

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

Re: 2643945

summit/woodside ridge #36/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: I44773642 thru I44773725

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

Missouri COA: Engineering 001193



February 12,2021

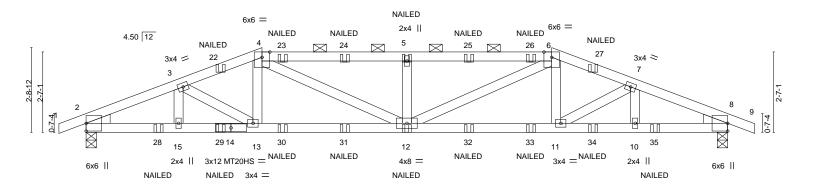
Sevier, Scott

,Engineer

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

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773642 2643945 A01 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:29 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Rk_fKbuleRhkeD9VxlQMsw?RTl40hUR1Tp7Yz_zmEy0 0-10-8 21-6-8 0-10-8 15-0-0 17-8-4 20-8-0 2-11-12 2-8-4 4-8-0 4-8-0 2-8-4 2-11-12

Scale = 1:37.1



<u> </u>	2-11-12 2-11-12	5-8-0 2-8-4	10-4-0 4-8-0		15-0-0 4-8-0		17-8-4 2-8-4	20-	
Plate Offsets (X,Y)	[2:0-0-0,0-6-3], [8:0-	0-0,0-6-3]							
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DC Lumber DOL Rep Stress In Code IRC20	1.15 icr NO	CSI. TC 0.89 BC 0.90 WB 0.25 Matrix-MS	Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.15 12 -0.33 12 0.08 8	l/defl >999 >750 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 79 lb	GRIP 197/144 148/108 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2 WEDGE

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

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

Max Horz 2=37(LC 8)

Max Uplift 2=-327(LC 4), 8=-327(LC 5) Max Grav 2=1751(LC 1), 8=1751(LC 1)

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

TOP CHORD $2-3=-3198/587,\ 3-4=-3196/595,\ 4-5=-3836/729,\ 5-6=-3836/729,\ 6-7=-3196/595,$

7-8=-3198/587

BOT CHORD 2-15=-524/2913, 13-15=-524/2913, 12-13=-520/2996, 11-12=-492/2996, 10-11=-497/2913,

8-10=-497/2913

WEBS 4-13=0/262, 4-12=-205/1007, 5-12=-718/241, 6-12=-205/1007, 6-11=0/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=327, 8=327,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-6=-90, 6-9=-90, 16-19=-20



Structural wood sheathing directly applied or 2-9-4 oc purlins, except

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

Rigid ceiling directly applied or 9-10-8 oc bracing.

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



Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO	7
					144773642	
2643945	A01	Hip Girder	1	1		
					Job Reference (optional)	-

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:29 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Rk_fKbuleRhkeD9VxlQMsw?RTI40hUR1Tp7Yz_zmEy0

LOAD CASE(S) Standard

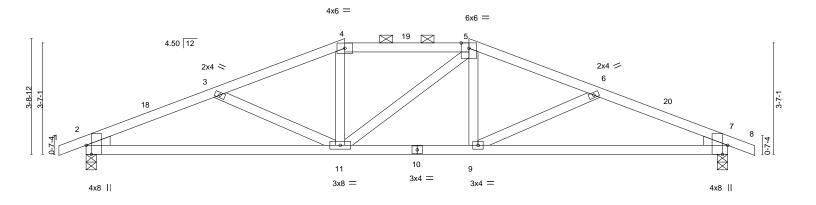
Concentrated Loads (lb)

Vert: 12=-27(B) 5=-60(B) 23=-60(B) 24=-60(B) 25=-60(B) 25=-60(B) 28=-177(B) 29=-144(B) 30=-27(B) 31=-27(B) 32=-27(B) 33=-27(B) 34=-144(B) 35=-177(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773643 2643945 A02 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:30 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-vwY1YxvwPlpbFNkhVTxbP7XjW9UrQznAiTt5VQzmEy? 0-10-8 20-8-0 21-6-8 0-10-8 12-4-0 4-3-12 4-0-4 4-0-0 4-0-4 4-3-12

Scale = 1:37.1



	<u> </u>	8-4 8-4			-	4-0-0	-				8-4-0	
Plate Off	sets (X,Y)	[2:0-0-0,0-6-3], [2:0-3-8,),0-6-3], [7:0-3	-8,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	9-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.19	9-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	-AS						Weight: 75 lb	FT = 20%

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, Right: 2x4 SPF No.2

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

Max Horz 2=54(LC 12)

Max Uplift 2=-163(LC 8), 7=-163(LC 9) Max Grav 2=1215(LC 1), 7=1215(LC 1)

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

TOP CHORD 2-3=-2211/313, 3-4=-1874/264, 4-5=-1713/272, 5-6=-1874/264, 6-7=-2211/313

BOT CHORD 2-11=-245/2001, 9-11=-163/1712, 7-9=-245/2001 3-11=-331/125, 4-11=-2/287, 5-9=-2/288, 6-9=-332/125 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-0, Exterior(2E) 8-4-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-9, Interior(1) 16-6-9 to 21-6-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=163, 7=163.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

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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 chore 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

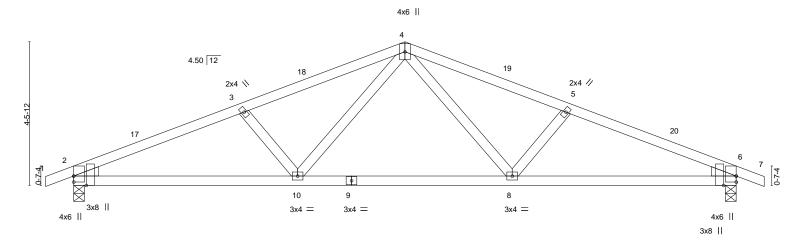
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	summit/wood	side ridge #36/MO	
							144773644
2643945	A03	Common	1	1			
					Job Reference	e (optional)	
Builders FirstSource (Valle	Center), Valley Center, I	(S - 67147,	3	3.240 s Ma	r 9 2020 MiTel	Industries, Inc. Thu Feb 11 10:08:31 20	21 Page 1
			ID:wH4RYhEs7	NeUP2dX	vOfi1syQY8e-N	I76PIHvYA3xStXJt3ASqxL4u1Zrr9PdKx7	cf1szmEy_
_[-0-10-8]	5-3-12	10-4-0	ı	15-4-4		20-8-0	21-6-8
0-10-8	5-3-12	5-0-4		5-0-4		5-3-12	0-10-8

Scale = 1:35.9



6-11-13				6-8-5					6-11-13			
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [6:0-3-8,E	dge]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.10	8-10	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	x-AS						Weight: 71 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

13-8-3

LUMBER-

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

WEDGE

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

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

Max Horz 2=67(LC 12)

Max Uplift 2=-149(LC 8), 6=-149(LC 9) Max Grav 2=1215(LC 1), 6=1215(LC 1)

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

TOP CHORD 2-3=-2205/335, 3-4=-1950/317, 4-5=-1950/317, 5-6=-2205/335

6-11-13

BOT CHORD 2-10=-251/1989, 8-10=-139/1421, 6-8=-256/1989

3-10=-413/148, 4-10=-78/570, 4-8=-78/570, 5-8=-413/148 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 21-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



20-8-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-KVEAAzxpigBA6qSGAbUI0m97hMTYd8kdOR5m5lzmExy

17-6-13 18-4-2

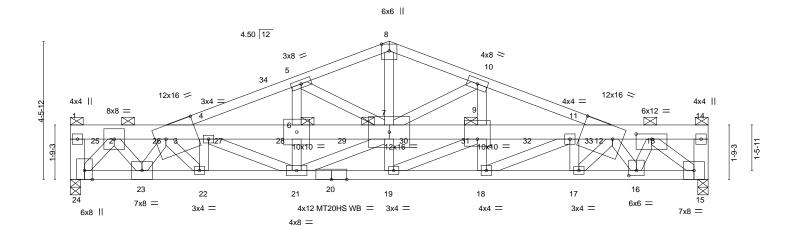
Structural wood sheathing directly applied or 2-10-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 1-14.

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

1 Brace at Jt(s): 1, 14, 7, 6, 9

18-10-0 2-3-14 | 3-1-3 | 0-10-13 | 0-9-5 | 17-6-13 10-4-0 7-4-0 16-4-0 0-5-14 Scale = 1:37.3



	<u> </u>			0-0 1-0-0	200	200		200		2-3-14
					2-0-0	2-0-0		3-0-0	1-2-13 0-9-5	2-3-14
Plate Offs	ets (X,Y)	[3:1-0-0,0-5-0], [9:0-	-5-0,0-2-12], [12:1	-0-4,0-5-0], [13:0-6-	0.0-2-0], [16:	0-3-0,0-2-01				
		7 17 1		T 27.						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L	_/d PLATES	GRIP
TCLL	25.0	Plate Grip DO	DL 1.15	TC 0.8	7	Vert(LL)	-0.02 19	>999 2	40 MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.8	6	Vert(CT)	-0.35 18-19	>693 1	80 MT20HS	187/143
BCLL	0.0	Rep Stress Ir	ncr NO	WB 0.8	7	Horz(CT)	0.13 15	n/a r	n/a	
BCDL	10.0	Code IRC20	18/TPI2014	Matrix-MS					Weight: 26	6 lb FT = 20%

BOT CHORD

JOINTS

10-4-0

8-4-0

LUMBER-BRACING-TOP CHORD

2x6 SPF No.2 *Except* TOP CHORD 3-8,8-12: 2x4 SPF No.2 **BOT CHORD** 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except* 1-24,14-15: 2x6 SPF No.2

REACTIONS. (size) 24=0-4-0, 15=0-4-0

Max Horz 24=16(LC 12)

Max Grav 24=7116(LC 1), 15=7072(LC 1)

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

TOP CHORD $1-24 = -844/0, \ 1-2 = -367/0, \ 2-3 = -8851/0, \ 3-4 = -5040/0, \ 4-6 = -4350/0, \ 6-7 =$

7-9=-2320/0, 9-11=-3230/0, 11-12=-4731/0, 12-13=-9368/0, 13-14=-411/0, 3-5=-9466/0,

5-8=-7468/0, 8-10=-7466/0, 10-12=-10067/0, 14-15=-539/0

23-24=0/5605, 22-23=0/13195, 21-22=0/13679, 19-21=0/11510, 18-19=0/12420, **BOT CHORD**

17-18=0/13921, 16-17=0/13532, 15-16=0/7707

WFBS 7-8=0/4955, 9-10=0/2362, 7-10=-2567/0, 5-6=0/1832, 5-7=-1937/0, 7-19=0/506,

9-18=0/859, 11-17=-659/0, 4-22=-883/0, 4-21=-761/0, 7-21=0/1629, 9-19=-1089/0, 11-18=-1690/0, 2-24=-8053/0, 2-23=0/5969, 3-23=-6682/0, 3-22=0/981, 13-15=-9657/0,

13-16=0/5001, 12-16=-6406/0, 12-17=0/792

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc, 2x4 - 1 row at 0-4-0 oc.

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

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 24-2 2x4 - 1 row at 0-4-0 oc, member 23-3 2x4 - 1 row at 0-7-0 oc, member 15-13 2x4 - 1 row at 0-4-0 oc, member 16-12 2x4 - 1 row at 0-7-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 3-6-2 to 6-6-2, Interior(1) 6-6-2 to 10-4-0, Exterior(2R) 0-2-12 to 3-6-2, Interior(1) 3-6-2 to 20-5-4, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 17-1-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 24, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Connected codesigned and ANSI/TPI 1.



February 12,2021



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



Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO	
2643945	A04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	144773645

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:33 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-KVEAAzxpigBA6qSGAbUI0m97hMTYd8kdOR5m5lzmExy

10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 12-14=-90, 3-8=-90, 8-12=-90, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-78, 12-14=-78, 3-8=-77, 8-12=-77, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-40

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=29, 12-14=22, 3-34=31, 8-34=28, 8-10=34, 10-12=28, 15-24=-8

Horz: 1-24=18, 3-34=-43, 8-34=-40, 8-10=46, 10-12=40, 14-15=32

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=22, 12-14=29, 3-5=28, 5-8=34, 8-12=28, 15-24=-8

Horz: 1-24=-32, 3-5=-40, 5-8=-46, 8-12=40, 14-15=-18

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=-54, 12-14=-54, 3-8=-59, 8-12=-59, 15-24=-20

Horz: 1-24=-21, 3-8=19, 8-12=-19, 14-15=-29

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=-54, 12-14=-54, 3-8=-59, 8-12=-59, 15-24=-20

Horz: 1-24=29, 3-8=19, 8-12=-19, 14-15=21

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=4, 12-14=4, 3-8=28, 8-12=19, 15-24=-8

Horz: 1-24=11, 3-8=-40, 8-12=31, 14-15=16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=14, 12-14=14, 3-8=19, 8-12=28, 15-24=-8

Horz: 1-24=-16, 3-8=-31, 8-12=40, 14-15=-11

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=-34, 12-14=-34, 3-8=-21, 8-12=-31, 15-24=-20

Horz: 1-24=22, 3-8=-19, 8-12=9, 14-15=6

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-25, 12-14=-25, 3-8=-31, 8-12=-21, 15-24=-20

Horz: 1-24=-6, 3-8=-9, 8-12=19, 14-15=-22

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3





Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:33 2021 Page 3 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-KVEAAzxpigBA6qSGAbUI0m97hMTYd8kdOR5m5lzmExy

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=4, 12-14=4, 3-8=30, 8-12=14, 15-24=-8

Horz: 1-24=6, 3-8=-42, 8-12=26, 14-15=14

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=14, 12-14=14, 3-8=14, 8-12=30, 15-24=-8 Horz: 1-24=-14, 3-8=-26, 8-12=42, 14-15=-6

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=4, 12-14=4, 3-8=19, 8-12=9, 15-24=-8 Horz: 1-24=6, 3-8=-31, 8-12=21, 14-15=14

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=14, 12-14=14, 3-8=9, 8-12=19, 15-24=-8

Horz: 1-24=-14, 3-8=-21, 8-12=31, 14-15=-6

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 12-14=-34, 3-8=-19, 8-12=-35, 15-24=-20

Horz: 1-24=17, 3-8=-21, 8-12=5, 14-15=3

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-25, 12-14=-25, 3-8=-35, 8-12=-19, 15-24=-20

Horz: 1-24=-3, 3-8=-5, 8-12=21, 14-15=-17

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F) 31=-1135(F) 32=-1135(F) 31=-1135(F) 31=-1135(F)

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

Uniform Loads (plf)

Vert: 1-3=-73, 12-14=-73, 3-8=-64, 8-12=-70, 15-24=-20

Horz: 1-24=16, 3-8=-14, 8-12=7, 14-15=4

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-66, 12-14=-66, 3-8=-70, 8-12=-64, 15-24=-20

Horz: 1-24=-4, 3-8=-7, 8-12=14, 14-15=-16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-73 12-14=-73 3-8=-62 8-12=-74 15-24=-20

Horz: 1-24=13, 3-8=-16, 8-12=4, 14-15=2

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-66, 12-14=-66, 3-8=-74, 8-12=-62, 15-24=-20

Horz: 1-24=-2, 3-8=-4, 8-12=16, 14-15=-13

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

23) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-28, 12-14=-28, 3-8=-28, 8-12=-28, 15-24=-8

Horz: 1-24=-16, 3-8=16, 8-12=-16, 14-15=-16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

24) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4





Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO	
2643945	A04	ROOF SPECIAL GIRDER	1	2	Inh Reference (ontional)	144773645

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:33 2021 Page 4 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-KVEAAzxpigBA6qSGAbUI0m97hMTYd8kdOR5m5lzmExy

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=4, 12-14=4, 3-8=4, 8-12=4, 15-24=-8

Horz: 1-24=16, 3-8=-16, 8-12=16, 14-15=16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F) 31=-1135(F) 31=-1135(F)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-90, 3-8=-40, 8-12=-90, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 32=-1135(F)

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40. 12-14=-78. 3-8=-40. 8-12=-77. 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773646 2643945 B₀1 HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:35 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-GuLwbfy3EHRtM8cel0Xm6BEVrA7h55hvslas9dzmExw

4-0-6

14-8-6

4-0-6

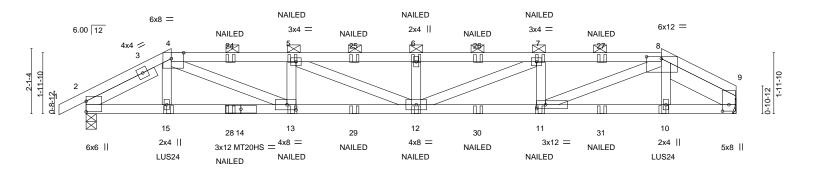
18-7-0

3-10-10

Scale = 1:37.2

21-0-0

2-5-0



		2-9-0	6-7-10	+	10-8-0		4-8-6			18-7-0	21-0-0	
		2-9-0	3-10-10	·	4-0-6		4-0-6		3	-10-10	2-5-0	
Plate Offse	ts (X,Y)	[4:0-4-13,Edge],	[8:0-5-12,0-0-12], [9:	0-2-8,0-2-8], [11:0	<u>-3-8,0-1-8], [13:0-3</u>	3-8,0-2-0]						
LOADING	(psf)	SPACING	2-0-0	CSI.	DI	EFL.	in (loc)	I/defI	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip	DOL 1.15	TC 0.	?7 \ Ve	ert(LL) -0.2	5 12	>999	240	MT20	197/144	
TCDL	20.0	Lumber D	OL 1.15	BC 0.	95 V e	ert(CT) -0.5	6 12	>453	180	MT20HS	148/108	
BCLL	0.0	Rep Stres	s Incr NO	WB 0.	35 Hr	orz(CT) 0.0	7 9	n/a	n/a			
BCDL	10.0	Code IRC	2018/TPI2014	Matrix-M	3					Weight: 84 lb	FT = 20%	

LUMBER-BRACING-

3-10-10

2x4 SPF No.2 *Except* Structural wood sheathing directly applied or 2-7-4 oc purlins, except TOP CHORD TOP CHORD

4-8: 2x4 SPF 1650F 1.5E 2-0-0 oc purlins (2-6-5 max.): 4-8.

