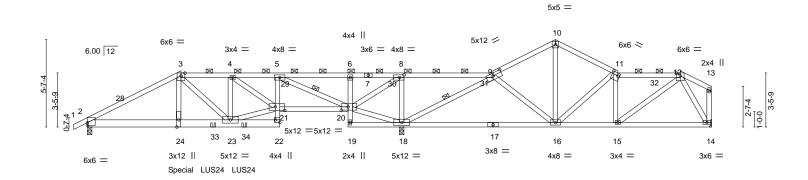
 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or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

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A18 Roof Special Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM/13:14/1/25/04/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-bLDeHGwJ\$xF4LFmFnsMBpTbo1J_9YZBL4BrQaRzoDIB

38-0-0<mark>02/1</mark>6/2621 21-4-4 26-0-0 30-0-0 34-0-0 2-11-13 3-2-0 3-2-0 4-4-8 3-5-4 1-2-8 4-7-12 4-0-0 -0-0

Scale = 1:73.8



	6-0-0 2-11-13	16-8-8 + 20-1-12 + 3-5-4 + 0], [11:0-4-8,0-2-0], [20:0-5-4	26-0-0 5-10-4 1,0-2-8], [21:0-7-4,0-2	30-0-0 4-0-0 2-12], [22:Edge,0-	34-0-0 4-0-0 3-8]	38-0-0 4-0-0 2-0-0	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 NO Code IRC2018/TPI2014	CSI. TC 0.92 BC 0.80 WB 0.63 Matrix-MS	Vert(CT) -	in (loc) l/de 0.15 16-18 >99 0.30 16-18 >78 0.07 18 n	99 240 88 180	PLATES MT20 Weight: 187 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 2-4-0 oc purlins, 7-9: 2x4 SPF 1650F 1.5E except end verticals, and 2-0-0 oc purlins (3-4-0 max.): 3-9, 11-12. 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD 2-22: 2x6 SPF No.2, 17-19: 2x4 SP 2400F 2.0E WEBS 1 Row at midpt 5-20, 9-18

WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 14=Mechanical, 18=0-3-8

Max Horz 2=141(LC 11)

Max Uplift 2=-419(LC 12), 14=-217(LC 76), 18=-682(LC 12) Max Grav 2=1772(LC 44), 14=720(LC 26), 18=3608(LC 43)

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

2-3=-2997/746, 3-4=-2723/676, 4-5=-2553/614, 5-6=-91/611, 6-8=-96/647, 8-9=-483/2322, 9-10=-785/310, 10-11=-780/291, 11-12=-896/313

BOT CHORD 2-24=-676/2628, 23-24=-666/2585, 22-23=-70/260, 5-21=-217/1052, 20-21=-598/2616,

6-20=-367/100, 16-18=-543/571, 15-16=-304/905, 14-15=-142/380

3-24=-229/1004, 5-20=-3442/780, 9-16=-103/817, 10-16=-184/285, 11-16=-563/137,

11-15=-357/168, 8-18=-1736/408, 18-20=-2315/537, 8-20=-465/2091, 9-18=-2239/392, 12-15=-215/706, 12-14=-706/260, 4-23=-370/204, 4-21=-396/194, 21-23=-604/2581

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=419, 14=217, 18=682.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at Continued of romate eleft end to 10-0-12 to connect truss(es) to back face of bottom chord.



February 5,2021



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

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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside ridge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 A18 Roof Special Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Inception (Industries, Inception (Industries, Inception (Industries, Inception (Industries, Industries, Industries,

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

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-bLDeHGwJ9xF4LFmFnsMBpTbo1J_9YZBL4BrQaRzoDIB

02/16/2021

13) Fill all nail holes where hanger is in contact with lumber.

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 880 lb down and 284 lb up at 6-0-0 dn bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-3=-71, 3-9=-81, 9-10=-71, 10-11=-71, 11-12=-81, 12-13=-71, 22-25=-20, 20-21=-20, 14-19=-20

Concentrated Loads (lb)

Vert: 24=-880(B) 33=-347(B) 34=-347(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 В1 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM/13:34/12564/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-uzfiJTCMVJGgDxcsBunpoXa5l_NsAYqtbwfhP2zoDHp 0-10-8 0-10-8 20-0-0 **02/16/20²⁰1**10-8 10-0-0 Scale = 1:38.0

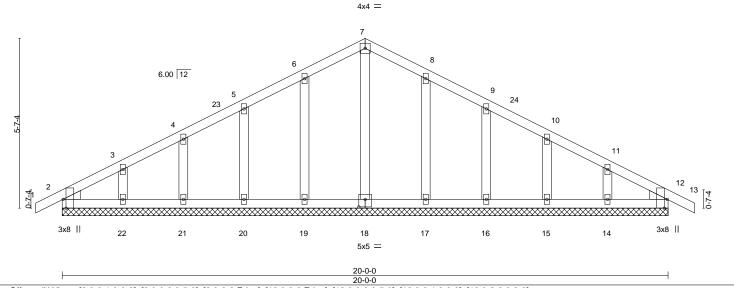


Plate Offsets (>	(,Y) [2:0-0-1,	0-0-3], [2:0-0-3,0-5-0], [2:0	0-3-8,Edge], [1	12:0-3-8,Edg	e], [12:0-0-3	<u>,0-5-0], [12:0-0-1,0</u>)-0-3], [1	8:0-2-8	,0-3-0]			
LOADING (psf TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0 25.0 15.4/20.0 20.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.07 0.03 0.08	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 12 13 12	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 81 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 WEDGE

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

REACTIONS. All bearings 20-0-0.

Max Horz 2=96(LC 20) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12

All reactions 250 lb or less at joint(s) 2, 18, 20, 21, 22, 16, 15, 14, 12 except 19=256(LC 23), Max Grav 17=256(LC 24)

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=25ft; 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1. DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12,
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

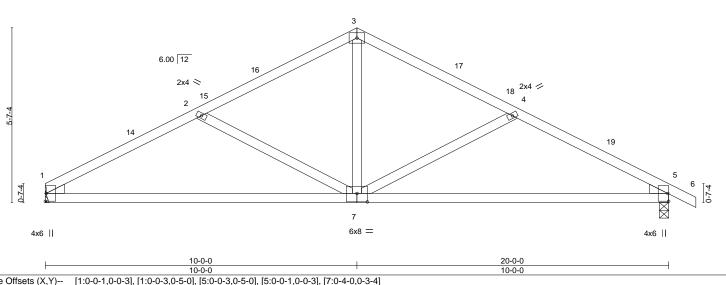
February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 B2 Common 3 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES

8.240 s Mar 9 2020 MiTek Industries, Inceetis-Summu: 3943550488 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-M9D4XpD_GdOXr5A3lcJ2Kk7BwOXnvyf1gaPFyUzoDHo 02/16/202²⁰⁻¹⁰⁻⁸ 5-0-3 4-11-13 4-11-13 5-0-3 Scale = 1:37.0

4x6 =



Flate Offsets (X, I) [1.0-0-1,	0-0-3], [1.0-0-3,0-3-0], [3.0-0-3,0-3-0], [3	5.0-0-1,0-0-3 <u>], [7.0-4-0,0-</u> 3)-4]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.39 BC 0.75 WB 0.30 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.13	(loc) 7-10 7-10 5	l/defl >999 >862 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 69 lb	GRIP 197/144
BCDL 10.0	00dc 11(02010/11 12014	Wattix 7.6						vvoignt. 00 ib	1 1 = 2070

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=-103(LC 21)

Max Uplift 1=-148(LC 16), 5=-168(LC 17) Max Grav 1=1098(LC 2), 5=1180(LC 2)

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

1-2=-1770/374, 2-3=-1324/295, 3-4=-1323/292, 4-5=-1765/368

BOT CHORD 1-7=-250/1511, 5-7=-249/1503

3-7=-88/638, 4-7=-499/207, 2-7=-507/208 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=148, 5=168,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



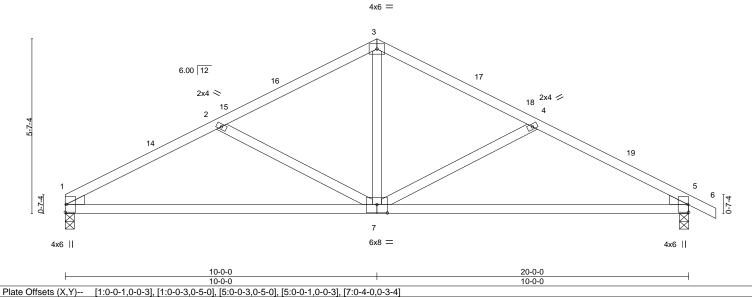
February 5,2021

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

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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 B₂A Common **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IrlcEE'S & UMO/13:41/1265 QURK Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-JYLryVFEoE/F4PKRs1LWP9CXQBDFNs9KluuL0NzoDHm **02/16/202**20-10-8 14-11-13 20-0-0 5-0-3 4-11-13 4-11-13 5-0-3 Scale = 1:37.0



LOADING (psf) SPACING-2-0-0 **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.13 7-10 >999 240 197/144 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.75 Vert(CT) -0.287-10 >862 180 TCDL 20.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.04 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 69 lb Matrix-AS BCDL 10.0

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 2x4 SPF No.2

WEBS WEDGE

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

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

Max Horz 1=-103(LC 21)

Max Uplift 1=-148(LC 16), 5=-168(LC 17) Max Grav 1=1098(LC 2), 5=1180(LC 2)