BOT CHORD 2x4 SPF 1650F 1.5E **BOT CHORD** Rigid ceiling directly applied or 8-8-14 oc bracing. 2x4 SPF No.2

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

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

Max Horz 2=37(LC 8)

Max Uplift 9=-251(LC 9), 2=-267(LC 8) Max Grav 9=1797(LC 1), 2=1859(LC 1)

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

TOP CHORD 2-4=-2876/414, 4-5=-4847/695, 5-6=-5502/779, 6-7=-5502/779, 7-8=-4704/673,

8-9=-351/88

BOT CHORD 2-15=-356/2521, 13-15=-356/2502, 12-13=-683/4843, 11-12=-652/4700, 10-11=-315/2313,

9-10=-316/2337

WFBS 4-13=-373/2585, 5-13=-863/202, 5-12=-126/733, 6-12=-459/137, 7-12=-146/885,

7-11=-905/208, 8-11=-378/2634, 8-10=-18/291

NOTES-

-0-10-8 0-10-8

2-9-0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=251, 2=267.
- 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/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 16-0-0 oc max. starting at 2-8-0 from the left end to 18-8-0 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

OFFESSIONAL SE February 12,2021

OF MISS

SCOTT M.

SEVIER

PE-2001018807

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO
					144773646
2643945	B01	HIP GIRDER	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:35 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-GuLwbfy3EHRtM8ceI0Xm6BEVrA7h55hvslas9dzmExw

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-8=-90, 8-9=-90, 16-20=-20

Concentrated Loads (lb)

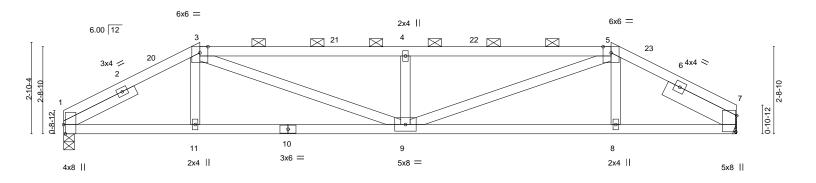
Vert: 15=-292(B) 13=-41(B) 5=-57(B) 12=-41(B) 6=-57(B) 7=-57(B) 11=-41(B) 10=-292(B) 24=-57(B) 25=-57(B) 26=-57(B) 27=-57(B) 28=-41(B) 29=-41(B)

30=-41(B) 31=-41(B)



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773647 2643945 B02 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:36 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-k4vlo_zh?bZkzlBrrj2?eOnf2aWxqd?34PKQh4zmExv 4-3-0 6-5-0 6-5-0 3-11-0

Scale = 1:36.0



		4-3-0		10-8-0				17-	1-0		21-0-	0
	I	4-3-0		6-5-0		I		6-5	i-0		3-11-	0 '
Plate Off	sets (X,Y)	[1:0-3-8,Edge], [7:0-6-1,0	0-0-5]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.11	` ģ	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.27	8-9	>939	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	x-AS						Weight: 79 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

Max Horz 1=35(LC 12)

Max Uplift 1=-128(LC 12), 7=-126(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-1846/235, 3-4=-2685/350, 4-5=-2685/350, 5-7=-1742/226 TOP CHORD **BOT CHORD** 1-11=-181/1623, 9-11=-184/1620, 8-9=-157/1513, 7-8=-155/1514

WEBS 3-9=-195/1212, 4-9=-711/187, 5-9=-204/1314

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-3-0, Exterior(2R) 4-3-0 to 8-5-15, Interior(1) 8-5-15 to 17-1-0, Exterior(2E) 17-1-0 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=128, 7=126
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

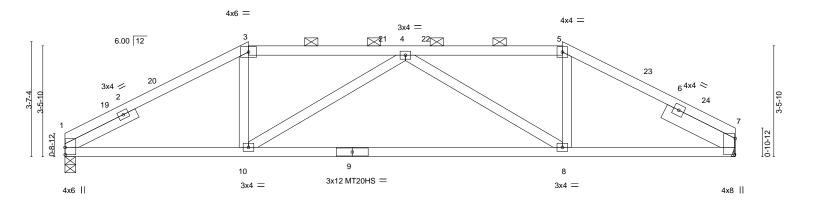


February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773648 2643945 B₀3 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:37 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-CHTh0K_JlvhbbSm1PRZEBcKuKzqvZ3yCJ33zEWzmExu 4-11-0 4-11-0

Scale = 1:36.1



	5-9-0		9-10-0					
Plate Offsets (X,Y	[1:0-2-12,0-0-1], [7:0-6-1,0-0-5]							
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.58 BC 0.83	Vert(LL) -0.27 8-10 >9 Vert(CT) -0.60 8-10 >4	/defl L/d 949 240 423 180 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 77 lb FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

Max Horz 1=47(LC 12)

Max Uplift 1=-126(LC 12), 7=-124(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

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

1-3=-1810/218, 3-4=-1545/224, 4-5=-1468/216, 5-7=-1737/213 TOP CHORD

BOT CHORD 1-10=-145/1561. 8-10=-216/1933. 7-8=-127/1485 **WEBS** 3-10=-2/462, 4-10=-561/155, 4-8=-638/160, 5-8=-2/478

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-9-0, Exterior(2R) 5-9-0 to 9-11-15, Interior(1) 9-11-15 to 15-7-0, Exterior(2R) 15-7-0 to 19-9-15, Interior(1) 19-9-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773649 2643945 B04 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-gT13Dg?xWCpSDbLDz84Tjps5ANFilYVMYjpXmyzmExt 21-0-0 7-3-0 7-3-0 6-10-0 6-11-0

Scale = 1:36.0

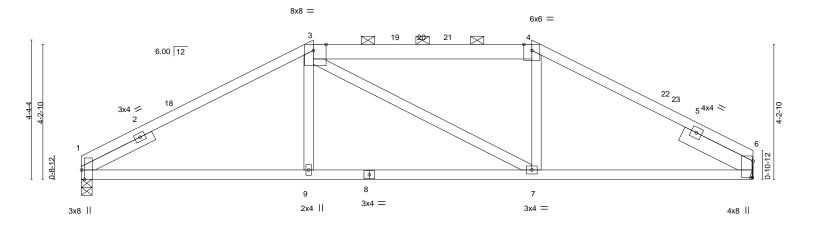


Plate Offsets (X,	- [1:0-3-8,Edge], [3:0-4-13,Edge], [6:0-6-	1,0-0-5]	0 10 0		0110
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.07 7-9	>999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.16 7-9	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.06 6	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 79 lb FT = 20%

6-10-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 3-4: 2x6 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

Max Horz 1=60(LC 12)

Max Uplift 1=-124(LC 12), 6=-122(LC 13) Max Grav 1=1155(LC 1), 6=1155(LC 1)

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

TOP CHORD 1-3=-1674/232, 3-4=-1399/247, 4-6=-1659/228 **BOT CHORD** 1-9=-142/1462, 7-9=-144/1457, 6-7=-129/1405

WEBS 3-9=0/288, 4-7=0/285

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-3-0, Exterior(2R) 7-3-0 to 11-5-15, Interior(1) 11-5-15 to 14-1-0, Exterior(2R) 14-1-0 to 18-3-15, Interior(1) 18-3-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=124, 6=122
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



21-0-0

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773650 2643945 B05 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:40 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-cs9peM0C2q4ASvVc4Z6xpEyS7BwCmV3f?0ldrrzmExr 12-7-0 21-0-0

3-10-0

4-0-12

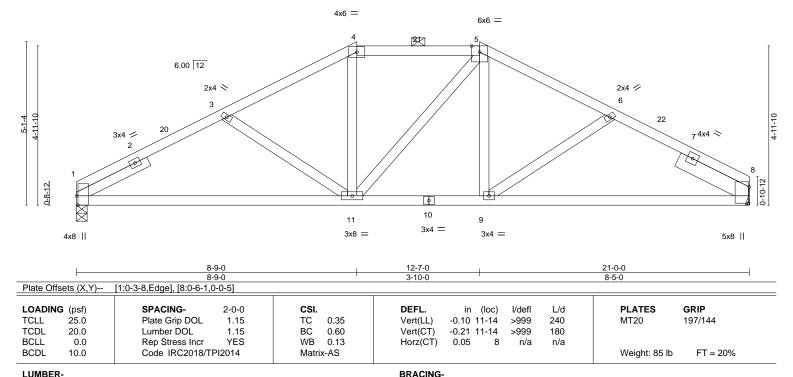
Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-0-14 max.): 4-5.

Rigid ceiling directly applied.

4-0-12

Scale = 1:36.0



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

4-6-4

REACTIONS. (size) 1=0-4-0, 8=Mechanical

Max Horz 1=72(LC 12)

Max Uplift 1=-122(LC 12), 8=-119(LC 13) Max Grav 1=1155(LC 1), 8=1155(LC 1)

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

 $1\hbox{-}3\hbox{--}1758/260,\ 3\hbox{-}4\hbox{--}1510/231,\ 4\hbox{-}5\hbox{--}1280/237,\ 5\hbox{-}6\hbox{--}1466/228,\ 6\hbox{-}8\hbox{--}1674/250}$ TOP CHORD **BOT CHORD**

1-11=-206/1529. 9-11=-99/1262. 8-9=-171/1432 **WEBS** 4-11=-16/303, 5-9=-19/263, 3-11=-307/135

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-9-0, Exterior(2E) 8-9-0 to 12-7-0, Exterior(2R) 12-7-0 to 16-9-7, Interior(1) 16-9-7 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=122, 8=119.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



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 chore 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

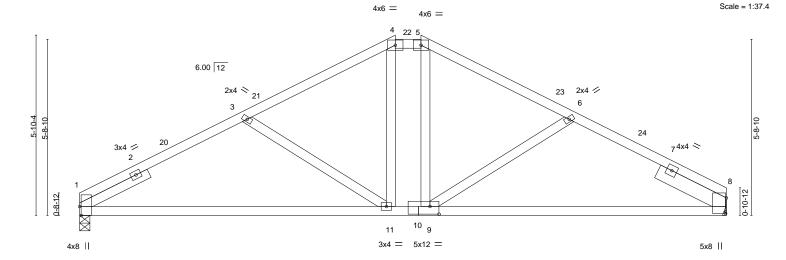
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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





ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-52jBsi1qp7C1433oeHeALSUdYbEgVvBoEg1BNHzmExq 11-1-0 10-3-0 15-10-12 21-0-0 4-9-12 4-9-12



		5-3-4	10-3-0	₁ 11-1-0 ₁	21-0-0		
	ı	5-3-4	4-11-12	0-10-0	9-11-0		<u> </u>
Plate Offse	ets (X,Y)	[1:0-3-8,Edge], [8:0-6-1,0-0-5],	10:0-0-0,0-1-12], [10:0-3-8,0-3-0	0]			
LOADING	(psf)	SPACING- 2-0-	CSI.	DEFL.	in (loc) I/defl L/d	PLATES (BRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.37	Vert(LL)	-0.16 11-14 >999 240	MT20 1	97/144
TCDL	20.0	Lumber DOL 1.1	5 BC 0.72	Vert(CT)	-0.34 11-14 >744 180		
BCLL	0.0	Rep Stress Incr YES	S WB 0.26	Horz(CT)	0.05 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 83 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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

REACTIONS. (size) 1=0-4-0, 8=Mechanical

Max Horz 1=84(LC 12)

Max Uplift 1=-119(LC 12), 8=-117(LC 13) Max Grav 1=1155(LC 1), 8=1155(LC 1)

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

 $1\hbox{-}3\hbox{--}1697/237, 3\hbox{-}4\hbox{--}1387/204, 4\hbox{-}5\hbox{--}1147/205, 5\hbox{-}6\hbox{--}1375/203, 6\hbox{-}8\hbox{--}1669/231}$ TOP CHORD

BOT CHORD 1-11=-207/1511, 9-11=-56/1147, 8-9=-147/1432

WEBS 4-11=-32/359, 5-9=-30/263, 6-9=-389/166, 3-11=-467/178

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-3-0, Exterior(2E) 10-3-0 to 11-1-0, Exterior(2R) 11-1-0 to 15-3-15, Interior(1) 15-3-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 8=117.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



MiTek

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773652 2643945 B07 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:42 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ZEGZ322SaRKuiDe?C_9Puf1o4_ceEOMxTKnkvjzmExp 10-8-0 21-0-0 5-0-4 5-3-12 Scale = 1:39.0 5x5 || 6.00 12 21 2x4 // 2x4 \\ 5 22 6^{4x4} > 3x4 / 0-10-12 0-8-12 10 9 3x4 =3x4 = 3x4 = 3x8 || 4x8 || 13-10-13 Plate Offsets (X,Y)--[1:0-3-8,Edge], [7:0-6-1,0-0-5] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.07 8-10 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.54 Vert(CT) -0.17 8-10 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.05

n/a

Structural wood sheathing directly applied.

n/a

Rigid ceiling directly applied.

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

Max Horz 1=88(LC 12)

Max Uplift 1=-118(LC 12), 7=-115(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

1-3=-1764/283, 3-4=-1615/307, 4-5=-1533/294, 5-7=-1685/274 TOP CHORD

BOT CHORD 1-10=-201/1525, 8-10=-82/1074, 7-8=-178/1438

WEBS 3-10=-392/166, 4-10=-108/563, 4-8=-92/478, 5-8=-340/157

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 21-0-0 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

WB

Matrix-AS

0.14

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

YES

- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=118, 7=115.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 20%

Weight: 81 lb

February 12,2021



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

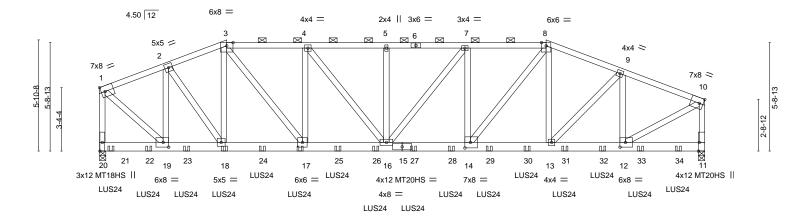
Structural wood sheathing directly applied or 3-9-15 oc purlins,

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

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

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-VdOKUj3i62acxXoNJPBtz461BoK4i6kEweGr_czmExn 19-5-9 23-7-5 32-0-0 3-2-9 4-1-13 4-3-9 4-3-9 4-1-13 4-0-9 4-4-1

Scale = 1:60.9



⊢	3-6-1 6-8-11 3-6-1 3-2-9	10-10-7 4-1-13	15-2-0 4-3-9	19-5-9 4-3-9	23-7-5 4-1-13	27-7-15 4-0-9	32-0-0 4-4-1	1
Plate Offsets (X,Y)	[10:0-2-7,Edge], [11:0-5-8,E	dge], [12:0-3-8,0-3-0)], [14:0-3-8,0-3-8],	[19:0-3-8,0-3-0]				
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0		1.15 T 1.15 B NO W	SI. C 0.73 C 0.42 /B 0.91 latrix-MS	Vert(CT) -0.	in (loc) I/defl .18 14-16 >999 .40 14-16 >948 .07 11 n/a	L/d 240 180 n/a	MT20HS 148 MT18HS 197	IP //144 //108 //144 T = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

REACTIONS. (size) 20=0-4-0, 11=0-4-0

Max Horz 20=-85(LC 6)

Max Uplift 20=-1065(LC 4), 11=-983(LC 5) Max Grav 20=7002(LC 1), 11=6968(LC 1)

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

1-2=-5250/818, 2-3=-7105/1119, 3-4=-9337/1410, 4-5=-10507/1514, 5-7=-10507/1514, TOP CHORD

7-8=-10150/1443, 8-9=-8657/1246, 9-10=-7111/1009, 1-20=-6300/982, 10-11=-6366/913

18-19=-734/4864, 17-18=-995/6690, 16-17=-1342/9334, 14-16=-1375/10146, BOT CHORD

13-14=-1120/8091, 12-13=-947/6596 **WEBS**

2-19=-3313/524, 2-18=-441/3104, 3-18=-1317/133, 3-17=-571/4392, 4-17=-2031/264,

4-16=-201/1920, 5-16=-378/103, 7-16=-176/645, 7-14=-1046/236, 8-14=-439/3449,

9-13=-262/2207, 9-12=-2318/345, 1-19=-996/6457, 10-12=-1046/7457

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-4-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=1065, 11=983.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 30-7-4 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

OF MISS SCOTT M. SEVIER NUMBER POLITISSIONAL STONAL PE-2001018807

February 12,2021

Continued on page 2

LOAD CASE(S) Standard

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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO
					144773653
2643945	C01	HIP GIRDER	1	2	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:44 2021 Page 2 $ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-VdOKUj3i62acxXoNJPBtz461BoK4i6kEweGr_czmExn$

LOAD CASE(S) Standard

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

Vert: 1-3=-90, 3-8=-90, 8-10=-90, 11-20=-20

Concentrated Loads (lb)

Vert: 18=-609(B) 17=-609(B) 21=-615(B) 22=-609(B) 23=-609(B) 24=-609(B) 25=-609(B) 26=-724(B) 27=-724(B) 28=-724(B) 29=-724(B) 30=-724(B) 31=-655(B) 32=-645(B) 33=-645(B) 34=-645(B)

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773654 2643945 C02 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:45 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-zpyih34KtMiTZgNZt6i6WlfA2CY8RcpO9I?OW2zmExm 21-2-0 25-2-0 32-0-0

7-2-11

2-8-11

4-0-0

5-5-9

Scale = 1:59.1

6-10-0

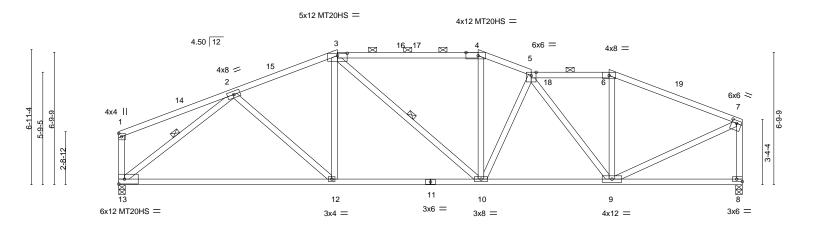
32.0.0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt



		5-9-1		5-5-9	7-2-11	2-8-1	_	4-0-0	6-10-0	
Plate Offs	sets (X,Y)	[3:0-6-0,0-1-8], [4:0-7-8,0						- · ·		
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.34 12-13	>999	240	MT20	197/144
ΓCDL	20.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.70 12-13	>545	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.08 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS					Weight: 150 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

3-4: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-4-0, 13=0-4-0

Max Horz 13=78(LC 11)

Max Uplift 8=-220(LC 9), 13=-198(LC 8) Max Grav 8=1744(LC 1), 13=1744(LC 1)

5.0.1

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

2-3=-2183/311, 3-4=-2105/339, 4-5=-2255/345, 5-6=-1691/271, 6-7=-1904/253, TOP CHORD

1-13=-296/66, 7-8=-1678/241

BOT CHORD 12-13=-298/1789, 10-12=-264/1977, 9-10=-308/2220

WEBS 2-12=0/407, 3-10=-85/323, 4-10=-2/333, 5-10=-283/117, 7-9=-212/1778, 5-9=-884/127,

2-13=-2137/287

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 11-2-11, Exterior(2R) 11-2-11 to 14-5-1, Interior(1) 14-5-1 to 18-5-5, Exterior(2E) 18-5-5 to 21-2-0, Interior(1) 21-2-0 to 25-2-0, Exterior(2R) 25-2-0 to 28-4-6, Interior(1) 28-4-6 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=220, 13=198.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773655 2643945 C03 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:47 2021 Page 1

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

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-vC4S6l6bPzyAo_Xy?XkabjkZU?livYYgccUVaxzmExk

Structural wood sheathing directly applied, except end verticals, and

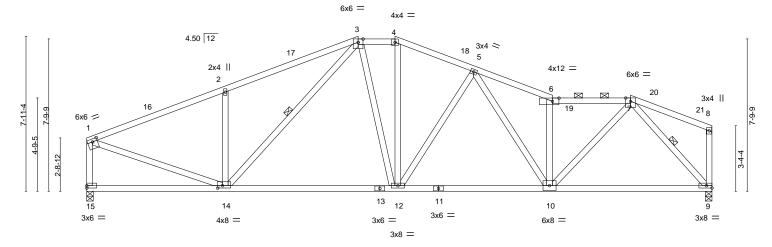
2-0-0 oc purlins (3-6-9 max.): 3-4, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

27-10-0 13-10-11 19-9-11 23-10-0 32-0-0 6-9-9 1-10-11 4-0-5 4-0-5 4-0-0 4-2-0

Scale = 1:59.0



	7-1-1	13-10-11	15-9-5	23-10-0		27-10-0 1 32-	0-0
	7-1-1	6-9-9	1-10-11	8-0-11	ı	4-0-0 4-2	2-0
Plate Offsets (X,Y)	[1:0-3-0,0-1-12], [6:0-4-0,0-2-0], [14:0-	3-0,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL)	-0.13 12-14 >999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.68	Vert(CT)	-0.34 12-14 >999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT)	0.07 9 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 157 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 15=0-4-0, 9=0-4-0 Max Horz 15=69(LC 9)

Max Uplift 15=-180(LC 8), 9=-203(LC 9) Max Grav 15=1744(LC 1), 9=1744(LC 1)

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

1-2=-2193/261, 2-3=-2206/347, 3-4=-1850/304, 4-5=-2044/312, 5-6=-2558/341, TOP CHORD

6-7=-2366/294, 1-15=-1679/206

BOT CHORD 12-14=-234/1814, 10-12=-273/2144, 9-10=-205/1353

WEBS 2-14=-673/228, 3-12=-88/346, 4-12=-71/485, 5-12=-572/162, 5-10=-65/397, 6-10=-1243/204, 7-10=-134/1504, 1-14=-185/1974, 7-9=-1964/278, 3-14=-143/360

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 13-10-11, Exterior(2E) 13-10-11 to 15-9-5, Exterior(2R) 15-9-5 to 18-11-12, Interior(1) 18-11-12 to 27-10-0, Exterior(2R) 27-10-0 to 31-0-6, Interior(1) 31-0-6 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=180, 9=203.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773656 2643945 C04 **ROOF SPECIAL** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:48 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

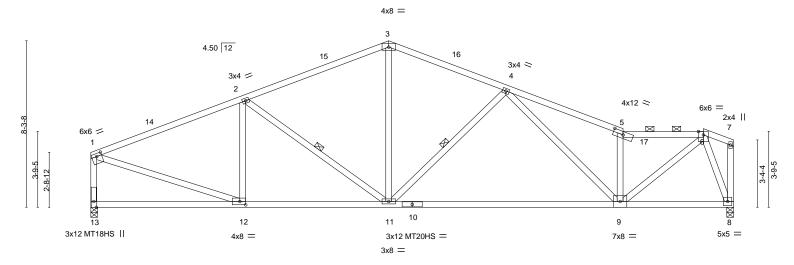
7-3-4

14-10-0

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-NOerK56DAH41Q868YFGp7wHj2Pble?aqrGE27NzmExj 14-10-0

32-0-0 20-8-0 26-6-0 30-6-0 5-10-0 5-10-0 4-0-0 1-6-0

Scale = 1:57.4



7-6-12 Plate Offsets (X,Y)--[1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [12:0-3-8,0-2-0] **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** 197/144 TCLL 25.0 Plate Grip DOL 1.15 TC 0.74 Vert(LL) -0.37 9-11 >999 240 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.78 Vert(CT) -0.81 9-11 >470 180 MT20HS 148/108 **BCLL** 0.0 Rep Stress Incr YES WB 0.54 Horz(CT) 0.07 8 n/a MT18HS 197/144 n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 146 lb FT = 20%Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 13=0-4-0, 8=0-4-0 Max Horz 13=65(LC 9)

Max Uplift 13=-174(LC 8), 8=-197(LC 9) Max Grav 13=1744(LC 1), 8=1744(LC 1)

7-6-12

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

TOP CHORD 1-2=-2223/242, 2-3=-2019/270, 3-4=-1988/273, 4-5=-2521/283, 5-6=-2326/230,

1-13=-1664/202

BOT CHORD 11-12=-255/1983, 9-11=-262/2199, 8-9=-107/654

WEBS 2-12=-501/116, 2-11=-394/158, 3-11=-63/787, 4-11=-670/199, 5-9=-1309/216,

6-9=-200/2200, 1-12=-178/1961, 6-8=-1805/227

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 30-6-0, Exterior(2E) 30-6-0 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=174, 8=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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



32-0-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-7-11 max.): 5-6.

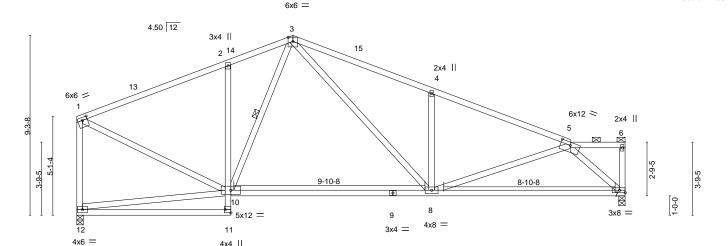
Rigid ceiling directly applied.

1 Row at midpt

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773657 2643945 C05 **ROOF SPECIAL** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:49 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-saBDXR7rxbCu1lhL6yn3g8qsOpvhNTJz4wzcfpzmExi 28-4-0 7-11-8 3-2-8 7-2-0 7-2-0 2-10-0 Scale = 1:59.5



7-11-8 10-0-0 Plate Offsets (X,Y)--[1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [11:Edge,0-3-8] L/d LOADING (psf) SPACING-DEFL. (loc) I/def **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.89 Vert(LL) -0.24 8-10 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.54 8-10 >625 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.51 Horz(CT) 0.06 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 140 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-4-0, 12=0-4-0 Max Horz 12=-127(LC 10)

Max Uplift 7=-180(LC 13), 12=-155(LC 8) Max Grav 7=1542(LC 1), 12=1542(LC 1)

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

1-2=-1559/233, 2-3=-1493/292, 3-4=-2249/358, 4-5=-2228/247, 1-12=-1478/191 TOP CHORD

2-10=-589/200, 8-10=-150/1299, 7-8=-220/1514 BOT CHORD

WFBS 3-10=-117/291, 3-8=-207/1071, 4-8=-711/240, 5-8=-10/500, 5-7=-2024/307,

1-10=-150/1451

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0 , Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=180, 12=155.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt

February 12,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773658 2643945 C06 **ROOF SPECIAL** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:50 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Knlbln8TiuKlfSGXgfIICLM1HDHb6wy7laj9BGzmExh 11-2-0 22-5-0 7-11-8 3-2-8 5-7-8 5-11-0 Scale = 1:58.4 4x6 = 4.50 12 3x4 || 16 2 15 2x4 || 6x6 = 4x6 > 3x4 > 4x4 || 1-10-4 1-0-0 9 5x12 MT20HS = 5x12 = 10 4x8 = 3x6 = 12 4x6 = 4x4 16-9-8 7-11-8 7-11-8 Plate Offsets (X,Y)--[1:0-3-0,0-1-12], [8:Edge,0-1-12], [12:Edge,0-3-8]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

WEBS

TOP CHORD

BOT CHORD

in (loc)

8-9

8-9

8

1 Row at midpt

-0.33

-0.69

0.07

I/def

>999

>487

n/a

Rigid ceiling directly applied.

L/d

240

180

n/a

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

20.0

0.0

10.0

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

8-10: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

REACTIONS. (size) 13=0-4-0, 8=0-4-0

Max Horz 13=-133(LC 10)

Max Uplift 13=-156(LC 8), 8=-175(LC 13) Max Grav 13=1542(LC 1), 8=1542(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

1-2=-1553/236, 2-3=-1494/297, 3-4=-2077/329, 4-5=-2067/258, 5-7=-308/51, TOP CHORD

1.15

1.15

YES

1-13=-1472/194, 7-8=-323/69

BOT CHORD 2-11=-599/203, 9-11=-102/1294, 8-9=-229/1895

WEBS 4-9=-542/178, 3-9=-188/1004, 3-11=-123/272, 5-8=-2019/274, 1-11=-154/1446

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0 Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

Matrix-AS

0.88

0.79

0.48

- All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=156, 8=175.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



GRIP

197/144

148/108

FT = 20%

PLATES

MT20HS

Weight: 142 lb

MT20

Structural wood sheathing directly applied, except end verticals.

3-11, 5-8

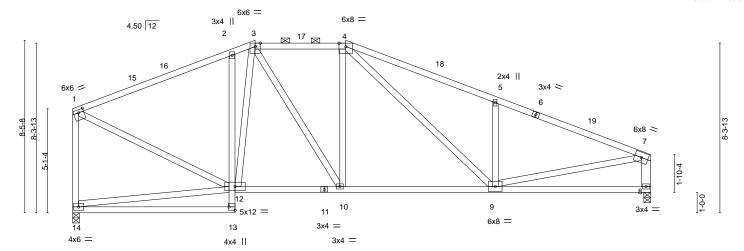
February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773659 HIP 2643945 C07 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-G9tL9TAjDWaTulPwn4KmlmSNI01KagwQmuCGG8zmExf 20-8-9 7-3-15

Scale = 1:56.5



(7-11-8	13-4-11	20-8-9	28-4-0	
	7-11-8	5-5-3	7-3-15	7-7-7	1
Plate Offsets (X,Y)	[1:0-3-0,0-1-12], [13:Edge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.11 13-14 >99	99 240 MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.22 13-14 >99	99 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05 8 n	/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 150 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 *Except* 7-8: 2x6 SPF No.2

REACTIONS. (size) 14=0-4-0, 8=0-4-0

Max Horz 14=-141(LC 10)

Max Uplift 14=-176(LC 8), 8=-180(LC 9) Max Grav 14=1538(LC 1), 8=1538(LC 1)

7-11-8

0-11-13

4-5-5

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

1-2=-1543/241, 2-3=-1488/293, 3-4=-1548/275, 4-5=-2263/382, 5-7=-2270/282, TOP CHORD

1-14=-1460/197, 7-8=-1460/208

BOT CHORD 2-12=-618/230, 10-12=-118/1312, 9-10=-128/1553

WEBS 3-10=-107/533, 4-10=-313/147, 4-9=-190/677, 5-9=-698/237, 7-9=-188/1844,

1-12=-157/1441

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-11-5, Exterior(2E) 8-11-5 to 13-4-11, Exterior(2R) 13-4-11 to 17-7-9, Interior(1) 17-7-9 to 28-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=176, 8=180.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

February 12,2021

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



8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:54 2021 Page 1 Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-CY?6a8B_I7qB83ZIvVMENBXmuqiT2cKiDChNK1zmExd 16-2-11 28-4-0

5-10-15

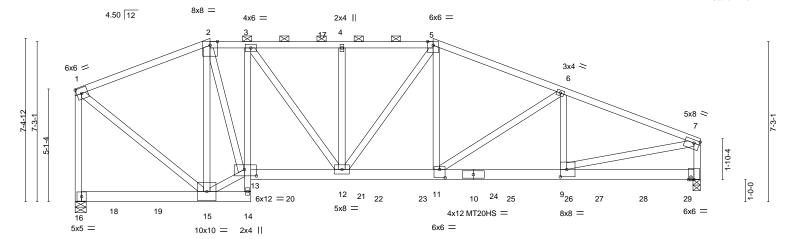
Scale = 1:52.2

6-2-7

Structural wood sheathing directly applied or 4-7-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-2-10 max.): 2-5.

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



 	6-1-5 6-1-5	7-11-8 + 1-10-3	12-1-1 4-1-9	16-2-11 4-1-9	22-1-9 5-10-15	28-4-0 6-2-7
Plate Offsets (X,Y)	[7:0-3-0,0-1-12], [9:0-3-8	3,0-4-0], [11:0-3	3-0,0-4-8], [13:0-6-8,0	-3-8]		
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.65 BC 0.54 WB 0.97 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl L/d -0.15 9-11 >999 240 -0.32 9-11 >999 180 0.09 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 338 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x6 SPF 2100F 1.8E *Except*

14-16: 2x6 SPF No.2, 3-14: 2x4 SPF No.2

2-10-15

1-10-3

4-1-9

WEBS 2x4 SPF No.2

BOT CHORD

REACTIONS. (size) 8=0-4-0, 16=0-6-0

Max Horz 16=-148(LC 6)

Max Uplift 8=-982(LC 5), 16=-952(LC 4) Max Grav 8=6399(LC 1), 16=6147(LC 1)

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

TOP CHORD 1-2=-4814/800, 2-3=-5967/1002, 3-4=-7446/1241, 4-5=-7449/1243, 5-6=-7997/1321,

6-7=-8766/1377, 1-16=-5463/872, 7-8=-5241/837

BOT CHORD 14-15=-52/326, 3-13=-2364/408, 12-13=-881/6014, 11-12=-1125/7368, 9-11=-1264/8121,

WFBS 1-15=-877/5654, 2-15=-3731/562, 13-15=-680/4767, 2-13=-810/5290, 5-11=-389/2275,

6-11=-850/184, 6-9=-328/376, 7-9=-1215/7914, 4-12=-522/130, 5-12=-24/303,

3-12=-418/2466

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

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

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

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 8, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=982, 16=952
- 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.