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

TOP CHORD 1-2=-1770/374, 2-3=-1324/295, 3-4=-1323/292, 4-5=-1765/368

BOT CHORD 1-7=-250/1511, 5-7=-249/1503

WEBS 3-7=-88/638, 4-7=-499/207, 2-7=-507/208

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=148, 5=168.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



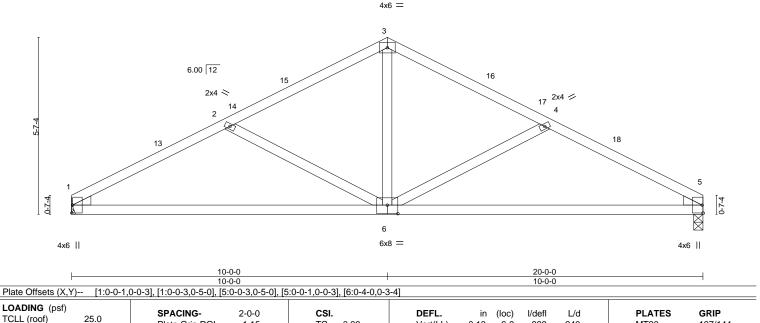
February 5,2021

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

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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 **B**3 Common 5 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13.42M25GUB. Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-nkvD9rFtZYn6iZveQkslyNliDbZS6IPTWYdvYpzoDHI 20-0-0 02/16/2021 4-11-13 4-11-13 5-0-3 Scale = 1:36.5



BCDL LUMBER-

TCDL

BCLL

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

Snow (Pf/Pg) 15.4/20.0

WEBS WEDGE

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

20.0

10.0

2x4 SPF No.2

0.0

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

Max Horz 1=88(LC 16)

Max Uplift 1=-148(LC 16), 5=-148(LC 17) Max Grav 1=1100(LC 2), 5=1100(LC 2)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

TC

BC

WB

Matrix-AS

0.39

0.75

0.30

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.13

-0.28

0.04

6-9

6-9

5

Rigid ceiling directly applied.

>999

>866

n/a

Structural wood sheathing directly applied.

240

180

n/a

MT20

Weight: 68 lb

197/144

FT = 20%

1-2=-1774/374, 2-3=-1328/296, 3-4=-1328/296, 4-5=-1774/374

BOT CHORD 1-6=-271/1514, 5-6=-266/1514

3-6=-89/640, 4-6=-507/208, 2-6=-507/208 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) 1=148, 5=148.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5,2021

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

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

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



RELEASE FOR Summit/woodside ridge #42/mo CONSTRUCTION Job Truss Truss Type Qty AS NOTED ON PLANS REVIEW 2630568 CJ₁ Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMM 3:43 W 25 O LyRh Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-FwTbNAGVKrvzKjUq_SN_Valtw???rmYdlCNS5FzoDHk 02/16/2021 1-2-14 4-2-3 Scale = 1:21.0

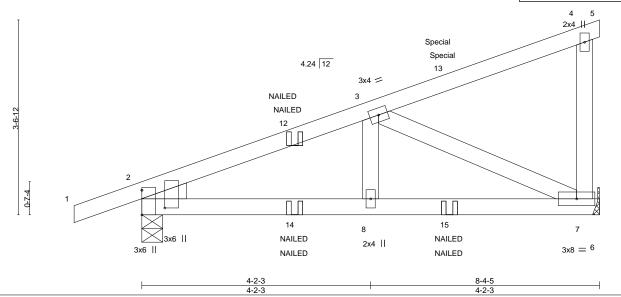


Plate Offsets (X,Y) [2:0-3-14	4,0-5-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.39 BC 0.35 WB 0.24 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.02	loc) l/de 7-8 >99 7-8 >99 7 n/	9 240 9 180	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=149(LC 11)

Max Uplift 7=-154(LC 12), 2=-162(LC 8) Max Grav 7=561(LC 19), 2=602(LC 2)

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

TOP CHORD 2-3=-745/181

BOT CHORD 2-8=-208/669, 7-8=-208/669

WEBS 3-7=-735/243

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) 7=154, 2=162.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 72 lb up at 5-7-7, and 87 lb down and 72 lb up at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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

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

except end verticals.

February 5,2021





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

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



RELEASE FOR Summit/woodside ridge #42/mo CONSTRUCTION
AS NOTED ON PLANS REVIEW1 Job Truss Truss Type Qty CJ1 2630568 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inception (Industries, Inception (Industries, Inception (Industries, Inception (Industries))

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-FwTbNAGVKrvzKjUq_SN_Valtw???rmYdlCNS5FzoDHk

02/16/2021

LOAD CASE(S) Standard

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

Uniform Loads (plf)

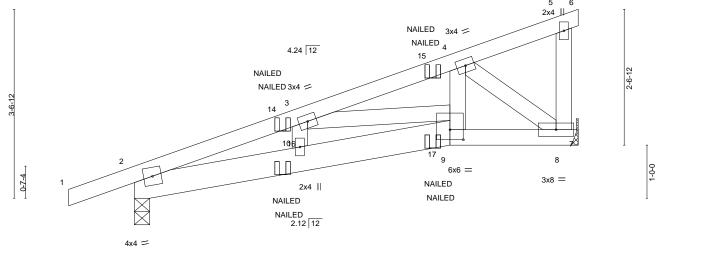
Vert: 1-4=-71, 4-5=-71, 6-9=-20

Concentrated Loads (lb)

Vert: 13=-113(F=-56, B=-56) 14=-13(F=-7, B=-7) 15=-68(F=-34, B=-34)



RELEASE FOR Job Truss Truss Type Qty Summit/woodside ridge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 CJ₂ Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:44/1/25/04/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-j71zaWH7591qxs30X9uD1oq6FPLhaFhm_s60dhzoDHj 5-11-5 8-4-5 02/16/2021 1-2-14 3-1-7 2-9-15 Scale = 1:21.7 2x4]



2-9-15

TOP CHORD

BOT CHORD

Plate Offsets (X,	Y) [9:0-3-0,0)-2-4]										
TCDL \	25.0 5.4/20.0 20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.16 0.32 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 10 9-10 8	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Code IRC2018/TF	PI2014	Matri	ix-MP						Weight: 35 lb	FT = 20%

LUMBER-BRACING-

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

2-9: 2x6 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 2=129(LC 9)

Max Uplift 8=-157(LC 12), 2=-165(LC 8) Max Grav 8=562(LC 19), 2=604(LC 2)

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

TOP CHORD 2-3=-1089/294, 3-4=-732/191

BOT CHORD 2-10=-325/994 9-10=-331/1023 8-9=-202/611 **WEBS** 3-9=-368/132, 4-9=-97/384, 4-8=-757/251

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=157, 2=165.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-5=-71, 5-6=-71, 9-11=-20, 7-9=-20



Structural wood sheathing directly applied or 5-7-6 oc purlins,

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

except end verticals.

February 5,2021





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

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



RELEASE FOR Summit/woodside ridge #42/mo CONSTRUCTION
AS NOTED ON PLANS REVIEW Job Truss Truss Type Qty CJ2 2630568 Diagonal Hip Girder | Job Reference (optional) | DEVELOPMENT SERVICES | 8.240 s Mar | 9 2020 MiTek Industries, Inception | 1 Company |

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-j71zaWH7591qxs30X9uD1oq6FPLhaFhm_s60dhzoDHj

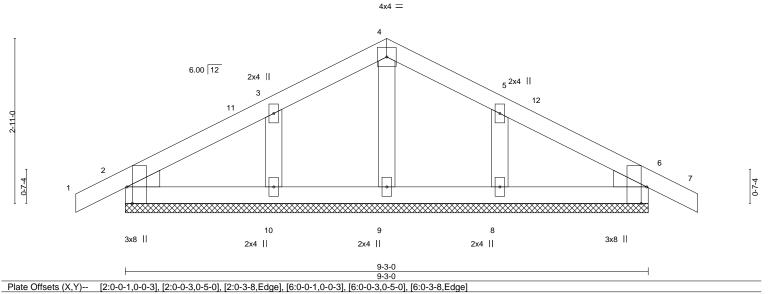
02/16/2021

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 15=-80(F=-40, B=-40) 16=-16(F=-8, B=-8) 17=-101(F=-50, B=-50)



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 D1 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13.43/1/25/03/18 in Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-BJaMmsllrT9hZ0eC5tPSa?NlpplEJjBvCWsZ98zoDHi 02/16/2021 0-10-8 4-7-8 4-7-8 Scale = 1:20.4



LOADING (psf) (loc) SPACING-2-0-0 I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.11 Vert(LL) 0.00 6 120 MT20 197/144 n/r Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.04 Vert(CT) 0.00 n/r 120 TCDL 20.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 32 lb Matrix-S BCDL 10.0

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 9-3-0.