Cddhtiចិរនេះphorabaudio representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



February 12,2021

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



Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO	
0040045	000	LUB CIRRED				144773660
2643945	C08	HIP GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:54 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-CY?6a8B_I7qB83ZIvVMENBXmuqiT2cKiDChNK1zmExd

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 703 lb down and 113 lb up at 1-8-12, 703 lb down and 128 lb up at 3-8-12, 703 lb down and 162 lb up at 5-8-12, 712 lb down and 103 lb up at 7-9-12, 671 lb down and 116 lb up at 9-8-12, 671 lb down and 116 lb up at 11-8-12, 671 lb down and 116 lb up at 13-8-12, 671 lb down and 116 lb up at 15-8-12, 671 lb down and 169 lb up at 17-8-12, 671 lb down and 134 lb up at 19-8-12, 652 lb down and 103 lb up at 21-8-12, 652 lb down and 110 lb up at 25-8-12, and 658 lb down and 110 lb up at 27-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-90, 2-5=-90, 5-7=-90, 14-16=-20, 8-13=-20

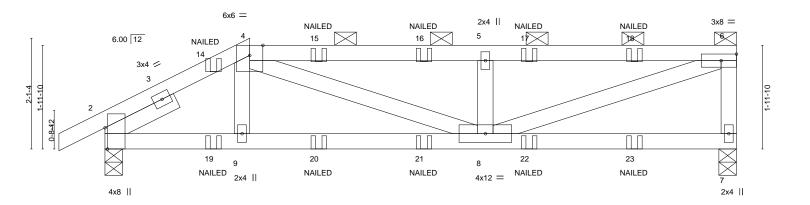
Concentrated Loads (lb)

Vert: 14=-712(B) 15=-703(B) 18=-703(B) 19=-703(B) 20=-671(B) 21=-671(B) 22=-671(B) 23=-671(B) 24=-671(B) 25=-671(B) 26=-652(B) 27=-652(B) 28=-652(B) 29=-658(B)



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773661 2643945 D01 HALF HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:55 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-gkZUoUCcWRy2lD8UTDuTvO3zYE02nCwsSsQwsTzmExc 7-2-12 4-5-12 0-10-8 2-9-0

Scale = 1:21.9



	⊢	2-9-0	7-2-12	12-0-0
		2-9-0	4-5-12	4-9-4
Plate Offs	sets (X,Y)	[2:0-4-13,Edge]		
LOADING	G (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.53 Vert(LL) -0	05 8-9 >999 240 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.65 Vert(CT) -0	11 8-9 >999 180
BCLL	0.0	Rep Stress Incr NO	WB 0.44 Horz(CT) 0	01 7 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS	Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=65(LC 7)

Max Uplift 7=-136(LC 5), 2=-146(LC 8) Max Grav 7=908(LC 1), 2=1015(LC 1)

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

 $2-4=-1386/205,\ 4-5=-1764/265,\ 5-6=-1761/264,\ 6-7=-830/155$ TOP CHORD

BOT CHORD 2-9=-218/1205, 8-9=-220/1194

WEBS 4-8=-88/629, 5-8=-631/186, 6-8=-272/1780

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=136, 2=146
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-5(B) 15=-57(B) 16=-57(B) 17=-57(B) 18=-57(B) 19=-144(B) 20=-41(B) 21=-41(B) 22=-41(B) 23=-41(B)



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

except end verticals, and 2-0-0 oc purlins (3-10-14 max.): 4-6.

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

February 12,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

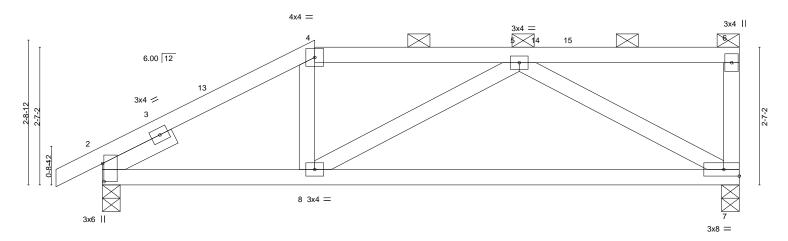
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773662 2643945 D02 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-8x7s?qDEHk5vNNjh0wPiSccC0ePCWh6?hWATPwzmExb 7-10-4 12-0-0 0-10-8 4-0-0 3-10-4

Scale = 1:21.7



	—	4-0-0 4-0-0		+					12-0-0 8-0-0			
Plate Off	fsets (X,Y)	[2:0-4-1,0-0-5]										
LOADIN	\	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 20.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.29 0.46	Vert(LL) Vert(CT)	-0.10 -0.22	7-8 7-8	>999 >651	240 180	MT20	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.31 x-AS	Horz(CT)	0.01	7	n/a	n/a	Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 7=0-4-0 Max Horz 2=88(LC 11)

Max Uplift 2=-68(LC 12), 7=-95(LC 9)

Max Grav 2=734(LC 1), 7=649(LC 1)

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

2-4=-922/181, 4-5=-769/188 TOP CHORD **BOT CHORD** 2-8=-205/774. 7-8=-212/766

WEBS 5-7=-810/221

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

February 12,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773663 2643945 D03 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:57 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-d7gEDADs22Dm?WItaewx?p9H31nVF3p9vAv1xMzmExa

6-6-0

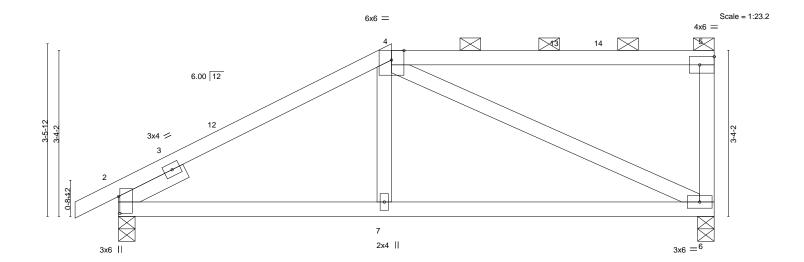


Plate Off	fsets (X,Y)	[2:0-4-1,0-0-5], [5:Edge,0	5-6-0)-2-0]	_						6-6-0		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	, ,					Weight: 45 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

-0-10-8 0-10-8

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=116(LC 11)

Max Uplift 2=-79(LC 12), 6=-92(LC 9) Max Grav 2=734(LC 1), 6=649(LC 1)

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

2-4=-851/177, 5-6=-292/97 TOP CHORD **BOT CHORD** 2-7=-232/701. 6-7=-234/695

WEBS 4-6=-680/210

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0, Exterior(2R) 5-6-0 to 9-8-15, Interior(1) 9-8-15 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

5-6-0

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



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.







Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773664 2643945 D04 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:58 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-5JEdQWEUpMLdcgt38LRAX1hUYR5d_YEI8qfaTozmExZ 12-3-8 0-10-8 7-0-0 4-7-8 0-8-0 Scale = 1:25.7 6x6 = 3x4 || 5 **1**6 17 6.00 12 3x4 / 2x4 = 1-0-0 8x6 10 9 2x4 || 4x4 || 3x6 || 12-3-8 Plate Offsets (X,Y)--[2:0-3-9,0-0-1], [7:0-4-0,0-1-8], [9:Edge,0-3-8] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.06 10-13 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.46 Vert(CT) -0.16 10-13 >936 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.46 Horz(CT) 0.06 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 53 lb BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied, except end verticals, and

BOT CHORD

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

Rigid ceiling directly applied.

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

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

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

Max Horz 2=125(LC 9)

Max Uplift 6=-91(LC 9), 2=-87(LC 12) Max Grav 6=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-692/150

BOT CHORD 2-10=-200/588, 9-10=-122/393, 7-8=-108/259, 6-7=-230/652

WEBS 4-6=-732/232

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021

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 chore 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773665 2643945 D05 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:08:59 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ZWo?dsF6afTUEqSGi2yP4EEjUrS7j26SNUO8?EzmExY -0-10-8 0-10-8 8-6-0 4-4-12 3-1-8 0-8-0 Scale = 1:29.6 6x6 = 2x4 || 6.00 12 2x4 < 3x4 // 3 2x4 = 4x6 || 11 10 3x4 =4x4 || 3x8 || 11-7-8 12-3-8 8-6-0 Plate Offsets (X,Y)--[2:0-4-13,Edge], [8:0-3-0,0-0-8], [10:Edge,0-3-8] SPACING-LOADING (psf) CSI. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.09 11-14 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.19 11-14 >781 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.04 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 1-6-0

REACTIONS.

(size) 7=Mechanical, 2=0-4-0 Max Horz 2=153(LC 9)

Max Uplift 7=-87(LC 9), 2=-91(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-4=-829/171, 4-5=-537/127

2-11=-296/736, 10-11=-115/306, 7-8=-163/423 BOT CHORD

WEBS 4-11=-389/170, 9-11=-15/352, 5-9=-15/325, 5-7=-586/175

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-6-0, Exterior(2E) 8-6-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 56 lb

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773666 2643945 D06 HALF HIP

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

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:00 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-1iMNrCGlLzbKs_0SFmTecSnslFllSVbbc88hYhzmExX

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Scale = 1:34.9

11-7-8 0-10-8 10-0-0 12-3-8 5-1-12 4-10-4 1-7-8

6x6 = 2x4 || 6 6.00 12 3x4 / 卓 2x4 = 1-0-0 11 10 3x4 = 3x4 II 4x8 | 3x4 =

¹0-8-0

BRACING-

TOP CHORD

BOT CHORD

T late Off	Trate Orisets (A, 1) [2.0-4-10, Euge], [0.0-0-0,0-1-0]					
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.16 11-14 >939 240	MT20 197/144	
TCDL	20.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.32 11-14 >456 180		
BCLL	0.0	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02 7 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 57 lb FT = 20%	

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Plate Offsets (X V)-- [2:0-4-13 Edge] [8:0-0-8 0-1-8]

Max Horz 2=181(LC 9)

Max Uplift 7=-90(LC 12), 2=-90(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-798/163, 4-5=-408/103 **BOT CHORD** 2-11=-285/705, 7-8=-118/268

WEBS 4-11=-509/199, 9-11=-12/499, 5-9=-34/427, 5-7=-605/165

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773667 2643945 D07 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:01 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Vuwl2YHN6GjBT8bepT?t9fJwBf3XBvHkgotE47zmExW 5-10-12 5-10-12

4x8 = 2x4 | |6 7 6.00 12 2x4 || 3x4 / ¹4x8 II 1-0-0 12 13 2x4 || 6x6 || 3x6 || 3x6 || 12-3-8 11-7-8 0-1-8

0-8-0

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

			0-6-0	
Plate Offsets (X,Y) [2:0-	-4-1,0-0-5], [5:0-4-0,0-1-15], [10:0-2			
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.77 BC 0.64 WB 0.51 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 13-16 >999 240 Vert(CT) -0.16 13-16 >895 180 Horz(CT) 0.07 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 58 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

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

Max Horz 2=221(LC 12)

Max Uplift 2=-59(LC 12), 9=-144(LC 12) Max Grav 2=741(LC 1), 9=675(LC 1)

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

TOP CHORD 2-4=-642/64, 4-5=-1003/208

BOT CHORD 2-13=-189/667, 12-13=-113/443, 10-11=-443/113 **WEBS** 4-11=-675/284, 5-11=-299/1030, 6-9=-527/192

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 11-6-0, Exterior(2E) 11-6-0 to 12-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:38.9

February 12,2021





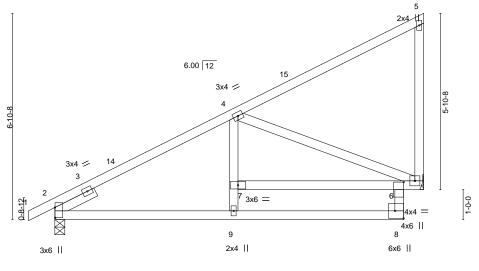
Job Truss Truss Type Qty Ply summit/woodside ridge #36/MO 144773668 2643945 D08 JACK-CLOSED 5 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:02 2021 Page 1

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

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-z4U7GtH?tar25IArNBW6its9P2SiwJdu3RdocZzmExV

12-3-8 0-8-0 0-10-8 5-11-8 5-8-0

Scale = 1:38.4



11-7-8 12-3-8 5-11-8

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.55 BC 0.45	DEFL. in (loc) l/defl L/d Vert(LL) -0.06 6-7 >999 240 Vert(CT) -0.11 9-12 >999 180	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.69 Matrix-AS	Horz(CT) 0.08 6 n/a n/a	Weight: 57 lb FT = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=202(LC 12)

Max Uplift 2=-36(LC 12), 6=-63(LC 12) Max Grav 2=781(LC 1), 6=744(LC 1)

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

TOP CHORD 2-4=-846/0

2-9=-166/730, 8-9=-59/445, 6-8=-27/350, 6-7=-151/403 **BOT CHORD**

WEBS 4-7=0/289, 4-6=-910/225

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773669 2643945 D09 JACK-CLOSED 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-RH2WTDIdeuzvjRl1xu1LE4PMxSrEfou1l5ML90zmExU

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8 0-10-8 6-1-12 6-1-12

Scale = 1:38.3

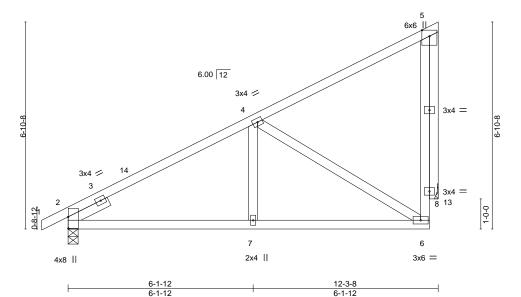


Plate Offsets (X,Y) [2:0-4-9,0-0-1]										
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.31	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.57	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS						Weight: 57 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 13=Mechanical

Max Horz 2=187(LC 12)

Max Uplift 2=-53(LC 12), 13=-93(LC 12) Max Grav 2=754(LC 1), 13=629(LC 1)

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

TOP CHORD 2-4=-830/131, 6-8=-66/437, 5-8=-66/437 **BOT CHORD** 2-7=-166/686, 6-7=-166/686

WEBS 4-7=0/252, 4-6=-732/170, 5-13=-631/136

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021







Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773670 2643945 D10 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:04 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-vTbuhZJFOB5mKbKDUcYanlxXlsBQOFIBWl6vhSzmExT -0-10-8 0-10-8 6-2-11 5-11-3

Scale = 1:37.5

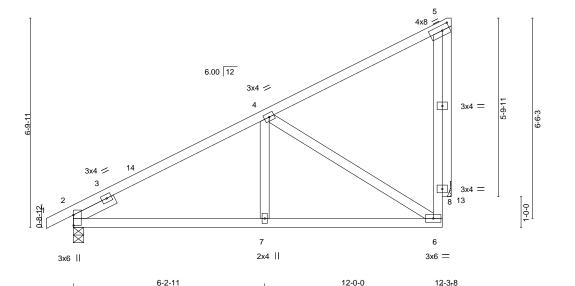


Plate Offsets (X,Y)--[2:0-4-1,0-0-1], [5:0-2-15,0-2-0] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.43 Vert(LL) 0.03 7-11 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.06 7-11 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.02 n/a 13 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 13=Mechanical

Max Horz 2=216(LC 12)

Max Uplift 2=-57(LC 12), 13=-153(LC 12) Max Grav 2=754(LC 1), 13=629(LC 1)

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

2-4=-798/33, 6-8=-80/440, 5-8=-80/440 TOP CHORD **BOT CHORD**

2-7=-171/677. 6-7=-171/677

WEBS 4-7=0/254, 4-6=-728/193, 5-13=-631/153

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=153.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773671 2643945 D11 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:05 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Of9GuvKt9VDdylvP2J3pJVUjAGXf7ksKlPrSDuzmExS -0-10-8 0-10-8 10-7-14 12-3-8 5-5-11 5-2-3 1-7-10 Scale = 1:35.5 6x6 = 6x6 || 6 6.00 12 2x4 || 3x4 =3x4 🖊 3 3x4 =14 1-0-0 8 3x4 =3x8 = 3x6 || 10-7-14 Plate Offsets (X,Y)--[2:0-4-1,0-0-5] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.04 7-8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.10 7-8 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

14

n/a

n/a

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

Rigid ceiling directly applied.

LUMBER-

BCLL

BCDL

2x4 SPF No.2 TOP CHORD

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

0.0

10.0

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=190(LC 12)

Max Uplift 2=-68(LC 12), 14=-123(LC 12) Max Grav 2=754(LC 1), 14=629(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

YES

WB

Matrix-AS

0.34

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

TOP CHORD 2-4=-877/60, 4-5=-910/179, 7-9=-215/649, 6-9=-215/649

BOT CHORD 2-8=-221/719 **WEBS** 4-8=-472/209, 5-8=-216/804, 5-7=-599/244, 6-14=-631/175

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-14, Exterior(2E) 10-7-14 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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 61 lb

Structural wood sheathing directly applied, except end verticals, and

February 12,2021



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

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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773672 2643945 D12 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ssje5FKVwpLUavUcc1a2sj1vygqDsDGT_3b?lKzmExR -0-10-8 0-10-8 9-1-14 4-8-11 4-5-3 3-1-10 Scale = 1:31.2 4x4 = 5x8 = 6 6.00 12 2x4 > 16 4 3x4 / 3 3x4 = 14 9 Ů 7 8 3x8 = 2x4 || 4x8 || Plate Offsets (X,Y)-- [2:0-4-13,Edge], [6:0-1-8,0-3-0]

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.11	8-12	>999	240	MT20	197/144
TCDL 2	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.22	8-12	>664	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	14	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 59 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=163(LC 12)

Max Uplift 2=-75(LC 12), 14=-91(LC 12) Max Grav 2=754(LC 1), 14=629(LC 25)

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

TOP CHORD 2-4=-828/125, 4-5=-494/54, 5-6=-364/91

BOT CHORD 2-8=-257/732

4-8=-440/180, 6-8=-153/611, 6-14=-632/155 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-1-14, Exterior(2E) 9-1-14 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

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Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773673 2643945 D13 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-7-8

4-7-10

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ssje5FKVwpLUavUcc1a2sj1vngs3sEET_3b?lKzmExR

Scale = 1:29.2

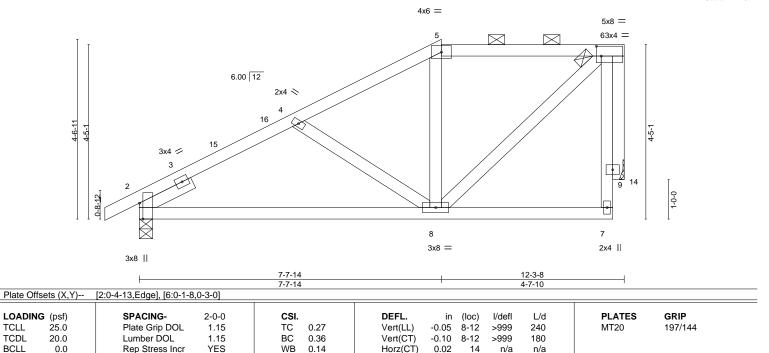
FT = 20%

Weight: 55 lb

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

10.0

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=135(LC 12)

0-10-8

4-0-6

Max Uplift 2=-78(LC 12), 14=-75(LC 9) Max Grav 2=754(LC 1), 14=629(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-4=-893/154, 4-5=-627/101, 5-6=-508/125 **BOT CHORD** 2-8=-263/753

WEBS 6-8=-150/581, 4-8=-301/149, 6-14=-635/152

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-7-14, Exterior(2E) 7-7-14 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

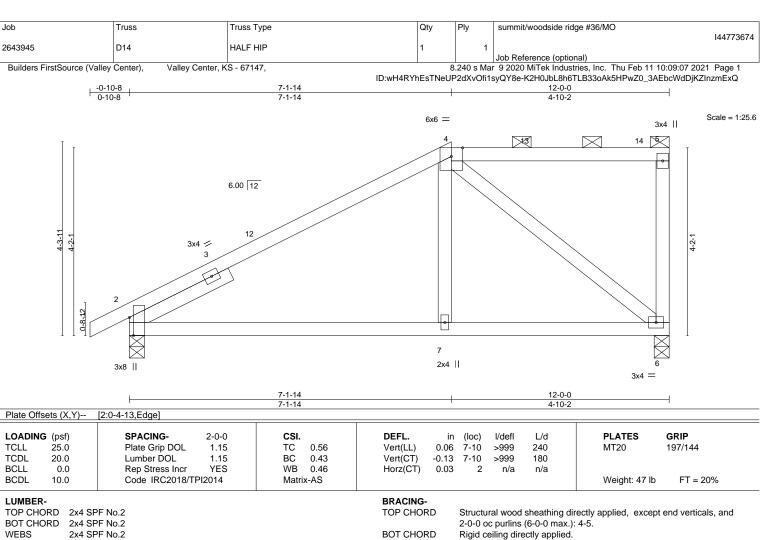
Matrix-AS

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





February 12,2021



LUMBER-

WEBS 2x4 SPF No.2

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

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=147(LC 11)

Max Uplift 2=-87(LC 12), 6=-89(LC 9)

Max Grav 2=734(LC 1), 6=649(LC 1)

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

TOP CHORD 2-4=-661/149

BOT CHORD 2-7=-220/563, 6-7=-221/556 **WEBS** 4-7=0/279, 4-6=-702/234

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-1-14, Exterior(2R) 7-1-14 to 11-4-13, Interior(1) 11-4-13 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773675 2643945 D15 ROOF SPECIAL GIRDER Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:10 2021 Page 1

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-kdz9xcO0_1rw2WnNrsf_0ZBV9H6Sozs3vhZDu6zmExN 19-8-0

Structural wood sheathing directly applied or 4-7-4 oc purlins, except

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

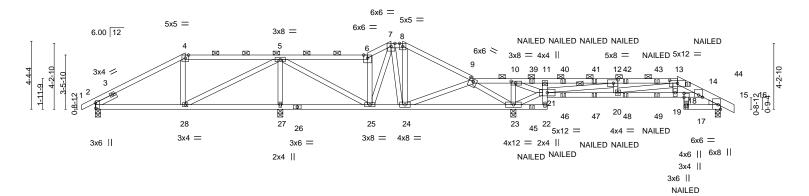
12-21

2-0-0 oc purlins (3-2-2 max.): 4-6, 7-8, 9-13.

10-0-0 oc bracing: 18-19

1 Row at midpt

Scale = 1:73.7



3-0		11-10-0 6-1-0	17-5-0 5-7-0	19-8-0 24-2-0 2-3-0 4-6-0	26-9-0	28-11-0 33-3-8 2-2-0 4-4-8		0 40-0-0
			8,0-1-8], [12:0-3-8,0-2-8]					
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING Plate Grip Lumber D Rep Stres Code IRC	DOL 1.15 OL 1.15	CSI. TC 0.69 BC 0.78 WB 0.49 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.13 19-20 -0.24 19-20 0.07 15	l/defl L/d >999 240 >653 180 n/a n/a	PLATES MT20 Weight: 167 lb	GRIP 197/144 FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 13-16: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 14-21: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. All bearings 0-4-0.

(lb) -Max Horz 2=-67(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-121(LC 8), 15=-198(LC 9),

27=-261(LC 36), 23=-396(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=701(LC 21), 15=977(LC

22), 27=1400(LC 25), 23=2452(LC 1)

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

TOP CHORD 2-4=-668/151, 4-5=-611/171, 5-6=-552/221, 6-7=-635/263, 7-8=-476/240, 8-9=-606/242,

9-10=-339/1951, 10-11=-97/725, 11-12=-50/469, 12-13=-2655/542, 13-14=-2451/494,

14-15=-759/180

2-28=-113/601, 24-25=-133/464, 23-24=-720/372, 11-21=-351/87, 20-21=-516/2655, BOT CHORD

19-20=-425/2362, 18-19=-408/2261, 14-18=-347/1889, 15-17=-70/372 5-28=-112/705, 5-27=-1269/316, 5-25=-212/731, 6-25=-573/198, 7-25=-129/364,

8-24=-266/92, 9-24=-169/1000, 12-21=-3146/604, 12-20=-78/448, 10-23=-732/181,

21-23=-1861/394, 10-21=-280/1359, 9-23=-1567/264, 13-19=-115/631, 13-20=-128/303

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2, 198 lb uplift at joint 15, 261 lb uplift at joint 27 and 396 lb uplift at joint 23.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2 LOAD CASE(S) Standard WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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UMBER PE-2001018807 SSIONAL February 12,2021

OF MISS

SCOTT M.

SEVIER

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO
					144773675
2643945	D15	ROOF SPECIAL GIRDER	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:11 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-CpXX9yOelL_nggMZPaADZmkgvgShXQ5D7LImRYzmExM

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-7=-90, 7-8=-90, 8-9=-90, 9-13=-90, 13-16=-90, 22-29=-20, 18-21=-20, 17-36=-20

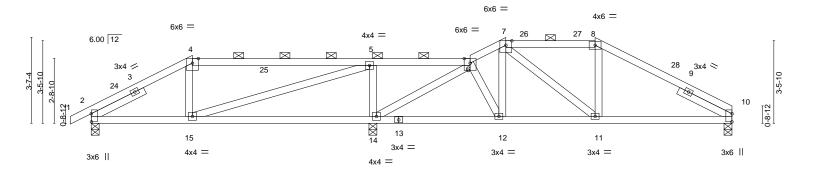
Concentrated Loads (lb)

Vert: 18=-144(F) 39=-57(F) 40=41(F) 41=41(F) 42=41(F) 43=41(F) 44=-5(F) 45=-41(F) 46=-195(F) 47=-195(F) 48=-195(F) 49=-195(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773676 2643945 D16 **ROOF SPECIAL** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:13 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-9CelZeQuHyEUw_WyW?CheBpzmUD??LZVbfntVQzmExK 26-11-0 -0-10-8 0-10-8 15-11-0 17-5-0 21-2-0 7-7-0 4-1-0 1-6-0 3-9-0 5-9-0

Scale: 1/4"=1



<u> </u>	4-3-0	1	1-10-0	15-11-0	17-5-0	21-2-0	26-11-0	
	4-3-0		7-7-0	4-1-0	1-6-0	3-9-0	5-9-0	
Plate Offsets (X,Y)	[2:0-4-1,0-0-1], [10:0	-4-1,0-0-1]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DO	L 1.15	TC 0.86	Vert(LL)	-0.07 14-15	>999 240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.16 14-15	>896 180		
BCLL 0.0	Rep Stress Inc	cr YES	WB 0.42	Horz(CT)	0.01 10	n/a n/a		
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-AS				Weight: 104 lb	FT = 20%
							1	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (4-9-8 max.): 4-6, 7-8. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

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

REACTIONS. (size) 10=0-4-0, 2=0-4-0, 14=0-4-0

Max Horz 2=58(LC 16)

Max Uplift 10=-83(LC 13), 2=-105(LC 12), 14=-180(LC 12) Max Grav 10=752(LC 1), 2=634(LC 1), 14=1654(LC 1)

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

 $2\text{-}4\text{-}652/131,\ 4\text{-}5\text{-}660/153,\ 5\text{-}6\text{-}0/287,\ 6\text{-}7\text{-}-774/176,\ 7\text{-}8\text{-}-834/200,\ 8\text{-}10\text{-}-951/180}$ TOP CHORD **BOT CHORD** 2-15=-117/647, 14-15=-287/41, 12-14=-101/633, 11-12=-82/694, 10-11=-98/834

WEBS 5-15=-122/981, 5-14=-958/214, 6-14=-1043/134

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 4-3-0, Exterior(2R) 4-3-0 to 7-3-0. Interior(1) 7-3-0 to 17-5-0, Exterior(2R) 17-5-0 to 20-5-0, Interior(1) 20-5-0 to 21-2-0, Exterior(2R) 21-2-0 to 24-2-0, Interior(1) 24-2-0 to 26-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 10, 105 lb uplift at joint 2 and 180 lb uplift at joint 14.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



MiTek

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773677 2643945 D17 ROOF SPECIAL GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:15 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-5bm2_KR9paUC9HgKeQF9jcuOYIv2TDZo2zG_aJzmExI

2-7-0

4-7-6

15-11-0

1-6-0

19-3-8

3-4-8

22-8-0

3-4-8

Structural wood sheathing directly applied or 5-4-0 oc purlins, except

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

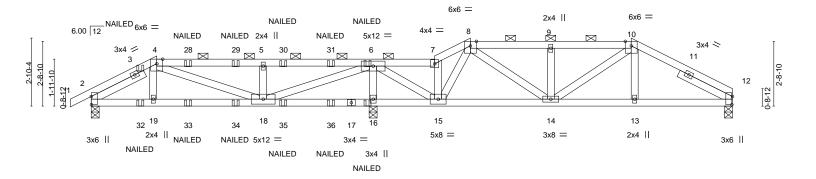
2-0-0 oc purlins (5-1-8 max.): 4-7, 8-10.

5-10-13 oc bracing: 16-18 5-9-5 oc bracing: 15-16.

Scale: 1/4"=1

26-11-0

4-3-0



2	2-9-0 7-2-10	1 1	-10-0	<u>, 14-5-0 _, 15</u>	-11-0 ,	19-3-8	22-8-0	26-11-	0
1 2	2-9-0 4-5-10	'	-7-6	2-7-0 1	-6-0	3-4-8	3-4-8	4-3-0	ı
Plate Offsets (X,Y)	[2:0-4-1,0-0-1], [12:0-4-1,0-	0-5]							
LOADING (psf)	SPACING-	2-0-0 C	SI.	DEFL.	in (oc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15 T	C 0.46	Vert(LL)	-0.04 18	-19 >999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15 E	C 0.43	Vert(CT)	-0.09 18	-19 >999	180		
BCLL 0.0	Rep Stress Incr	NO V	/B 0.52	Horz(CT)	0.01	12 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	.014 N	latrix-MS					Weight: 107 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

BOT CHORD WEBS 2x4 SPF No.2

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

SLIDER

REACTIONS. (size) 12=0-4-0, 2=0-4-0, 16=0-4-0

Max Horz 2=46(LC 12)

Max Uplift 12=-81(LC 30), 2=-158(LC 8), 16=-258(LC 4) Max Grav 12=704(LC 1), 2=855(LC 21), 16=2129(LC 1)

4-5-10

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

TOP CHORD $2\text{-}4\text{=-}1091/204,\ 4\text{-}5\text{=-}1058/214,\ 5\text{-}6\text{=-}1054/212,\ 6\text{-}7\text{=-}317/208,\ 7\text{-}8\text{=-}335/234,}$

8-9=-948/196, 9-10=-948/196, 10-12=-913/145 2-19=-185/975, 18-19=-186/959, 16-18=-944/121, 15-16=-944/121, 14-15=-154/475,

13-14=-95/823, 12-13=-93/826 WEBS 5-18=-587/177, 6-18=-298/2121, 6-16=-1928/296, 6-15=-124/1313, 8-15=-582/94,

8-14=-77/641, 9-14=-375/104

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 12, 158 lb uplift at joint 2 and 258 lb uplift at joint 16.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-7=-90, 7-8=-90, 8-10=-90, 10-12=-90, 20-24=-20



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Continued on page 2



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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO
					144773677
2643945	D17	ROOF SPECIAL GIRDER	1	1	
					Llob Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:16 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ZnKQCgSnatc3nRFXB7mOGqRZlhFHCgpyHd0X6lzmExH

LOAD CASE(S) Standard

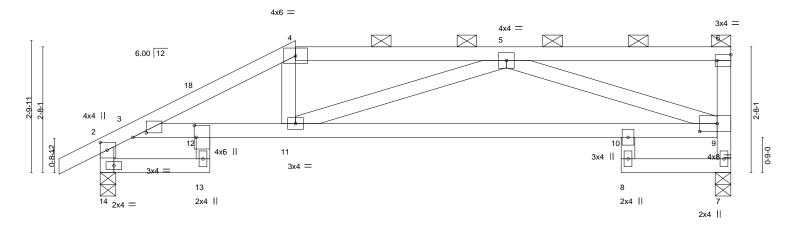
Concentrated Loads (lb)

Vert: 6=-61(F) 16=-45(F) 3=-5(F) 28=-57(F) 29=-57(F) 30=-57(F) 31=-57(F) 32=-144(F) 33=-41(F) 34=-41(F) 35=-41(F) 36=-41(F)



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773678 2643945 E02 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:17 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-1zuoP0TPLBkwObqjlqHdp1_iS5YGx7U5WHl5eCzmExG 13-5-0 0-10-8 2-4-0 1-9-14 4-5-13 2-5-5 2-4-0

Scale = 1:24.5



	L	2-4-0	4-1-14		1	1-1-0			13-5-	0
		2-4-0	1-9-14	1	6	-11-2			2-4-) '
Plate Offse	ets (X,Y)	[2:0-2-0,0-1-12], [3:0-3	-7,0-1-2], [6:Edge	e,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.12 10-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.26 10-11	>597	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.07 7	n/a	n/a		
BCDL	10.0	Code IRC2018	/TPI2014	Matrix-AS	` ′				Weight: 53 lb	FT = 20%
									1	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied, except end verticals, and

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (4-10-12 max.): 4-6. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 7=0-4-0, 14=0-4-0 Max Horz 14=96(LC 11)

Max Grav 7=718(LC 1), 14=817(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-550/108, 3-4=-1477/234, 4-5=-1288/245, 7-9=-676/127, 2-14=-805/201

BOT CHORD 13-14=-144/259, 3-12=-147/1051, 11-12=-291/1310, 10-11=-289/1362, 9-10=-238/1428

WFBS 4-11=0/350, 5-9=-1264/338

NOTES-

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

Max Uplift 7=-106(LC 9), 14=-73(LC 12)

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-14, Exterior(2R) 4-1-14 to 8-7-11, Interior(1) 8-7-11 to 13-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 7 and 73 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