Max Horz 2=-48(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=324(LC 23), 8=324(LC 24)

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

WFBS 3-10=-261/209, 5-8=-261/208

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



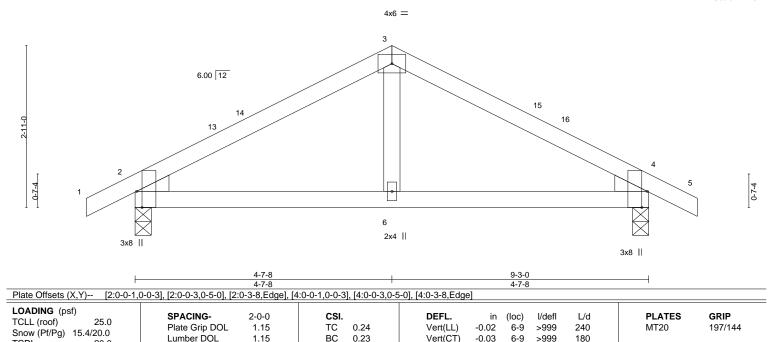
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 D2 Common **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13.44/1250418 h Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-fV8k?CINcmHYBADPfaxh6DvRVC2Y2AK3RAb6iazoDHh +02/16/2021 0-10-8 Scale = 1:20.7



LUMBER-

TCDL

BCLL

BCDL

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

WEBS WEDGE

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

20.0

10.0

2x4 SPF No.2

0.0

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

Max Horz 2=-48(LC 17)

Max Uplift 2=-88(LC 16), 4=-88(LC 17) Max Grav 2=587(LC 2), 4=587(LC 2)

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

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-3=-637/256, 3-4=-637/256 **BOT CHORD** 2-6=-114/500, 4-6=-114/500

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-8, 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

YES

WB

Matrix-AS

0.04

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

n/a

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

n/a

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.

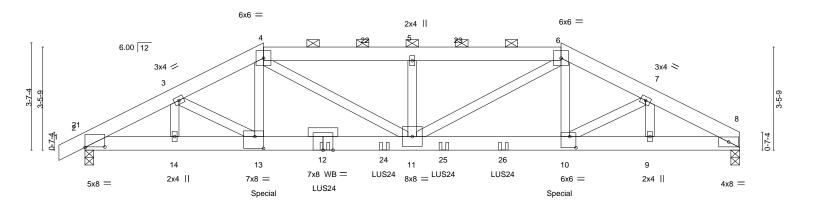


FT = 20%

Weight: 29 lb

February 5,2021





3-0-3	6-0-0	11-0-0	16-0-0	18-11-13	22-0-0
3-0-3	2-11-13	5-0-0	5-0-0	2-11-13	3-0-3
Plate Offsets (X,Y) [2:0-8-0,	0-0-3], [10:0-2-8,0-4-8], [13:0-3-8	8,0-4-12]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 NC Code IRC2018/TPI2014	TC 0.72 BC 0.54 WB 0.38	Vert(LL) -0.14 10-11 >9 Vert(CT) -0.30 10-11 >8	defl L/d 999 240 894 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 120 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

8-12: 2x6 SPF 2100F 1.8E

2x4 SPF No.2 WEBS

OTHERS 2x4 SPF No.2

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

Max Horz 2=66(LC 64)

Max Uplift 8=-609(LC 13), 2=-628(LC 12) Max Grav 8=2685(LC 37), 2=2777(LC 37)

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

TOP CHORD 2-3=-4935/1143, 3-4=-5376/1250, 4-5=-6138/1372, 5-6=-6138/1372, 6-7=-5393/1256,

7-8=-4959/1154

BOT CHORD 2-14=-1022/4344, 13-14=-1022/4344, 11-13=-1075/4810, 10-11=-1034/4826,

9-10=-981/4364, 8-9=-981/4364

3-14=-352/107, 3-13=-279/598, 4-13=-289/1226, 4-11=-367/1552, 5-11=-637/171, WFBS

6-11=-362/1533, 6-10=-295/1245, 7-10=-298/595, 7-9=-341/105

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=609, 2=628
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.





Structural wood sheathing directly applied or 2-10-12 oc purlins,

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

Rigid ceiling directly applied or 9-5-11 oc bracing

February 5,2021

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Summit/woodside ridge #42/mo CONSTRUCTION
AS NOTED ON PLANS REVIEWS Job Truss Truss Type Qty 2630568 E1 Hip Girder **DEVELOPMENT SERVICES**

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

Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Inceedias 1484435048 b ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-cuGUQuKd8OKGQUNnm?z9Ce?fY0f9W?ZMvU4DmTzoDHf

NOTES13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 880 lb down and 284 lb up at 6-0-0, and 880 lb down and 284 lb up at 6-0-0, and 880 lb down and 284 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-71, 4-6=-81, 6-8=-71, 15-18=-20

Concentrated Loads (lb)

Vert: 12=-347(B) 13=-880(B) 10=-880(B) 24=-347(B) 25=-347(B) 26=-347(B)

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 E2 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:501035010818 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-YHOFraLug?nzfnWAuQ?dH34zBqlb_yEfMoZKrLzoDHd $\frac{-0-10-8}{0-10-8}$ 14-0-0 02/16/2021 8-0-0 6-0-0 8-0-0 Scale = 1:38.0

12x22 MT18HS =

12x22 MT18HS =

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

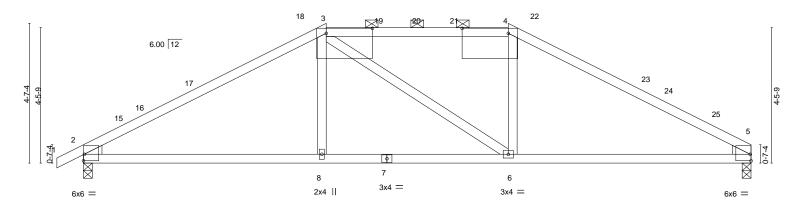


Plate Offsets (X,Y)--[2:0-0-3,0-0-1], [2:0-5-0,0-0-3], [2:Edge,0-2-9], [3:1-6-4,0-2-0], [4:1-6-4,0-2-0], [5:0-0-3,0-0-1], [5:0-5-0,0-0-3], [5:Edge,0-2-9] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.84 Vert(LL) -0.13 6-14 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.74 Vert(CT) -0.256-14 >999 180 MT18HS 197/144 TCDL 20.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.04 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 72 lb Matrix-AS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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=85(LC 20)

Max Uplift 2=-189(LC 16), 5=-169(LC 17) Max Grav 2=1323(LC 41), 5=1225(LC 41)

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

TOP CHORD 2-3=-1867/295, 3-4=-1542/318, 4-5=-1871/295 **BOT CHORD** 2-8=-183/1543, 6-8=-184/1537, 5-6=-171/1548

3-8=0/282, 4-6=0/283 **WEBS**

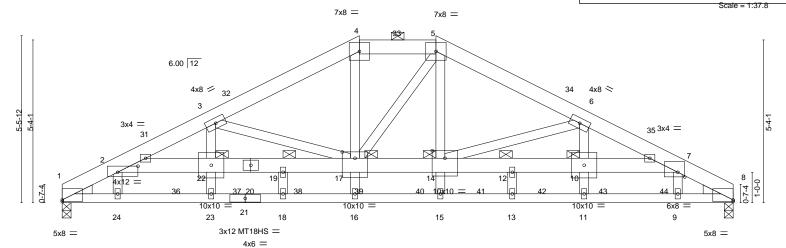
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 22-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) The Fabrication Tolerance at joint 4 = 16%, joint 3 = 16%
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 5=169
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5,2021



RELEASE FOR Summit/woodside ridge #42/mo CONSTRUCTION Job Truss Truss Type Qty Ply AS NOTED ON PLANS REVIEW 2630568 E3 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:544356448 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-UfW?FFN8Cc1hv5gZ?r15MU9Kld_?SnQxp52RvEzoDHb 12-3-1 22-**92/16/2021** 4-10-10 4-10-10 4-10-5 2-6-2 4-10-5



1-9-13	4-10-10 7-2-15	9-8-15	12-3-1	14-9-1	17-1-6	1 20-2-3	22-0-0
1-9-13	3-0-13 2-4-4	2-6-0	2-6-2	2-6-0	2-4-4	3-0-13	1-9-13
Plate Offsets (X,Y) [1:0-0-0,0-0-10], [2:0-8-0,0-2-6], [7:0-2-11,0-1-13], [8:0-0-0,0-0-10], [14:0-5-0,0-3-0], [17:0-5-0,0-2-8]							
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 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 NC Code IRC2018/TPI2014		74 \\ 68 \\ 45 \ H	DEFL. in /ert(LL) -0.02 /ert(CT) -0.25 Horz(CT) 0.10		240 MT 180 MT n/a	ATES GRIP 20 197/144 18HS 244/190 eight: 288 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

Structural wood sheathing directly applied, except

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

1 Brace at Jt(s): 17, 14, 22, 10, 12, 19

Rigid ceiling directly applied.

LUMBER-TOP CHORD 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except*

1-21,8-21: 2x4 SP 2400F 2.0E

2x4 SPF No.2 WEBS

WEDGE

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

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

Max Horz 1=85(LC 16)

Max Grav 1=6188(LC 40), 8=5990(LC 40)

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

TOP CHORD 2-26=-10351/0, 2-3=-11262/0, 3-4=-7846/0, 4-5=-6727/0, 5-6=-7699/0, 6-7=-11178/0,

7-8=-10292/0

BOT CHORD $1-24 = 0/8745,\ 23-24 = 0/8718,\ 18-23 = 0/8718,\ 16-18 = 0/8718,\ 15-16 = 0/8749,\ 13-15 = 0/8749,$ 11-13=0/8749, 9-11=0/8749, 8-9=0/8775, 2-22=0/1575, 19-22=0/1575, 17-19=0/1575,

14-17=-2004/0, 12-14=0/1460, 10-12=0/1460, 7-10=0/1460

WEBS 4-17=0/3109, 5-14=0/3102, 3-22=0/2324, 3-17=-3260/0, 6-14=-3309/0, 6-10=0/2337,

22-23=0/350, 10-11=0/361, 14-15=0/288, 12-13=-259/0, 2-24=-543/0, 7-9=-523/0

NOTES-

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.