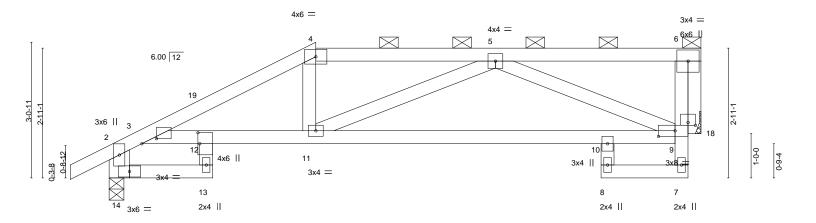


February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773679 2643945 E03 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:18 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-V9SBdMU15Vsn0lPvJYosLFWvIVu1gcHFkxVeAezmExF -0-10-8 0-10-8 8-8-7 13-4-0 2-4-0 2-3-14 4-0-9 2-4-9 2-3-0

Scale = 1:26.0



	2-4-0	4-7-14		1171	-0			13-4-0	
'	2-4-0	2-3-14	ı	6-5-	-2			2-3-0	1
Plate Offsets (X,Y)	[3:0-3-15,0-1-6], [9:0-4-	-8,0-1-8], [9:0-2-	0,0-0-12], [12:0-3-0,0-0-	8]					
	004000	0.00	201	DEE!		1/1 0		DI 4750	0DID
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL) -0	0.08 10-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.61	Vert(CT) -0).17 10-11	>923	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT) 0	0.05 18	n/a	n/a		
BCDL 10.0	Code IRC2018/	TPI2014	Matrix-AS					Weight: 54 lb	FT = 20%

TOP CHORD

BOT CHORD

11-1-0

LUMBER-BRACING-

4-7-14

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

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

OTHERS 2x4 SPF No.2

REACTIONS. (size) 14=0-4-0, 18=Mechanical

Max Horz 14=79(LC 9)

Max Uplift 14=-74(LC 12), 18=-95(LC 9) Max Grav 14=820(LC 1), 18=672(LC 25)

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

TOP CHORD 2-3=-540/84, 3-4=-1352/226, 4-5=-1172/241, 5-6=-254/0, 6-9=-74/490, 2-14=-812/199

BOT CHORD 3-12=-126/939, 11-12=-256/1187, 10-11=-235/1170, 9-10=-186/1196

4-11=0/290, 5-9=-1023/285, 6-18=-691/116 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-14, Exterior(2R) 4-7-14 to 8-8-7, Interior(1) 8-8-7 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 14 and 95 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

February 12,2021



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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773680 2643945 E04 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:19 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-zM?ZqhVfso_eevz6tFJ5uS30BvC2P5TOzbEBj4zmExE -0-10-8 0-10-8

4-11-2

3-9-14

Scale = 1:26.9

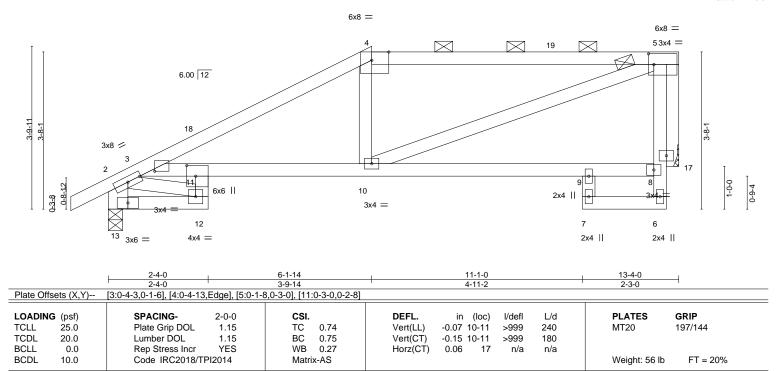
13-4-0

2-3-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-13: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 13=0-4-0, 17=Mechanical

Max Horz 13=100(LC 12)

Max Uplift 13=-82(LC 12), 17=-91(LC 9) Max Grav 13=820(LC 25), 17=672(LC 1)

2-4-0

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

TOP CHORD 2-3=-592/72, 3-4=-1166/202, 4-5=-1013/236, 2-13=-822/190

BOT CHORD 3-11=-98/689, 10-11=-247/1006, 8-9=-31/273 **WEBS** 5-10=-229/839, 5-17=-686/130

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-1-14, Exterior(2R) 6-1-14 to 10-4-13, Interior(1) 10-4-13 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 13 and 91 lb uplift at joint 17.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773681 2643945 E05 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:20 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-RYZx11VHd66VF3YIQzqKQgcGdJY?8a5XCF_IFWzmExD

2-11-1 3-5-2 2-3-0

Scale = 1:29.9

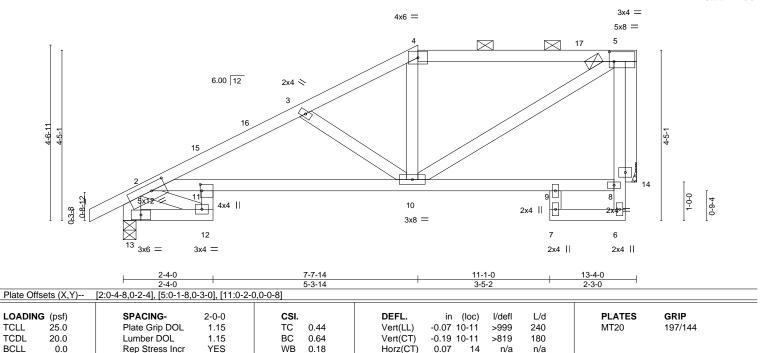
FT = 20%

Weight: 62 lb

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-9-13 max.): 4-5.

Rigid ceiling directly applied.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

-0-10-8 0-10-8

2-4-0

2-4-13

2-13: 2x6 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 13=0-4-0, 14=Mechanical

Max Horz 13=124(LC 12)

Max Uplift 13=-77(LC 12), 14=-85(LC 9) Max Grav 13=820(LC 1), 14=672(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-3=-1213/241, 3-4=-888/170, 4-5=-749/178, 2-13=-839/161 **BOT CHORD** 12-13=-191/262, 2-11=-253/858, 10-11=-336/1052

5-10=-184/728, 3-10=-367/172, 5-14=-679/141

WEBS NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-7-14, Exterior(2R) 7-7-14 to 11-10-13, Interior(1) 11-10-13 to 12-10-12 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

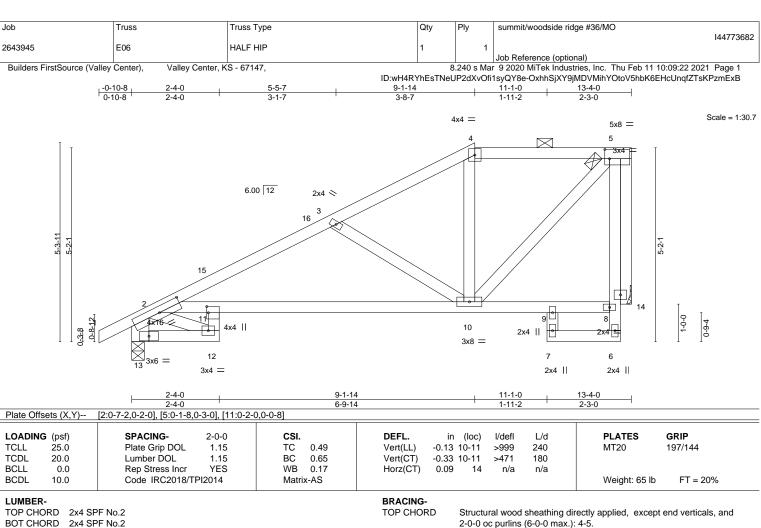
Matrix-AS

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 13 and 85 lb uplift at joint 14.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021





BOT CHORD

Rigid ceiling directly applied.

LUMBER-

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

2-13: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 13=0-4-0, 14=Mechanical

Max Horz 13=151(LC 12)

Max Uplift 13=-77(LC 12), 14=-83(LC 12) Max Grav 13=820(LC 1), 14=672(LC 1)

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

TOP CHORD 2-3=-1136/204, 3-4=-701/117, 4-5=-552/136, 2-13=-819/150

BOT CHORD 2-11=-230/798, 10-11=-322/980

WEBS 5-10=-173/691, 3-10=-508/202, 5-14=-676/149

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-1-14, Exterior(2E) 9-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 13 and 83 lb uplift at joint 14.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773683 2643945 E07 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:22 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-OxhhSjXY9jMDVMihYOtoV5hdl6JwcQEqfZTsKPzmExB -0-10-8 0-10-8 5-5-11 5-5-11 10-7-14 13-4-0 5-2-3 2-8-2 Scale = 1:35.5 6x6 = 6x6 || 5 6 6.00 12 2x4 \\ 15 • 3x4 = 6-0-11 5-11-1 3x4 / 3

> 6-8-0 13-4-0 6-8-0 6-8-0

8 3x4 =

Plate Of	Plate Offsets (X,Y) [2:0-4-1,0-0-5]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS						Weight: 65 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD

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

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

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=190(LC 12)

Max Uplift 2=-77(LC 12), 14=-114(LC 12) Max Grav 2=806(LC 1), 14=691(LC 1)

3x6 ||

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

TOP CHORD 2-4=-814/86, 4-5=-827/127, 7-9=-170/633, 6-9=-170/633 **BOT CHORD** 2-8=-239/800, 7-8=-97/272

WEBS 4-8=-425/177, 5-8=-134/646, 5-7=-617/206, 6-14=-692/165

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-14, Exterior(2E) 10-7-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2 and 114 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



3x4 = 14

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

3x8 =

1-0-0

MiTek

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773684 2643945 E08 Half Hip Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:23 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-s7F3g3YAw1U46WHt65O12IEpqWahLtf_uDCPsrzmExA

3-10-8

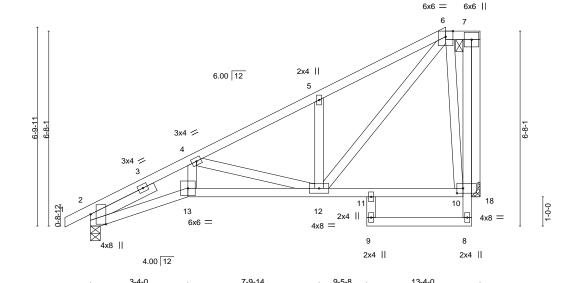
2-0-0 oc purlins (6-0-0 max.): 6-7.

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

12-1-14 13-4-0 0-10-8 0-10-8 9-5-8 3-4-0 4-5-14 1-7-10 2-8-6 1-2-2

Scale = 1:39.4



I late Off	Hate Offsets (A, 1) [2.0 + 1, Edge], [10.0 2 0,0 2 0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06 12-13	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.13 12-13	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06 18	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-AS					Weight: 77 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

4-5-14

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

REACTIONS. (size) 2=0-4-0, 18=Mechanical

Plate Offsets (X V)-- [2:0-4-1 Edge] [10:0-2-8 0-2-0]

Max Horz 2=218(LC 12)

Max Uplift 2=-66(LC 12), 18=-149(LC 12) Max Grav 2=806(LC 1), 18=691(LC 25)

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

TOP CHORD 2-4=-1810/298, 4-5=-897/87, 5-6=-945/191, 7-10=-208/659

BOT CHORD 2-13=-481/1618, 12-13=-444/1494

WEBS 4-13=-107/479, 4-12=-759/250, 5-12=-464/184, 6-12=-259/1012, 6-10=-623/230,

3-4-0

7-18=-692/188

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-14, Exterior(2E) 12-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 149 lb uplift at ioint 18.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773685 2643945 E09 JACK-CLOSED 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:24 2021 Page 1

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

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-KJpStPYohLcwkgs3fovGbWmvBwxE4Jo77tyyOlzmEx9

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8 0-10-8 3-4-0 6-1-8 3-10-8

Scale = 1:41.0

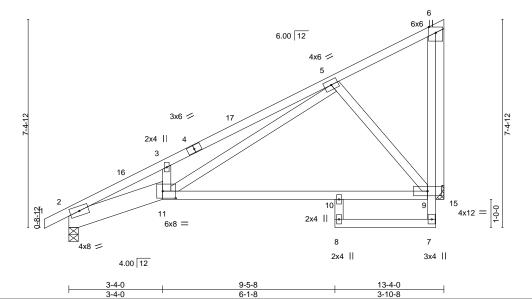


Plate Offsets (X,Y)-- [11:0-5-8,0-3-0]

LOADING (psf) TCLL 25.0 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 0.59 BC 0.62 WB 0.39	DEFL. in (loc) l/defl L/d Vert(LL) -0.22 10-11 >720 240 Vert(CT) -0.51 10-11 >313 180 Horz(CT) 0.07 15 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(01) 0.07 13 11/4 11/4	Weight: 74 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-11: 2x8 SP 2400F 2.0E **WEBS** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 15=Mechanical

Max Horz 2=200(LC 12)

Max Uplift 2=-54(LC 12), 15=-96(LC 12) Max Grav 2=806(LC 1), 15=691(LC 1)

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

TOP CHORD 2-3=-2039/194, 3-5=-2146/307, 6-9=-108/625 **BOT CHORD** 2-11=-376/1821, 10-11=-142/506, 9-10=-144/487

WEBS 3-11=-393/158, 5-9=-693/190, 5-11=-295/1596, 6-15=-692/137

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-10-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 96 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773686 2643945 E10 JACK-CLOSED Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

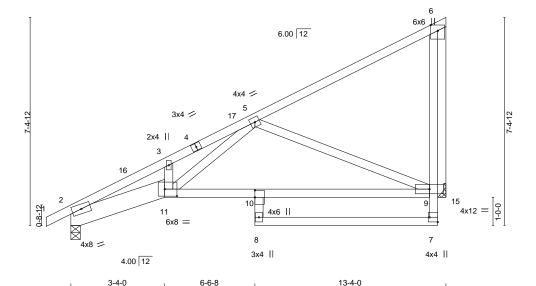
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:25 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-oWNq5lZQSeknMqRFDWQV7jJ6RKGdpghGLWhWwkzmEx8

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8 3-4-0 3-2-8 6-9-8

Scale = 1:41.0



3-4-0 Plate Offsets (X,Y)-- [7:Edge,0-3-8], [10:0-3-0,0-0-0], [11:0-5-4,0-3-0]

LOADING (psf) TCLL 25.0 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 0.50 BC 0.67 WB 0.80	DEFL. in (loc) l/defl L/d Vert(LL) -0.11 8 >999 240 Vert(CT) -0.26 10 >599 180 Horz(CT) 0.05 15 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	11012(01) 0.00 10 11/4 11/4	Weight: 76 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-11: 2x8 SP 2400F 2.0E **WEBS** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 15=Mechanical

Max Horz 2=200(LC 12)

Max Uplift 2=-54(LC 12), 15=-96(LC 12) Max Grav 2=806(LC 1), 15=691(LC 1)

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

TOP CHORD 2-3=-1924/164, 3-5=-1842/210, 6-9=-58/459 **BOT CHORD** 2-11=-343/1693, 10-11=-247/922, 9-10=-283/791 **WEBS** 5-11=-139/968, 5-9=-938/233, 6-15=-692/137

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-10-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 96 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773687 2643945 E11 JACK-CLOSED Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:26 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-GixCl5a2Dysez_0SnDxkgxsGbjgcY75QaAR3TAzmEx7 0-10-8 6-8-0 6-8-0 Scale = 1:40.6 6.00 12 3x4 / 17 3x4 / 3x4 / 10 9 2x4 || 3x6 || 3x8 =13-4-0 Plate Offsets (X,Y)-- [2:0-4-1,0-0-1]

LOADIN	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	9-10	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.08	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 55 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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS.

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

Max Horz 2=265(LC 11)

Max Uplift 2=-74(LC 12), 9=-83(LC 9) Max Grav 2=800(LC 1), 9=732(LC 1)

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

TOP CHORD 2-4=-872/141

BOT CHORD 2-10=-258/739, 9-10=-258/739 **WEBS** 4-10=0/283, 4-9=-828/211

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 83 lb uplift at joint 9.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773688 2643945 E12 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:27 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, $ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-kuUaWQbg_G?Vb7beLxSzC8ORz70hHZfZpqAc?dzmEx6\\$

6-7-12

13-0-0

6-4-4

13-4-0

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

5x5 || 5 6.00 12 3x4 / 4 7-0-13 3x4 / 7 6 2x4 || 3x6 II 3x6 =

Plate Offse	Plate Offsets (X,Y) [2:0-4-1,0-0-1], [5:0-2-1,Edge]							
LOADING	VI /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.05 6-7 >999 240	MT20 197/144			
TCDL	20.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.09 6-7 >999 180				
BCLL	0.0	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.02 6 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 55 lb FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=265(LC 11)

Max Uplift 2=-90(LC 12), 6=-142(LC 12) Max Grav 2=807(LC 1), 6=723(LC 1)

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

0-10-8 0-10-8

TOP CHORD 2-4=-891/143

BOT CHORD 2-7=-252/757. 6-7=-252/757 **WEBS** 4-7=0/287, 4-6=-847/215

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 142 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:40.3

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773689 2643945 E13 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:28 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-C52yjmbJlZ7MDH9que_CIMxfWXLi06cj2UwAX3zmEx5 0-10-8 0-10-8 5-10-12 5-7-4 1-10-0 Scale = 1:37.9 6x6 = 3x4 || 6

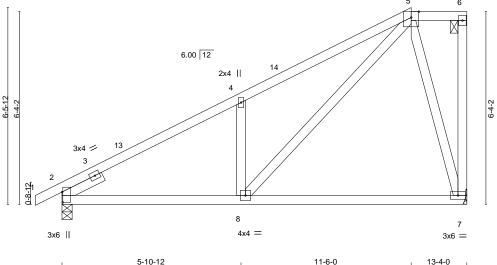


Plate Offsets (X,Y)--[2:0-4-1,0-0-5] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.08 7-8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.39 Vert(CT) -0.167-8 >972 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.47 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 61 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=228(LC 11)

Max Uplift 2=-97(LC 12), 7=-108(LC 12) Max Grav 2=807(LC 1), 7=723(LC 1)

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

2-4=-967/145, 4-5=-1001/254 TOP CHORD

BOT CHORD 2-8=-279/792

WEBS 4-8=-512/215, 5-8=-219/892, 5-7=-676/308

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 11-6-0, Exterior(2E) 11-6-0 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5-10-12

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 2 and 108 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



1-10-0

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

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773690 2643945 E14 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:29 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-hHcLw6cxWtFDqRk1SMVRIZUrExe4lcvsG8fj3VzmEx4 -0-10-8 0-10-8 10-0-0 5-1-12 4-10-4 Scale = 1:33.7 4x6 = 4x4 = 6 6.00 12 2x4 > 14 7 8 2x4 || 4x8 = 4x8 || 10-0-0 3-4-0 Plate Offsets (X,Y)--[2:0-4-13,Edge] SPACING-L/d **PLATES** LOADING (psf) CSI in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.16 8-11 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.58 Vert(CT) -0.32 8-11 >491 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 59 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=200(LC 11)

Max Uplift 7=-93(LC 9), 2=-98(LC 12)

Max Grav 7=723(LC 1), 2=807(LC 1)

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

TOP CHORD 2-4=-908/176, 4-5=-526/122, 5-6=-384/137, 6-7=-723/206 **BOT CHORD** 2-8=-319/799

WEBS 4-8=-493/184, 6-8=-207/711

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 7 and 98 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

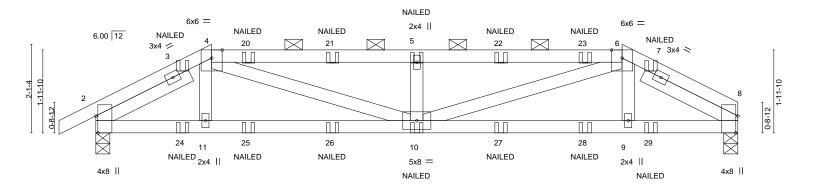
February 12,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773691 2643945 G01 HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:31 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-dgk5LoeB2UVx4luPanXvN_Z2zklfDV69kS8q8OzmEx2 12-6-0 15-3-0 0-10-8 2-9-0 4-10-8 4-10-8 2-9-0

Scale = 1:27.4



	2-9-0	+	7-7-8			-6-0	+	15-3-0	
- DI + O" + O'	2-9-0	40.51.1	4-10-8	•	4-1	10-8	•	2-9-0	
Plate Offsets (X,	') [2:0-4-13,Edge], [8:0-4	-13,Eage]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL	-0.09 10 :	>999 240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.76	Vert(CT	-0.21 10-11	>885 180			
BCLL 0.0	Rep Stress Incr	NO	WB 0.35	Horz(C	0.03 8	n/a n/a			
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-MS				Weight: 5	9 lb FT = 20%	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (2-7-0 max.): 4-6. WEBS 2x4 SPF No.2 **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing. **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=34(LC 8)

Max Uplift 8=-190(LC 9), 2=-207(LC 8) Max Grav 8=1230(LC 1), 2=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2-4=-1916/290,\ 4-5=-3028/456,\ 5-6=-3028/456,\ 6-8=-1930/293$ **BOT CHORD** 2-11=-255/1694, 10-11=-257/1680, 9-10=-243/1695, 8-9=-240/1709

WEBS 4-10=-213/1443, 5-10=-734/208, 6-10=-213/1433

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 8 and 207 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-8=-90, 12-16=-20

Concentrated Loads (lb)

Vert: 10=-41(B) 5=-57(B) 3=-5(B) 7=-5(B) 20=-57(B) 21=-57(B) 22=-57(B) 23=-57(B) 24=-144(B) 25=-41(B) 26=-41(B) 27=-41(B) 28=-41(B) 29=-144(B)



Structural wood sheathing directly applied or 3-8-1 oc purlins, except

February 12,2021



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

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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773692 2643945 H01 HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:32 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-5sITZ8fpoodohvTc7U28vC6NA8nry1aly6uNggzmEx1 8-2-8

1-10-0

2-9-0

2-9-0

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

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

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

Scale = 1:17.4

0-10-8

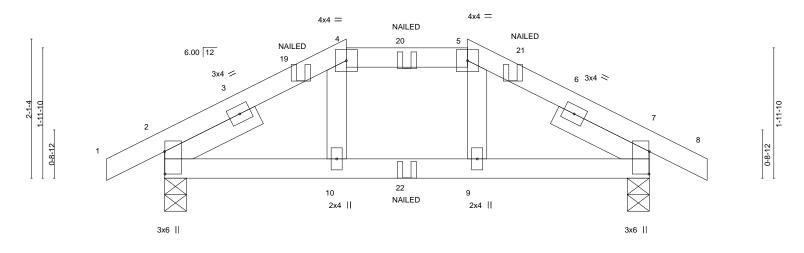


Plate Off	sets (X,Y)	[2:0-4-1,0-0-1], [7:0-4-1,0	-0-1]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	` ģ	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 27 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

4-7-0 1-10-0

LUMBER-

2x4 SPF No.2 TOP CHORD

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

SLIDER Left 2x4 SPF No.2 1-6-15, Right 2x4 SPF No.2 1-6-15

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

0-10-8

2-9-0

Max Horz 2=28(LC 12) Max Uplift 2=-88(LC 8), 7=-88(LC 9)

Max Grav 2=536(LC 1), 7=536(LC 1)

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

2-4=-549/101, 4-5=-460/94, 5-7=-549/101 TOP CHORD BOT CHORD 2-10=-57/464, 9-10=-60/460, 7-9=-59/464

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2 and 88 lb uplift at ioint 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-90, 4-5=-90, 5-8=-90, 11-15=-20

Concentrated Loads (lb)

Vert: 19=-5(B) 20=-57(B) 21=-5(B) 22=-41(B)



February 12,2021





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

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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773693 2643945 H₀2 COMMON Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:33 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Z2srmUfRZ6lfJ22ohBZNSPeYqY6mgUcSBmdxCGzmEx0

3-8-0

3-8-0

Scale = 1:18.9

FT = 20%

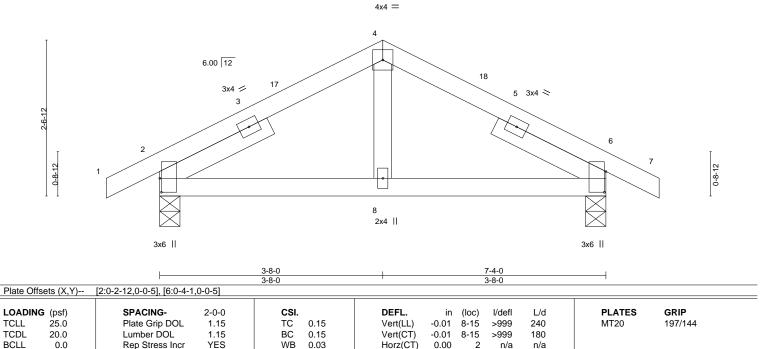
Weight: 27 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

8-2-8

0-10-8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-0-3, Right 2x4 SPF No.2 2-0-3

0-10-8

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=36(LC 12)

Max Uplift 2=-57(LC 12), 6=-57(LC 13)

Max Grav 2=482(LC 1), 6=482(LC 1)

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

Code IRC2018/TPI2014

2-4=-384/185, 4-6=-384/185 TOP CHORD BOT CHORD 2-8=-63/332, 6-8=-63/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-0, Exterior(2R) 3-8-0 to 6-10-14, Interior(1) 6-10-14 to 8-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 57 lb uplift at ioint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773694 2643945 J01 JACK-OPEN 6 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:34 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-1EPE_gg3KPtWxCd_Fv4c?dBkWyUjPxObQQNUljzmEx? 2-0-0 2-0-0 0-10-8 Scale = 1:11.6 6.00 12 2x4 || 2

> 2-0-0 2-0-0

> > BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 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 0.09 BC 0.04 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 4-5 >999 180 Horz/CT) -0.00 3 n/a n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	11012(C1) -0.00 3 11/4 11/4	Weight: 6 lb FT = 20%

2x4 =

LUMBER-

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

WEBS 2x4 SPF No.2

> 5=0-4-0, 3=Mechanical, 4=Mechanical (size) Max Horz 5=44(LC 12)

0-8-12

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

REACTIONS.

Max Uplift 5=-21(LC 12), 3=-29(LC 12) Max Grav 5=219(LC 1), 3=61(LC 1), 4=33(LC 3)

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5 and 29 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

February 12,2021





Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773695 2643945 J01A Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:34 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-1EPE_qq3KPtWxCd_Fv4c?dBkWyUwPxObQQNUljzmEx?

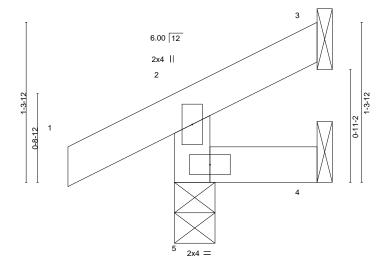
Structural wood sheathing directly applied or 1-2-1 oc purlins,

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

except end verticals.

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

Scale = 1:9.5



1-2-1 1-2-1

LOADING (psf)	SPACING- 2-0-0	CSI.	(/	I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	,	>999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 5 >	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR			Weight: 4 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-4-0, 3=Mechanical, 4=Mechanical (size) Max Horz 5=30(LC 9) Max Uplift 5=-22(LC 12), 3=-13(LC 12), 4=-2(LC 1) Max Grav 5=194(LC 1), 3=12(LC 19), 4=14(LC 3)

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

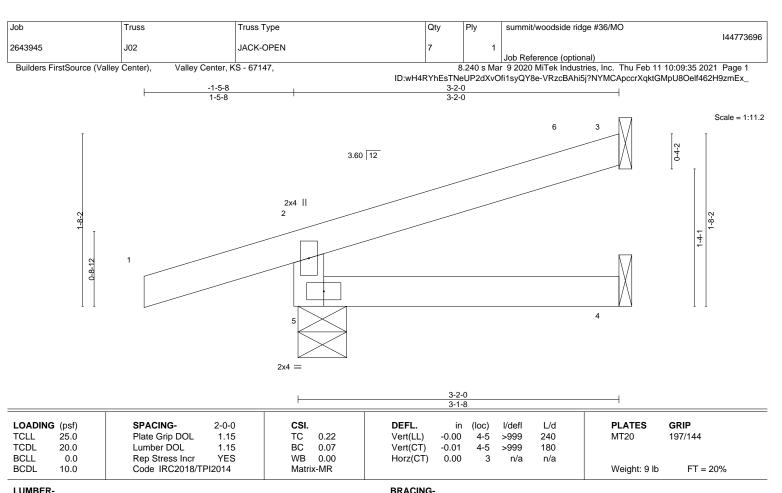
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5, 13 lb uplift at joint 3 and 2 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

5=0-5-11, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=49(LC 8) Max Uplift 5=-88(LC 8), 3=-34(LC 12)

Max Grav 5=346(LC 1), 3=99(LC 1), 4=52(LC 3)

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

TOP CHORD 2-5=-311/200

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 3-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 34 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

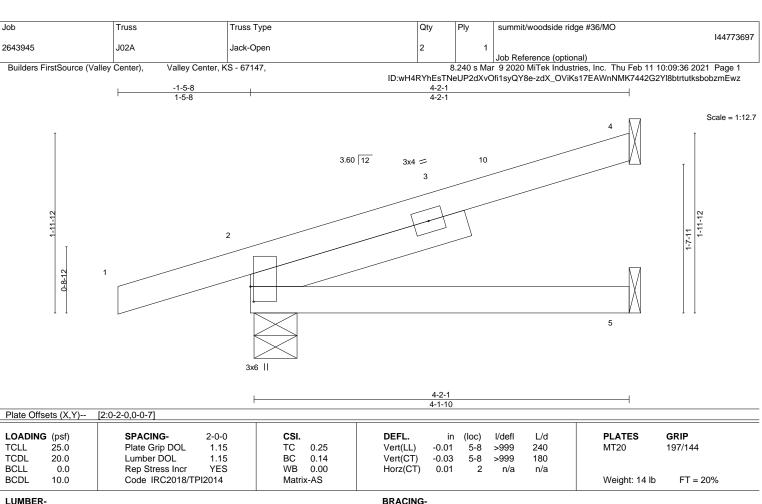


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Structural wood sheathing directly applied or 3-2-0 oc purlins,

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

except end verticals.



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

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

REACTIONS.

(size) 4=Mechanical, 2=0-5-11, 5=Mechanical

Max Horz 2=67(LC 8)

Max Uplift 4=-46(LC 12), 2=-84(LC 8)

Max Grav 4=152(LC 1), 2=381(LC 1), 5=72(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 4-1-5 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 84 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773698 2643945 J03 HALF HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:37 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Sp5McriydKF4ogLZw1eJcFpDt9RNclm16Ob8K1zmEwy 0-10-8 3-0-0 1-0-0 Scale = 1:11.4 4x4 = 4.50 12 1-8-12 -7-1 2 -3-9 0-7-4 5 6 2x4 || 3x6 | 4x4 || 3-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.02 6-9 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.056-9 >948 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 13 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins: 3-4. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing WEDGE Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=49(LC 4)

Max Uplift 4=-32(LC 11), 2=-55(LC 4), 5=-29(LC 8)

Max Grav 4=85(LC 22), 2=304(LC 1), 5=164(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4, 55 lb uplift at joint 2 and 29 lb uplift at joint 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 39 lb up at 3-11-4, and 28 lb down and 32 lb up at 3-0-0 on top chord, and 27 lb down and 2 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

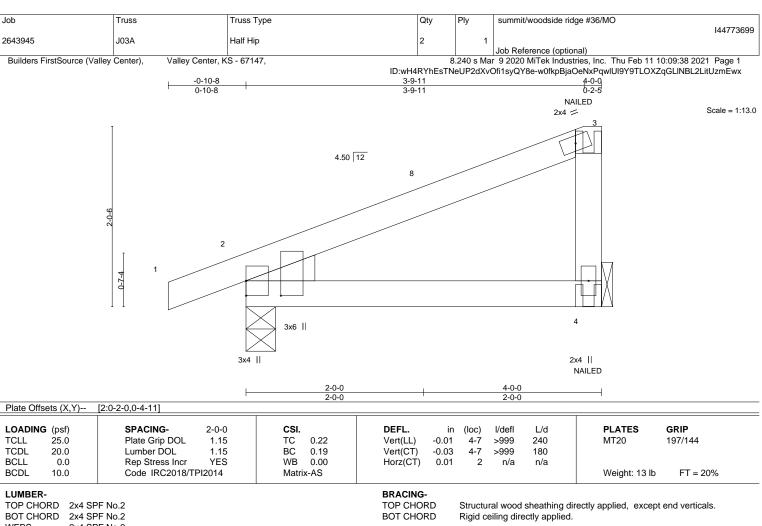
Vert: 1-3=-90, 3-4=-90, 5-7=-20

Concentrated Loads (lb) Vert: 4=-24(F) 6=2(F)



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WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 4=Mechanical, 2=0-4-0 Max Horz 2=72(LC 11)

Max Uplift 4=-53(LC 12), 2=-55(LC 8) Max Grav 4=312(LC 1), 2=300(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 4 and 55 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord.
- 7) "NAILED" indicates 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-90, 4-5=-20

Concentrated Loads (lb)

Vert: 3=-75(F) 4=-33(F)



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Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773700 2643945 J04 JACK-OPEN 17 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-OCD71XkC9yVo1zVy2SgniguZ4z8N4CdKZi4FPwzmEww -0-10-8 4-0-0 0-10-8 4-0-0 Scale = 1:13.3 4.50 12 9 1-8-15 0-7-4 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 25.0 1.15 TC 0.23 Vert(LL) 0.02 4-7 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.03 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 12 lb

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=0-4-0, 4=Mechanical

Max Horz 2=66(LC 8)

Max Uplift 3=-46(LC 12), 2=-47(LC 8)

Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3 and 47 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

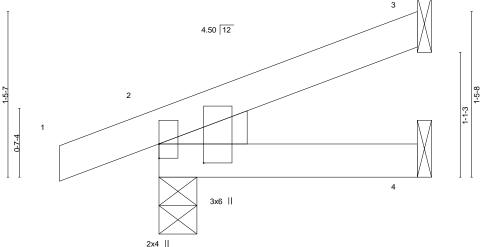


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Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773701 2643945 J05 Jack-Open 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-OCD71XkC9yVo1zVy2SgnigubdzBe4CdKZi4FPwzmEww 2-3-4 0-10-8 Scale = 1:10.1



BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,	Plate Offsets (X,Y) [2:0-2-0,0-4-11]							
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.07	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 7 >999 240	PLATES GRIP MT20 197/144				
TCDL 20.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.05 WB 0.00	Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 2 n/a n/a					
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 7 lb FT = 20%				

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=44(LC 8)

Max Uplift 3=-23(LC 12), 2=-42(LC 8), 4=-2(LC 12) Max Grav 3=72(LC 1), 2=216(LC 1), 4=41(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 3, 42 lb uplift at joint 2 and 2 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

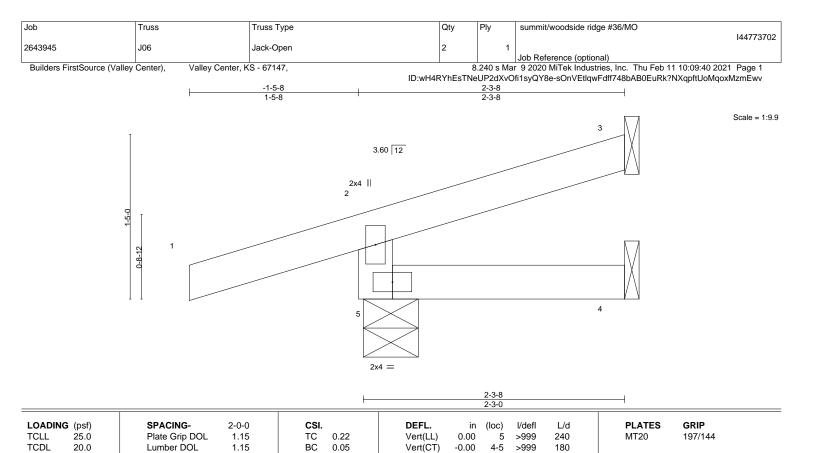


Structural wood sheathing directly applied or 2-3-4 oc purlins.