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

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-8-15, Exterior(2E) 9-8-15 to 12-3-1, Exterior(2R) 12-3-1 to 16-6-0, Interior(1) 16-6-0 to 22-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated
- 9) All plates are 2x4 MT20 unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



February 5,2021



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

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

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
0000500	50		•			AS NOTED ON PLANS REVIEW
2630568	E3	Hip	1	2	Job Reference (opt	ional) DEVELOPMENT SERVICES
12) Load case(s) 1, 2, 3, 4	in accordance with the 2018	KS - 67147, International Residential Code se, 14, 15, 16, 17, 18, 19, 20, 21, 22, 8 has/have been modified. Building	ctions R502.11.1 and 23, 24, 25, 26, 27, 28	MAe1aMpWI R802.10.2 3, 29, 30, 31	and referenced sta , 32, 33, 34, 35, 36	37, 38, 39, 40, 41, 42, 43, 44,
truss. 13) This truss design requipottom chord. 14) Graphical purlin repres	ires that a minimum of 7/16" sentation does not depict the nnection device(s) shall be p	structural wood sheathing be appl	ied directly to the top	chord and 1	1/2" gypsum sheetr	ock be applied directly to the
Uniform Loads (plf) Vert: 1-4=-71, 4 Concentrated Loads (lb)	d): Lumber Increase=1.15, P 4-5=-81, 5-8=-71, 25-28=-20)	, 2-7=-20	045(5) 40 045(5)	42 045/E)	44 045(5)	
2) Dead + Roof Live (balar Uniform Loads (plf) Vert: 1-4=-90, 4 Concentrated Loads (lb)	nced): Lumber Increase=1.1 4-5=-90, 5-8=-90, 25-28=-20)	•	, , , , , , , , , , , , , , , , , , ,	,	,	
3) Dead + 0.75 Roof Live (Uniform Loads (plf) Vert: 1-4=-77, 4 Concentrated Loads (lb)	(balanced): Lumber Increase 4-5=-78, 5-8=-77, 25-28=-20)	=1.15, Plate Increase=1.15	, , , , , , , , , , , , , , , , , , ,	,	,	
Uniform Loads (plf) Vert: 1-4=-63, 4 Concentrated Loads (lb) Vert: 2=-915(F)	, 36=-915(F) 37=-915(F) 38=	, 2-7=-20 -915(F) 39=-915(F) 40=-915(F) 41	=-915(F) 42=-915(F)	43=-915(F)	44=-915(F)	
Uniform Loads (plf) Vert: 1-32=-63, Concentrated Loads (lb)			=-915(F) 42=-915(F)	43=-915(F)	44=-915(F)	
6) Dead + 0.75 Snow (Unit Uniform Loads (plf) Vert: 1-4=-47, 4 Concentrated Loads (lb)	oal. Right): Lumber Increase 4-5=-78, 5-34=-78, 8-34=-63)	=1.15, Plate Increase=1.15	, , , , , , , , , , , , , , , , , , ,	,	,	
7) Dead + Uninhabitable A Uniform Loads (plf) Vert: 1-4=-40, 4 Concentrated Loads (lb	Attic Without Storage: Lumber 4-5=-40, 5-8=-40, 9-25=-40,)	r Increase=1.25, Plate Increase=1. 9-28=-20, 2-7=-40	.25			
8) Dead + 0.6 C-C Wind (F Uniform Loads (plf) Vert: 1-31=29,	Pos. Internal) Case 1: Lumbo 4-31=20, 4-5=29, 5-34=29, , 4-31=-32, 5-34=41, 8-34=3		()		77=-310(F)	
Vert: 2=-915(F)	, 36=-915(F) 37=-915(F) 38=	915(F) 39=-915(F) 40=-915(F) 41 er Increase=1.60, Plate Increase=1	()	43=-915(F)	44=-915(F)	

Uniform Loads (plf)

Vert: 1-32=20, 4-32=29, 4-5=29, 5-35=20, 8-35=29, 25-28=-8, 2-7=-8

Horz: 1-32=-32, 4-32=-41, 5-35=32, 8-35=41 Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-56, 4-5=-56, 5-8=-56, 25-28=-20, 2-7=-20

Horz: 1-4=16, 5-8=-16

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-56, 4-5=-56, 5-8=-56, 25-28=-20, 2-7=-20

Horz: 1-4=16, 5-8=-16

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=0, 4-5=29, 5-8=13, 25-28=-8, 2-7=-8

Horz: 1-4=-12, 5-8=25

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

Continued on page 3



						RELEASE FOR
lob	Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONSTRUCTION
2630568	E3	Hip	1			AS NOTED ON PLANS REVIEW
				2	Job Reference (op	
Builders FirstSource (Valley	Center), Valley Center	r, KS - 67147,	ID-b0icEz00tb3N			dustries, Ir lcEE's SUMMI3:51Mt25 Objet B Cc1hv5gZ?r15MU9Kld_?SnQxp52RvEzoDHb
			ID.DOJCE2OOti12i	iine raivipvvi	111X2U42I-01VV :1 1 1VC	02/16/2021
LOAD CASE(S) Standard	d					02/10/2021
	Vind (Pos. Internal) Right: L	_umber Increase=1.60, Plate Increas	se=1.60			
Uniform Loads (plf) Vert: 1-4=13	4-5=29, 5-8=0, 25-28=-8, 2	2-7=-8				
Horz: 1-4=-25						
Concentrated Loads (I	,					
		38=-915(F) 39=-915(F) 40=-915(F) 4 umber Increase=1.60, Plate Increase) 43=-915(F) 44=-915(F)	
Uniform Loads (plf)	villa (Neg. Internal) Leit. Li	imber increase=1.00, Flate increase	=1.00			
. ,	, 4-5=-11, 5-8=-27, 25-28=	-20, 2-7=-20				
Horz: 1-4=-0,						
Concentrated Loads (I	,	38=-915(F) 39=-915(F) 40=-915(F) 4	41915(F) 42915(F) 43015/F) 44915(F)	
,	, , , , , , , , , , , , , , , , , , , ,	Lumber Increase=1.60, Plate Increase	. ,) 40= 310(1) ++= 313(1)	
Uniform Loads (plf)	, , ,					
	, 4-5=-11, 5-8=-40, 25-28=-	-20, 2-7=-20				
Horz: 1-4=-13 Concentrated Loads (I						
,	,	38=-915(F) 39=-915(F) 40=-915(F) 4	41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)	
,	Vind (Pos. Internal) 1st Par	allel: Lumber Increase=1.60, Plate I	ncrease=1.60			
Uniform Loads (plf)	4-33=29, 5-33=11, 5-8=11	25 20- 9 2 7- 9				
Horz: 1-4=-41		, 25-200, 2-70				
Concentrated Loads (I	lb)					
		38=-915(F) 39=-915(F) 40=-915(F) 4) 43=-915(F) 44=-915(F)	
Uniform Loads (plf)	vind (Pos. Internal) 2nd Pa	rallel: Lumber Increase=1.60, Plate	Increase=1.60			
" ,	4-33=11, 5-33=29, 5-8=29	, 25-28=-8, 2-7=-8				
Horz: 1-4=-23						
Concentrated Loads (I	,	38=-915(F) 39=-915(F) 40=-915(F) 4	/1015/F) /2015/F) /3015/E) 44015(F)	
		rallel: Lumber Increase=1.60, Plate I) 43=-313(1) 44=-915(1)	
Uniform Loads (plf)	,					
	4-33=16, 5-33=6, 5-8=6, 2	5-28=-8, 2-7=-8				
Horz: 1-4=-28 Concentrated Loads (I						
		38=-915(F) 39=-915(F) 40=-915(F) 4	41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)	
,	Vind (Pos. Internal) 4th Par	rallel: Lumber Increase=1.60, Plate I	ncrease=1.60			
Uniform Loads (plf)	-33=6, 5-33=16, 5-8=16, 2	5-288 2-78				
Horz: 1-4=-18		3 20				
Concentrated Loads (I	,					
		38=-915(F) 39=-915(F) 40=-915(F) 4 rallel: Lumber Increase=1.60, Plate I) 43=-915(F) 44=-915(F)	
Uniform Loads (plf)	villa (Neg. internal) 15t Fai	aller. Lumber increase=1.00, Plate i	nicrease=1.60			
\(\frac{1}{2}\)	, 4-33=-11, 5-33=-29, 5-8=	-29, 25-28=-20, 2-7=-20				
Horz: 1-4=-29						
Concentrated Loads (I	,	38=-915(F) 39=-915(F) 40=-915(F) 4	41915(F) <i>42</i> 915(F) 43015/F) 44915(F)	
		rallel: Lumber Increase=1.60, Plate) 10- 010(1) 11= 010(1)	
Uniform Loads (plf)						
	, 4-33=-29, 5-33=-11, 5-8=-	-11, 25-28=-20, 2-7=-20				
Horz: 1-4=-11 Concentrated Loads (I						
Vert: 2=-915(I	F) 36=-915(F) 37=-915(F) 3	38=-915(F) 39=-915(F) 40=-915(F) 4	41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)	
	Left): Lumber Increase=1.	15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-32=-7	1, 4-32=-91, 4-5=-91, 5-8=	-49 25-28=-20 2-7=-20				
Concentrated Loads (I		.0, _0 _20 _ 20, _ 1 _ 20				
Vert: 2=-915(I		38=-915(F) 39=-915(F) 40=-915(F) 4	41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)	
THE PROOF I PROMITING	Pignt): Lumber Incressed 1	15 Ulata Ingrasco 1 15				

Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-49, 4-5=-91, 5-34=-91, 8-34=-71, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

24) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-4=-40, 4-5=-40, 5-8=-40, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-63, 4-5=-49, 5-8=-53, 25-28=-20, 2-7=-20

Horz: 1-4=-0, 5-8=10

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

Continued on page 4







							RELEASE FOR
Job	Truss	Truss Type		Qty	Ply	Summit/woodside	idge #42/mo CONSTRUCTION
2630568	E3	Hip		1			AS NOTED ON PLANS REVIEW
					2	Job Reference (op	tional) DEVELOPMENT SERVICES
Builders FirstSource (Valley	Center), Valle	ey Center, KS - 67147,	ID:b0jc	EzO0th2N			dustries, Irl cEE:\\$-6\UMMI3 :5 :M:33\$@JgE4 Cc1hv5gZ?r15MU9KId_?SnQxp52RvEzoDHb 02/16/2021
LOAD CASE(S) Standard	d						02/16/2021
	al.) + 0.75(0.6 MW	FRS Wind (Neg. Int) Right):	Lumber Increase=1.60, Plate	Increase	=1.60		
Uniform Loads (plf)	4.5.40.50.60	25 20 20 27 20					
Vert: 1-4=-53, Horz: 1-4=-10		25-28=-20, 2-7=-20					
Concentrated Loads (I							
,	,	-915(F) 38=-915(F) 39=-91	5(F) 40=-915(F) 41=-915(F) 4	2=-915(F) 43=-915(F	F) 44=-915(F)	
	al.) + 0.75(0.6 MW	FRS Wind (Neg. Int) 1st Par	rallel): Lumber Increase=1.60	Plate Ind	crease=1.60)	
Uniform Loads (plf)							
		62, 5-8=-55, 25-28=-20, 2-7	′=-20				
Horz: 1-4=-22 Concentrated Loads (I							
		-915(F) 38=-915(F) 39=-91	5(F) 40=-915(F) 41=-915(F) 4	2=-915(F) 43=-915(F	F) 44=-915(F)	
			arallel): Lumber Increase=1.60				
Uniform Loads (plf)							
	,	49, 5-8=-41, 25-28=-20, 2-7	'=-20				
Horz: 1-4=-9,							
Concentrated Loads (I	,	-915(F) 38=-915(F) 39=-91	5(F) 40=-915(F) 41=-915(F) 4	2=-915/F) 43=-915/F	F) 44=-915(F)	
			ft): Lumber Increase=1.60, Pla) 11= 010(i)	
Uniform Loads (plf)	, ,	, ,					
	,	25-28=-20, 2-7=-20					
Horz: 1-4=-0,							
Concentrated Loads (I		-015/F) 38015/F) 3001	5(F) 40=-915(F) 41=-915(F) 4	2015/F	\ /3015/F	E) 44=-015(E)	
			ght): Lumber Increase=1.60, F) 44=-913(1)	
Uniform Loads (plf)	()		g,				
		25-28=-20, 2-7=-20					
Horz: 1-4=-10							
Concentrated Loads (I		015/5) 29 - 015/5) 20 - 01/	5(F) 40=-915(F) 41=-915(F) 4	2 015/5	\ 42 \ 04E/E	E) 44- 01E(E)	
			t Parallel): Lumber Increase=1				
Uniform Loads (plf)	(50) 1 0.70(0.01	www.rto wind (rtog. int) rot	r aranoly. Earnbor moreace—	.00, 1 1010	J 111010400-	1.00	
		69, 5-8=-69, 25-28=-20, 2-7	7 =-20				
Horz: 1-4=-22							
Concentrated Loads (I		045/5) 20 045/5) 20 04	E/E) 40 04E/E) 44 04E/E) 4	0.045/5	\ 40 045/5	T) 44 O4E(E)	
			5(F) 40=-915(F) 41=-915(F) 4 d Parallel): Lumber Increase=				
Uniform Loads (plf)	(bai.) 1 0.75(0.01	www.rto wind (rtog. int) zin	a rarancij. Edinber increase=	1.00, 1 101	ic increase.	-1.00	
· · · · · · · · · · · · · · · · · · ·	, 4-33=-69, 5-33=-	56, 5-8=-56, 25-28=-20, 2-7	'=-20				
Horz: 1-4=-9,							
Concentrated Loads (I		045(5) 00 045(5) 00 04	5/E) 40 045/E) 44 045/E) 4	0 045/5	. 40 045/5	T) 44 045(E)	
	, , ,	-915(F) 38=-915(F) 39=-919 er Increase=1.60, Plate Incr	5(F) 40=-915(F) 41=-915(F) 4	2=-915(F) 43=-915(1	-) 44=-915(F)	
Uniform Loads (plf)	IVIIII. DOWII. LUIIIDE	i iliciease=1.00, i late ilici	ease=1.00				
· · · · · · · · · · · · · · · · · · ·	, 4-5=-28, 5-8=-28	25-28=-8, 2-7=-8					
Horz: 1-4=16,							
Concentrated Loads (I							
		-915(F) 38=-915(F) 39=-91: ber Increase=1.60, Plate In	5(F) 40=-915(F) 41=-915(F) 4	2=-915(F) 43=-915(F	-) 44=-915(F)	
Uniform Loads (plf)	wiiii. Opwaiu. Luiii	Dei increase=1.00, Male III	1.00				
· · · · · · · · · · · · · · · · · · ·	l-5=4, 5-8=4, 25-28	3=-8, 2-7=-8					
Horz: 1-4=-16							
Concentrated Loads (I	lb)						

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

35) 3rd Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-47, 4-5=-78, 5-8=-47, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

36) 4th Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-31=-63, 4-31=-78, 4-5=-47, 5-8=-47, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

37) 5th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-47, 4-5=-78, 5-8=-47, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

 $\textit{Vert: } 2 = -915 \stackrel{\cdot}{(F)} 36 = -915 \stackrel{\cdot}{(F)} 37 = -915 \stackrel{\cdot}{(F)} 38 = -915 \stackrel{\cdot}{(F)} 39 = -915 \stackrel{\cdot}{(F)} 40 = -915 \stackrel{\cdot}{(F)} 41 = -915 \stackrel{\cdot}{(F)} 42 = -915 \stackrel{\cdot}{(F)} 43 = -915 \stackrel{\cdot}{(F)} 44 = -915 \stackrel{\cdot}{(F)} 42 = -915 \stackrel{\cdot}{(F)} 43 = -915 \stackrel{\cdot}{(F)} 44 = -915 \stackrel{\cdot}$

38) 6th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

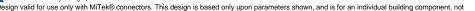
Vert: 1-4=-47, 4-5=-47, 5-35=-78, 8-35=-63, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

39) 7th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 5







					RELE	ASE FOR	2
Truss	Truss Type	Qty	Ply	Summit/woodside	ridge #42/mo CONS	TRUCTIO	N
F3	Hin	1					
	·p				ionai)		
Center), Valley Center, K	S - 67147,		8.240 s M	ar 9 2020 MiTek In	dustries, In cEE:SeSUM	MU3:52MU35C	MB 6
	ID:b0jcE	zO0th2MA	e1aMpWB	nxzu4zl-UfW?FFN8	Cc1hv5gZ?r15MU9Kld_?	SnQxp52RvEz	oDHb
					02/	16/2021	
	E3	E3 Hip Center), Valley Center, KS - 67147, ID:b0jcE	E3 Hip 1 Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MA	E3 Hip 1 2 Center), Valley Center, KS - 67147, 8.240 s M ID:b0jcEzO0th2MAe1aMpWB	E3 Hip 1 2 Job Reference (opt Center), Valley Center, KS - 67147, B.240 s Mar 9 2020 MiTek In ID:b0jcEzO0th2MAe1aMpWBnxzu4zi-UfW?FFN8	Truss Truss Truss Type E3 Hip 1 2 Job Reference (optional) Center), Valley Center, KS - 67147, B.240 s Mar 9 2020 MiTek Industries,	E3 Hip 1 2 Job Reference (optional) DEVELOPMENT SERV Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, IrLeEiSeSUMMU3;5MX950 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-UfW?FFN8Cc1hv5gZ?r15MU9KId_?SnQxp5zvEz

Vert: 1-4=-49, 4-5=-107, 5-8=-49, 25-28=-20, 2-7=-20

Concentrated Loads (lb) Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

40) 8th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-4=-107, 4-5=-49, 5-8=-107, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

41) 9th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-49, 4-5=-91, 5-8=-49, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

42) 10th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-31=-71, 4-31=-91, 4-5=-49, 5-8=-49, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

43) 11th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-49, 4-5=-91, 5-8=-49, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

44) 12th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-49, 4-5=-49, 5-35=-91, 8-35=-71, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

45) 13th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-47, 4-5=-91, 5-8=-47, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

46) 14th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-91, 4-5=-47, 5-8=-91, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

47) 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-4=-47, 4-5=-69, 5-8=-37, 25-28=-20, 2-7=-20

Horz: 1-4=-0, 5-8=10 Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

48) 16th Unbal Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-25, 5-8=-81, 25-28=-20, 2-7=-20

Horz: 1-4=-0, 5-8=10

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

49) 17th Unbal Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-37, 4-5=-69, 5-8=-47, 25-28=-20, 2-7=-20

Horz: 1-4=-10, 5-8=0 Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

50) 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-81, 4-5=-25, 5-8=-90, 25-28=-20, 2-7=-20

Horz: 1-4=-10. 5-8=0

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

51) 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-25, 4-33=-69, 5-33=-82, 5-8=-38, 25-28=-20, 2-7=-20

Horz: 1-4=-22, 5-8=9 Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

52) 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 6



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Summit/woodside	
2630568	F3	Hip	1			AS NOTED ON PLANS REVIEW

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2 Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Inception (Industries, Inception (Industries, Inception (Industries, Inception (Industries, Industries, Industrie **DEVELOPMENT SERVICES**

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-UfW?FFN8Cc1hv5gZ?r15MU9Kld_?SnQxp52RvEzoDHb

02/16/2021

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-69, 4-33=-25, 5-33=-38, 5-8=-82, 25-28=-20, 2-7=-20

Horz: 1-4=-22, 5-8=9

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

53) 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-4=-38, 4-33=-82, 5-33=-69, 5-8=-25, 25-28=-20, 2-7=-20

Horz: 1-4=-9, 5-8=22

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

54) 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-4=-82, 4-33=-38, 5-33=-25, 5-8=-69, 25-28=-20, 2-7=-20

Horz: 1-4=-9, 5-8=22 Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-90, 5-8=-40, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

56) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-40, 4-5=-90, 5-8=-90, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

57) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-77, 4-5=-78, 5-8=-40, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

58) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-40, 4-5=-78, 5-8=-77, 25-28=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 2=-915(F) 36=-915(F) 37=-915(F) 38=-915(F) 39=-915(F) 40=-915(F) 41=-915(F) 42=-915(F) 43=-915(F) 44=-915(F)

RELEASE FOR Summit/woodside idge #42/mo CONSTRUCTION Job Truss Truss Type Qty AS NOTED ON PLANS REVIEW 2630568 L1 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:54/1/25/04/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Q2dlgxP0kEHP8Pgx7F4ZRvFq4RqLwmYEHPXX_6zoDHZ 02/16/2021 7-11-12

4x4 =

5 13.42 12 3x4 / 3x4 📏 16 15 14 13 12 11 10

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.16	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a - n/a - 0.01	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S					Weight: 81 lb	FT = 20%
BCDL 10.0								

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

REACTIONS. All bearings 15-11-9.

Max Horz 1=231(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-145(LC 14), 15=-144(LC 14), 16=-145(LC 14), 12=-143(LC 15), 11=-145(LC 15), 10=-144(LC 15)

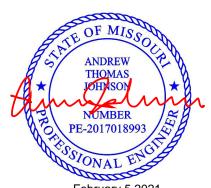
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 11 except 14=261(LC 25), 16=252(LC 25), 12=259(LC 26), 10=252(LC 26)

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

TOP CHORD 1-2=-312/205, 8-9=-280/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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, 9 except (jt=lb) 14=145, 15=144, 16=145, 12=143, 11=145, 10=144.
- 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 6-0-0 oc purlins.

5-13

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

1 Row at midpt

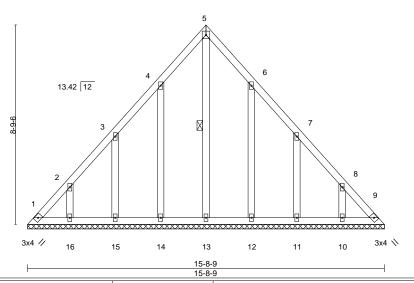
Scale = 1:51.5

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 L2 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incept 36 UMM 35 14 25 0 UE In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-uEB8uHP0VXPGmZP7hzbo_6n?sqAcfDuOW3H5WZzoDHY 02/16/2021 7-10-4 7-10-4

4x4 =



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.04 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.01 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	110.2(01)		.,, α	.,,	Weight: 79 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 15-8-9. Max Horz 1=-227(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-145(LC 14), 15=-145(LC 14), 16=-139(LC 14),

12=-143(LC 15), 11=-146(LC 15), 10=-139(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=260(LC 25), 12=259(LC 26)

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

TOP CHORD 1-2=-310/201, 8-9=-279/197

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-10-4, Exterior(2R) 7-10-4 to 10-10-4, Interior(1) 10-10-4 to 15-4-10 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=145, 15=145, 16=139, 12=143, 11=146, 10=139.
- 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.



Scale = 1:50.7

February 5,2021



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

5-13

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

1 Row at midpt

RELEASE FOR Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW **GABLE** 2630568 L3 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEErSeSUMMU3:50W350WR Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-NRIW5dQfGlY7Ni_KEg61WKKAhEWvOgBXkj0e2?zoDHX 31-8-9 **02/16/2021** 7-10-9 7-10-9 15-11-6 Scale = 1:54.2 6x6 6x6 // 13 14 13.42 12 Ø X M X M Ø M M Ø 15 16 22 21 31 30 29 28 27 26 25 24 23 20 19 18 5x5 = Plate Offsets (X,Y)-- [5:0-2-10,Edge], [13:0-2-10,Edge], [25:0-2-8,0-3-0]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.04 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 190 lb	FT = 20%

LUMBER-BRACING-

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

2-0-0 oc purlins (6-0-0 max.): 5-13.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 9-25, 8-26, 7-27, 6-28, 5-29, 10-24, 11-23, 1 Row at midpt

12-22, 13-21

REACTIONS. All bearings 31-8-9.

Max Horz 1=-229(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 25, 26, 27, 28, 29, 24, 23, 22 except 1=-110(LC 12),

30=-152(LC 14), 31=-143(LC 14), 32=-140(LC 14), 20=-151(LC 15), 19=-144(LC 15), 18=-140(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 17, 25, 26, 27, 28, 29, 31, 32, 24, 23, 22, 21, 19, 18

except 30=263(LC 25), 20=262(LC 26)

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

TOP CHORD 1-2=-300/231

Job

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-5-15, Interior(1) 3-5-15 to 7-10-9, Exterior(2R) 7-10-9 to 12-4-6 , Interior(1) 12-4-6 to 23-9-15, Exterior(2R) 23-9-15 to 28-3-12, Interior(1) 28-3-12 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 DOI = 1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 25, 26, 27, 28, 29, 24, 23, 22 except (jt=lb) 1=110, 30=152, 31=143, 32=140, 20=151, 19=144, 18=140.
- 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.



February 5,2021



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

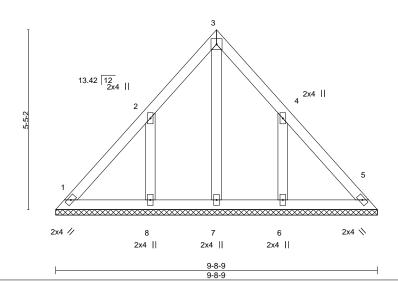
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 L5 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13.54/1256/1418 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-JptGWJ\$voSord07iM58VcIPWj2BFscCqC1VI7uzoDHV 9-8-9 02/16/2021 4-10-4 4-10-4

4x4 =



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.10 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a - n/a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 38 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-8-9. Max Horz 1=137(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-198(LC 14), 6=-197(LC 15) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=345(LC 25), 6=344(LC 26)

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

2-8=-315/208, 4-6=-315/208 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 4-10-4, Exterior(2R) 4-10-4 to 7-10-4 , Interior(1) 7-10-4 to 9-4-10 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=198, 6=197,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

Scale = 1:34.8

February 5,2021

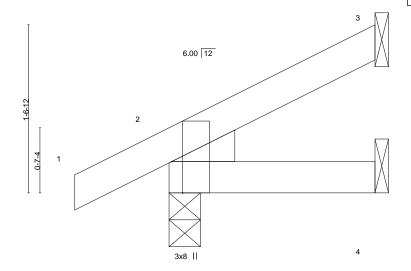


RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M1 Jack-Open 8 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13.54/1256/1418 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-JptGWJSvoSord07iM58VclPWB2BRsczqC1Vl7uzoDHV

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

Scale = 1:10.7

02/16/2021



1-10-15 1-10-15

Plate Offsets (X,Y)	[2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 7 >999 240 Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 7 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=54(LC 16)

Max Uplift 3=-27(LC 16), 2=-28(LC 16), 4=-4(LC 16) Max Grav 3=62(LC 23), 2=206(LC 23), 4=35(LC 7)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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.



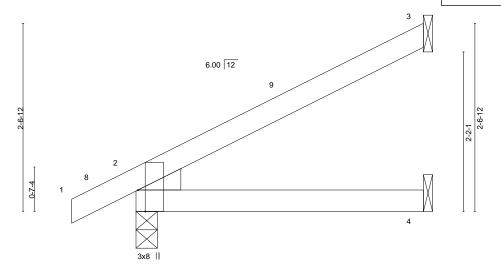
Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M2 Jack-Open 8 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM13:544356448 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-n?Rekf\$XYmwiFAivwpfk8yyf2SU_b3DzRhFlfKzoDHU 3-10-15 02/16/2021 0-10-8 3-10-15



3-10-15 3-10-15

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:0-0-1,	,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.25 BC 0.21 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.02 4-7 -0.03 4-7 0.01 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDI 10.0	Code IRC2018/TPI2014	Matrix-MP	(- /				Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=94(LC 16)

Max Uplift 3=-60(LC 16), 2=-36(LC 16), 4=-3(LC 16) Max Grav 3=156(LC 23), 2=325(LC 23), 4=76(LC 7)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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 3-10-15 oc purlins.

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

Scale = 1:15.7

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside ridge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M3 Jack-Closed 17 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.001025030318 in Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-FC_1x_T9J42ZsKH5TWBzhAVkcrnfKVT7fL_sBmzoDHT 6-0-0 02/16/2021 0-10-8 6-0-0 2x4 || Scale = 1:20.7 6.00 12 0-7-4 6 3x8 II 2x4 || 6-0-0

Plate Offsets (X,Y) [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge]
--

	,, [,,, [,			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.59 BC 0.43 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.07 6-9 >924 240 MT20 197/144 Vert(CT) -0.14 6-9 >479 180 Horz(CT) 0.03 2 n/a n/a	
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 20 lb FT = 2	0%

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) 6=Mechanical, 2=0-3-8

Max Horz 2=139(LC 15)

Max Uplift 6=-82(LC 16), 2=-59(LC 16) Max Grav 6=367(LC 23), 2=399(LC 2)

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

TOP CHORD 3-6=-274/217

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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) 6, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M5 Monopitch Supported Gable 2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEE 3 & UMMIA: 0 1425 O LURA

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

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

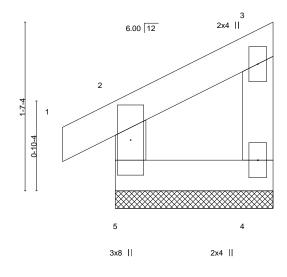
except end verticals.

DEVELOPMENT SERVICES

02/16/2021

Scale = 1:11.0





LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.04 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 1 1 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	, ,					Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 5=1-6-0, 4=1-6-0 (size) Max Horz 5=55(LC 13)

Max Uplift 5=-23(LC 16), 4=-29(LC 13)

Max Grav 5=140(LC 2), 4=53(LC 30)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



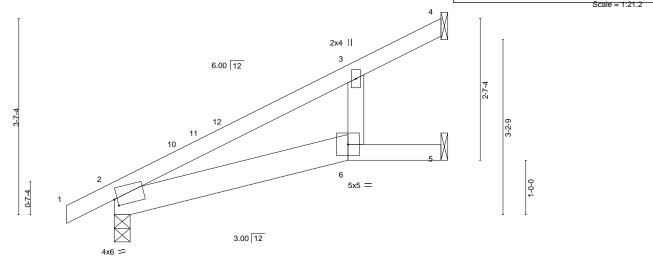
February 5,2021







RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M6 Jack-Open 9 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.92402504381 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Ba6nMgVQrhIG6dRUbxDRmba2RfUQoPMQ7fTzGfzoDHR 6-0-0 02/16/2021 0-10-8 4-3-8 1-8-8



6-0-0 4-3-8 1-8-8 Plate Offsets (X Y)-- [2:0-0-11 0-1-9]

1 1010 0110010 (71) 1	.,0 . 0]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.76 BC 0.35 WB 0.04	DEFL. in (loc) l/defl L/d Vert(LL) 0.11 6 >639 240 Vert(CT) -0.21 6 >347 180 Horz(CT) 0.05 5 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 20 lb FT = 20%
BCDL 10.0	Code IRC2016/1712014	IVIAUTX-AS		Weight. 20 lb F1 = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2-6: 2x6 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 2=136(LC 16)

Max Uplift 4=-102(LC 16), 2=-46(LC 16)

Max Grav 4=330(LC 23), 2=411(LC 2), 5=33(LC 7)

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

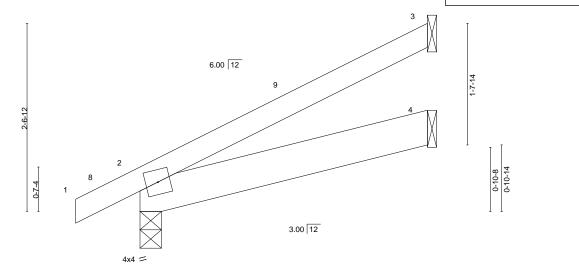
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2 2630568 M7 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.92402504381 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Ba6nMgVQrhIG6dRUbxDRmbaA2fXioPyQ7fTzGfzoDHR 3-10-15 02/16/2021 0-10-8 3-10-15



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.14 WB 0.00	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	(loc) I/defl 4-7 >999 4-7 >999 2 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	, ,			Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x6 SPF No.2

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=94(LC 16) Max Uplift 3=-55(LC 16), 2=-36(LC 16), 4=-8(LC 16)

Max Grav 3=140(LC 23), 2=325(LC 23), 4=89(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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 3-10-15 oc purlins.

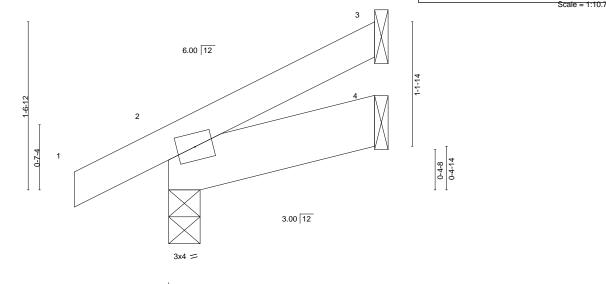
Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:15.7

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 M8 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.03/MISSOURIER Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-fng9Z0W2c2Q7jn0g9ekgJo7Nw3vmXsCZLJDWo5zoDHQ 1-10-15 02/16/2021 0-10-8 1-10-15



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 0.07 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 >999 180 TCDI 20.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MF Weight: 7 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x6 SPF No.2 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=54(LC 16) Max Uplift 3=-25(LC 16), 2=-28(LC 16), 4=-6(LC 16) Max Grav 3=56(LC 23), 2=206(LC 23), 4=41(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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.



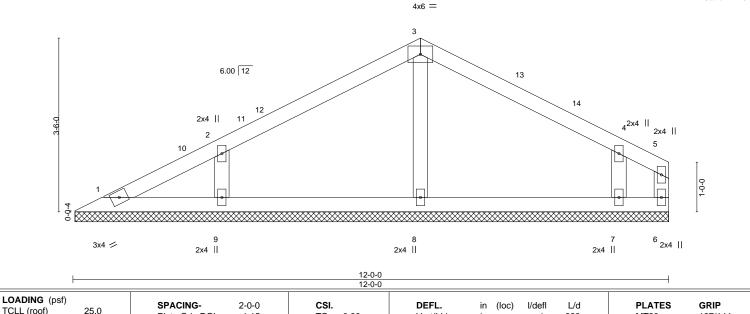
Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

February 5,2021



RELEASE FOR Summit/woodside idge #42/mo CONSTRUCTION Job Truss Truss Type Qty AS NOTED ON PLANS REVIEW 2630568 V1 Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMU1.04/1025@UUR In Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-8zEXnMWgNIY_LxbsiMFvr?fVdTDqGIPiazy3KXzoDHP 12-0-0 02/16/2021 7-0-0 5-0-0 Scale = 1:23.2



Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a

n/a

n/a

6

999

999

n/a

LUMBER-BRACING-

Code IRC2018/TPI2014

1.15

1.15

YES

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

TC

ВС

WB

Matrix-S

0.26

0.10

0.07

OTHERS 2x4 SPF No.2 REACTIONS. All bearings 11-11-8.

20.0

0.0

10.0

Snow (Pf/Pg) 15.4/20.0

TCDI

BCLL

BCDL

(lb) -Max Horz 1=63(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8 except 6=-135(LC 23), 9=-124(LC 16), 7=-152(LC 17) Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=414(LC 2), 9=437(LC 22), 7=496(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 3-8=-329/109, 2-9=-368/214, 4-7=-433/260 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 6=135, 9=124, 7=152.
- 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.



197/144

FT = 20%

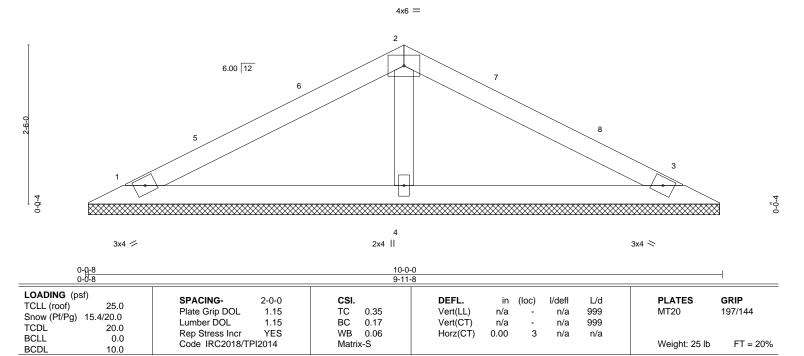
MT20

Weight: 34 lb

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V2 Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.01/1250448 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-c9ow_iXl8cgrz5A2G3m8ODCf0sYw?mrspdids_zoDHO 10-0-0 02/16/2021 5-0-0 5-0-0 Scale = 1:18.1



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=9-11-0, 3=9-11-0, 4=9-11-0 (size)

Max Horz 1=-39(LC 17)

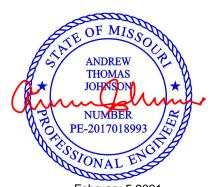
Max Uplift 1=-42(LC 16), 3=-50(LC 17), 4=-45(LC 16) Max Grav 1=239(LC 22), 3=239(LC 23), 4=520(LC 2)

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

2-4=-379/184 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 9-4-7 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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 6-0-0 oc purlins.

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

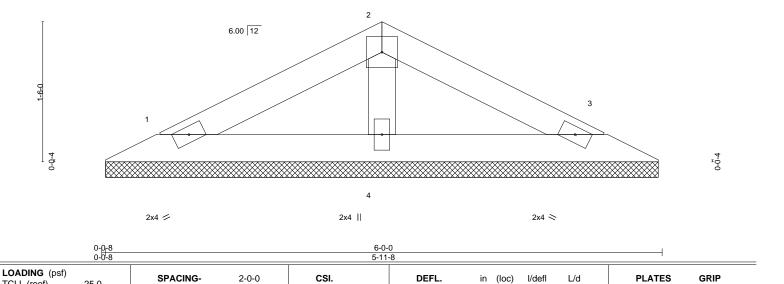
February 5,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW Valley 2630568 V3 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMU1.04/12504/12504/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-4MMIC2YwwoiaFIFqnINwQkuJGw4kDa?2HRAPQzoDHN 3-0-0 02/16/2021 3-0-0 Scale = 1:12.3 4x4 =



Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD

BOT CHORD

n/a

n/a

0.00

999

999

n/a

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

n/a

n/a

n/a

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

3

BCLL Code IRC2018/TPI2014 Matrix-P **BCDL** 10.0 LUMBER-**BRACING-**

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

Snow (Pf/Pg) 15.4/20.0

2x4 SPF No.2

25.0

20.0

0.0

1=5-11-0, 3=5-11-0, 4=5-11-0 (size) Max Horz 1=-21(LC 17) Max Uplift 1=-28(LC 16), 3=-32(LC 17), 4=-15(LC 16) Max Grav 1=135(LC 2), 3=135(LC 2), 4=252(LC 2)

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

NOTES-

REACTIONS.

TCLL (roof)

TCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

1.15

1.15

YES

TC

ВС

WB

0.12

0.05

0.02

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



197/144

FT = 20%

MT20

Weight: 14 lb

February 5,2021



RELEASE FOR Job Truss Truss Type Qty Summit/woodside ridge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V4 Valley **DEVELOPMENT SERVICES**

3-8-8

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT. 17425 GURL

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-YYwgPOZYgDwZCPJROUpcTeH0sgE?TgC9GxBkxszoDHM

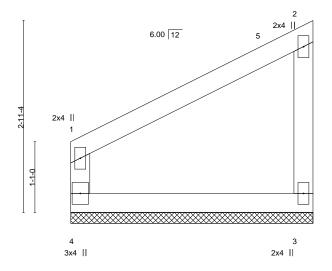
Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

02/16/2021

Scale = 1:17.6



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.20 BC 0.13 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	, ,					Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS.

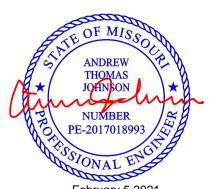
4=3-8-8, 3=3-8-8 (size) Max Horz 4=103(LC 13)

Max Uplift 4=-21(LC 16), 3=-49(LC 16) Max Grav 4=196(LC 22), 3=196(LC 22)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V5 Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT. 17425 GURL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-YYwgPOZYgDwZCPJROUpcTeH04gFVTgC9GxBkxszoDHM 02/16/2021 4-0-0 Scale = 1:12.8

> 2x4 || 6.00 12 0-0-4 3 2x4 || 2x4 /

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) 999 197/144 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) 999 n/a n/a TCDI 20.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 10 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 1=67(LC 13) Max Uplift 1=-24(LC 16), 3=-41(LC 16)

Max Grav 1=184(LC 22), 3=184(LC 22)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

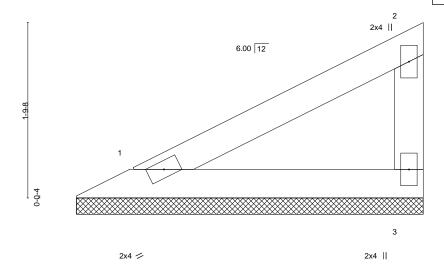
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

February 5,2021



Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V₆ Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMMUT.04/12504/18 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-0kT2ckZARX2QqYudxCKr?rqCu4b8C7RIVbwHTIzoDHL 02/16/2021



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.18 BC 0.07 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,					Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 1=3-6-8, 3=3-6-8 (size) Max Horz 1=59(LC 13)

Max Uplift 1=-21(LC 16), 3=-36(LC 16) Max Grav 1=158(LC 22), 3=158(LC 22)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-7-0 oc purlins,

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

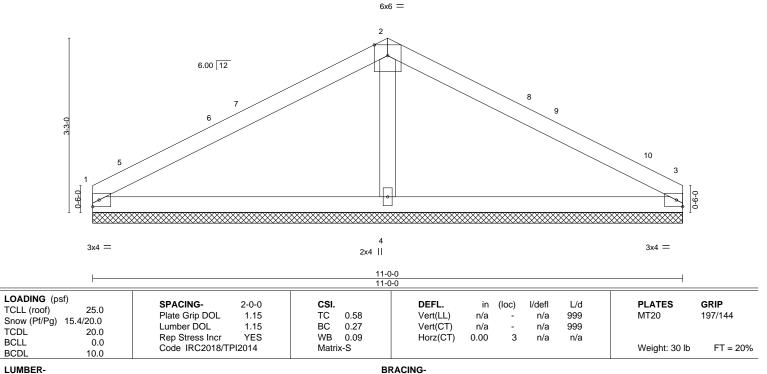
except end verticals.

RELEASE FOR

Scale = 1:11.8



RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V7 Valley **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IncEEriSeSUMWIATOMASOURIA Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Ux1Qq3aqCrAHRiTqVvr4Y3MGNUuJxZLSkFgq0lzoDHK 11-0-0 02/16/2021 5-6-0 5-6-0 Scale = 1:21.5



TOP CHORD

BOT CHORD

LUMBER-

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=-52(LC 17)

Max Uplift 1=-53(LC 16), 3=-63(LC 17), 4=-55(LC 16) Max Grav 1=288(LC 22), 3=288(LC 23), 4=645(LC 2)

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

2-4=-469/205 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021

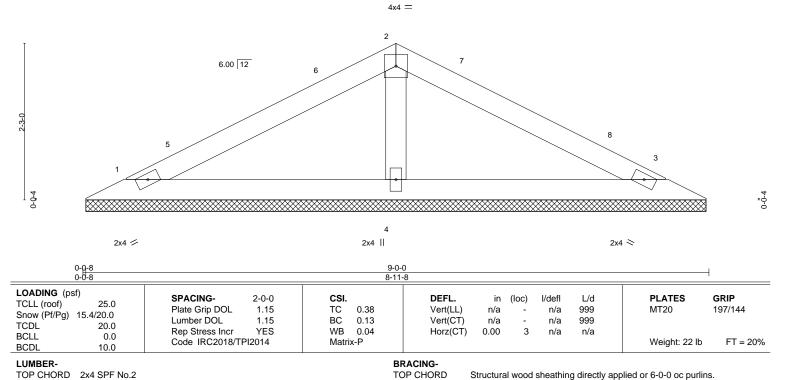


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V8 Valley **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, IrlcEE'S & UMOULA: 1000 S O LURA Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-y7bp1PbRz8l83s203dMJ5GvVHtFmg1GbyvPOYBzoDHJ 9-0-0 02/16/2021 4-6-0 4-6-0 Scale = 1:16.6



BOT CHORD

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=34(LC 16)

Max Uplift 1=-46(LC 16), 3=-52(LC 17), 4=-24(LC 16) Max Grav 1=228(LC 22), 3=228(LC 23), 4=412(LC 2)

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

2-4=-315/163 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021



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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Summit/woodside idge #42/mo CONSTRUCTION AS NOTED ON PLANS REVIEW 2630568 V9 VALLEY **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incestises UMM14:10/1025@JUS Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-y7bp1PbRz8I83s203dMJ5GvZ?tFMg1xbyvPOYBzoDHJ 02/16/2021 2-6-0 Scale = 1:9.3 3x4 =2 6.00 12 3 9-0-0 2x4 / 2x4 > 5-0-0 0-0-8

0-0 <u>-</u> 8	4-11-8			<u>'</u>					
Plate Offsets (X,Y) [2:0-2-0,Edge]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.15 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BODI 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 10 lb	FT = 20%

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 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=-17(LC 17)

Max Uplift 1=-28(LC 16), 3=-28(LC 17) Max Grav 1=206(LC 2), 3=206(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021







RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURIE, Apply plates 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

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

connector plates.

This symbol indicates the required direction of slots in plates 0- 1/16" from outside

edge of truss.

PLATE SIZE

4 × 4

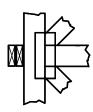
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

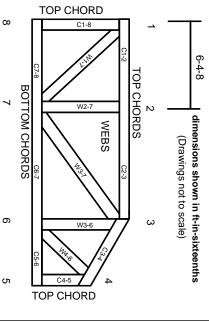
Min size shown is for crushing only

Industry Standards:

ANSI/TPI1: DSB-89:

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.

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.

© 2012 MiTek® All Rights Reserved



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.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- 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.

Ģ

- 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.

œ

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

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.