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

February 12,2021





Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

3

n/a

except end verticals.

n/a

Structural wood sheathing directly applied or 2-3-8 oc purlins,

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

Weight: 7 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

WEBS 2x4 SPF No.2

0.0

10.0

REACTIONS. 5=0-5-11, 3=Mechanical, 4=Mechanical (size) Max Horz 5=39(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 5=-88(LC 8), 3=-21(LC 12)

Max Grav 5=315(LC 1), 3=52(LC 1), 4=32(LC 3)

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

TOP CHORD 2-5=-279/188

NOTES-

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

WB

Matrix-MR

0.00

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

YES

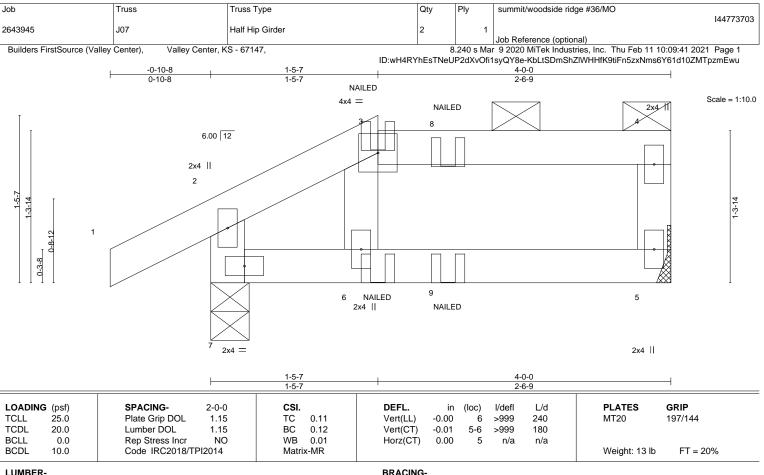
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 21 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

2x4 SPF No 2 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 5=Mechanical, 7=0-4-0 (size) Max Horz 7=45(LC 28) Max Uplift 5=-37(LC 5), 7=-48(LC 8) Max Grav 5=197(LC 1), 7=312(LC 1)

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

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5 and 48 lb uplift at joint 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-90, 2-3=-90, 3-4=-90, 5-7=-20

Concentrated Loads (lb)

Vert: 6=5(F) 9=-14(F)



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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

February 12,2021





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

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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773704 2643945 J08 Half Hip 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:42 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-onuFfZm5SttNuREXjaEUJJW51A8lHYznGgJv0FzmEwt 0-10-8 2-11-7 1-0-9 Scale = 1:13.9 4x4 = 3x4 / 6.00 12 9-6-0-8-12 6 ⁷ 2x4 || 3x6 || 2-11-7 2-11-7 1-0-9 Plate Offsets (X,Y)--[2:0-3-13,0-0-1] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) 0.03 7-10 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.05 7-10 >994 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 15 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

REACTIONS. (size) 5=Mechanical, 2=0-4-0, 6=Mechanical

Max Horz 2=64(LC 12)

Max Uplift 5=-12(LC 8), 2=-34(LC 12), 6=-27(LC 12) Max Grav 5=44(LC 1), 2=304(LC 1), 6=164(LC 1)

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

TOP CHORD 2-4=-299/173

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-7, Exterior(2E) 2-11-7 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 5, 34 lb uplift at joint 2 and 27 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773705 2643945 J09 Jack-Open 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:43 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-GzSdsvnjDA0EWbpjHlljsW3FuaXH0?cwUK2TYhzmEws 4-0-0 0-10-8 4-0-0 Scale = 1:16.5 0-4-11 6.00 12 2-4-1 2x4 || 3x4 =4-0-0 4-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.02

0.01

>999

>999

n/a

Rigid ceiling directly applied.

4-5

4-5

3

240

180

n/a

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

25.0

20.0

0.0

10.0

REACTIONS.

(size) 5=0-4-0, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 12)

Code IRC2018/TPI2014

Max Uplift 5=-26(LC 12), 3=-59(LC 12) Max Grav 5=313(LC 1), 3=150(LC 1), 4=74(LC 3)

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

TOP CHORD 2-5=-284/140

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 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

TC

ВС

WB

Matrix-AS

0.24

0.13

0.00

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

1.15

1.15

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 59 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



197/144

FT = 20%

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 11 lb

February 12,2021



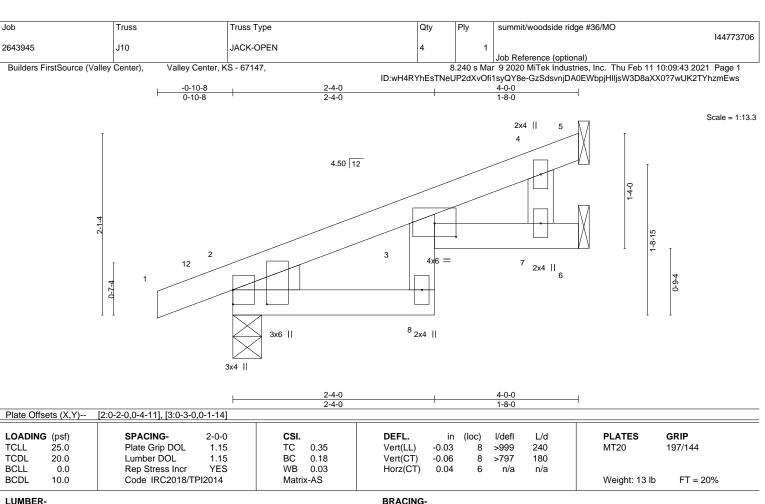


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 5=Mechanical, 2=0-4-0, 6=Mechanical

Max Horz 2=66(LC 8)

Max Uplift 5=-7(LC 1), 2=-47(LC 8), 6=-51(LC 12) Max Grav 5=7(LC 12), 2=305(LC 1), 6=215(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 47 lb uplift at joint 2 and 51 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021



MiTek

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773707 2643945 J11 JACK-OPEN 5 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:44 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-kA004FoL_U858lOvq?GyPkbQq_sYlSs3j_o047zmEwr -0-10-8 4-0-0 0-10-8 4-0-0 Scale = 1:13.3 4.50 12 9 1-8-15 0-7-4 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 25.0 1.15 TC 0.23 Vert(LL) 0.02 4-7 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.03 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 12 lb

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=66(LC 8)

Max Uplift 3=-46(LC 12), 2=-47(LC 8)

Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3 and 47 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773708 2643945 J12 JACK-OPEN

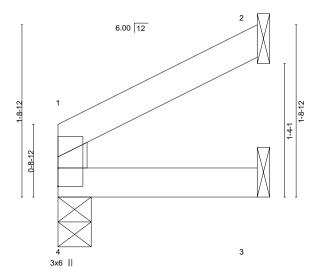
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:45 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-DMaOHapzloGyluz5OjnBxx8eCOECUv6DyeXZdazmEwq

2-0-0

Scale = 1:11.6



2-0-0 2-0-0

Plate Off	sets (X,Y)	[1:0-0-14,0-1-12], [4:0-0-	-0,0-1-12]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	` 4	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	ВС	0.04	Vert(CT)	-0.00	3-4	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MR	` ′					Weight: 5 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. (size) 4=0-4-0, 2=Mechanical, 3=Mechanical

Max Horz 4=30(LC 9) Max Uplift 2=-31(LC 12)

Max Grav 4=101(LC 1), 2=77(LC 1), 3=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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

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

except end verticals.

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773709 2643945 J13 JACK-OPEN Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-DMaOHapzloGyluz5OjnBxx8bMOBKUv6DyeXZdazmEwq 4-0-0 Scale = 1:13.3 4.50 12 1-8-15 0-7-4 3 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[1:0-2-0,0-4-11] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.24 Vert(LL) 0.02 3-6 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.23 Vert(CT) -0.03 3-6 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 1=0-4-0, 2=Mechanical, 3=Mechanical

Max Horz 1=54(LC 12)

Max Uplift 1=-18(LC 12), 2=-46(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 1=217(LC 1), 2=151(LC 1), 3=79(LC 3)

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

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

WB

Matrix-AS

0.00

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

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 46 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 20%

Weight: 10 lb

February 12,2021





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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773710 **GABLE** 2643945 LG01

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:46 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-hY8mVwpbV5OpN2XIyQIQU9hoPnaFDI4MAIH790zmEwp

7-9-11 7-9-11

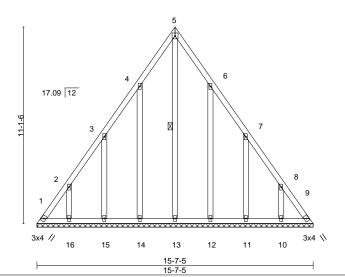
> Scale = 1:65.1 4x4 =

> > 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



LOADIN TCLL TCDL	G (psf) 25.0 20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.10 0.05	DEFL. Vert(LL Vert(C	,	(loc)	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES	WB Matri	0.27	Horz(C	,	9	n/a	n/a	Weight: 93 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 15-7-5. Max Horz 1=-277(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-163(LC 10), 9=-129(LC 11), 14=-182(LC 12),

15=-185(LC 12), 16=-176(LC 12), 12=-181(LC 13), 11=-186(LC 13), 10=-176(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 13 except 1=349(LC 12), 9=328(LC 13), 14=280(LC 19), 15=267(LC 19), 16=262(LC 19), 12=278(LC 20), 11=268(LC 20), 10=261(LC 20)

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

1-2=-438/297, 2-3=-272/207, 8-9=-413/297 TOP CHORD

BOT CHORD 1-16=-180/266, 15-16=-180/266, 14-15=-180/266, 13-14=-180/266, 12-13=-180/266,

11-12=-180/266, 10-11=-180/266, 9-10=-180/266

WEBS 4-14=-260/199, 3-15=-268/204, 6-12=-260/197, 7-11=-268/204

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 7-9-11, Exterior(2R) 7-9-11 to 10-9-11, Interior(1) 10-9-11 to 15-3-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 1, 129 lb uplift at joint 9, 182 lb uplift at joint 14, 185 lb uplift at joint 15, 176 lb uplift at joint 16, 181 lb uplift at joint 12, 186 lb uplift at joint 11 and 176 lb uplift at joint 10.
- 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 12,2021



144773711 2643945 LG02 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:47 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-9li8iGqDGPWg?C6UV8pf0MDyDBwpyp6WPy0ghSzmEwo 8-11-11 4-5-14 4-5-14 Scale = 1:25.3 4x4 = 3 10.06 12 2x4 || 2x4 || 10 2x4 / 2x4 🚿 2x4 || 2x4 || 2x4 || 8-11-11 8-11-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.09 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 30 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

Qty

summit/woodside ridge #36/MO

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

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

LUMBER-

Job

Truss

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 8-11-11. Max Horz 1=80(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-108(LC 12), 6=-108(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=287(LC 19), 6=287(LC 20)

Truss Type

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-5-14, Exterior(2R) 4-5-14 to 7-5-14 , Interior(1) 7-5-14 to 8-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=108, 6=108
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #36/MO	
					144773712	
2643945	LG03	GABLE	1	1		
					Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:48 2021 Page 1 ID:3seZTgShN_qvhelqPBpz4myNXMX-dxGWwcrs1jeXcMhg3rKuZam60bGBhDBfecmEDvzmEwn

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

6-7, 5-8

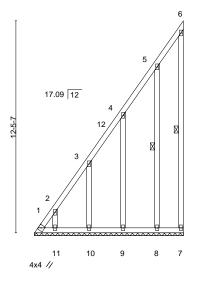
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

5-2-7 7-2-7 8-8-15 2-0-0 2-0-0 1-6-8

Scale = 1:67.7



5-2-7 2-0-0

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.15 BC 0.02	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.24 Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 65 lb FT = 20%

LUMBER-BRACING-

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

2x4 SPF No.2

WEBS All bearings 8-8-15. Max Horz 1=434(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-248(LC 10), 11=-153(LC 12), 10=-185(LC 12), 9=-185(LC 12), 8=-165(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 11, 8 except 1=601(LC 12), 10=274(LC 19), 9=273(LC 19)

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

1-2=-782/679, 2-3=-614/553, 3-4=-409/386 TOP CHORD WEBS 3-10=-283/236, 4-9=-283/202, 5-8=-253/181

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-6 to 4-6-4, Exterior(2R) 4-6-4 to 8-7-3 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=248, 11=153, 10=185, 9=185, 8=165,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773713 2643945 LG04 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:49 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3seZTgShN_qvhelqPBpz4myNXMX-57pv7ysUo0mNEWGtdZs76nJIr?c8QjJptFVnmLzmEwm 12-6-6 6-3-3 6-3-3 6-3-3

3x4 =

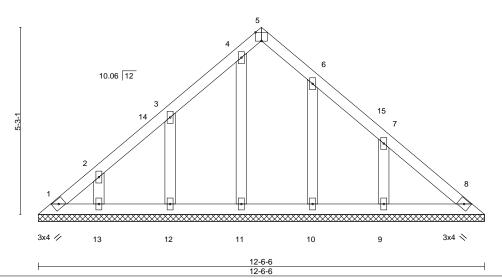


Plate Offsets (X	r) [5:0-2-0,Eage]		
LOADING (psf	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 47 lb FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 12-6-6.

(lb) -Max Horz 1=-115(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 12, 11, 10 except 9=-116(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 12, 11, 10 except 9=300(LC 20)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-3-3, Exterior(2R) 6-3-3 to 9-3-3, Interior(1) 9-3-3 to 12-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 12, 11, 10 except (it=lb) 9=116.
- 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.



Scale = 1:32.3

February 12,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773714 2643945 LG05 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:50 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3seZTgShN_qvhelqPBpz4myNXMX-ZJNHKIt6ZKuEsgr3BGNMe?rTkPyZ9Auy5vFKInzmEwl

3x4 =

4-10-8

4-10-8

Scale = 1:26.5

10.06 12 3 6 13 0-0-4 11 10 9 8

Plate Off	rsets (X,Y)	[4:0-2-0,Edge]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 7 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 33 lb FT = 20%

9-9-1

LUMBER-

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

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

0-0-4

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

REACTIONS. All bearings 9-8-12.

(lb) -Max Horz 1=-88(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 10, 9 except 8=-104(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9 except 8=261(LC 20)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-5-4, Interior(1) 3-5-4 to 4-10-8, Exterior(2R) 4-10-8 to 7-10-8, Interior(1) 7-10-8 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 10, 9 except (it=lb) 8=104.
- 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 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773715 GABLE 2643945 LG06

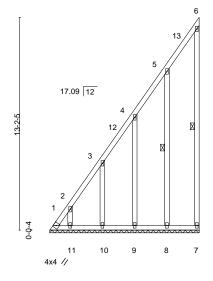
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:51 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-1WxfYetkKe05TpQFkzubBCOdDolsuay5KZ_uqEzmEwk

9-3-3

Scale = 1:71.4



LOADING TCLL	(psf) 25.0	SPACING- 2-0- Plate Grip DOL 1.1			DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	20.0	Lumber DOL 1.1	BC BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	S WB	0.23	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Mat	rix-S						Weight: 68 lb	FT = 20%

LUMBER-BRACING-

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

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 1 Row at midpt 6-7, 5-8

REACTIONS. All bearings 9-3-3.

Max Horz 1=451(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-257(LC 10), 8=-182(LC 12), 9=-182(LC 12), 10=-186(LC

12), 11=-155(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 11 except 1=621(LC 12), 8=279(LC 19), 9=265(LC 19),

10=275(LC 19)

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

TOP CHORD 1-2=-809/705, 2-3=-647/585, 3-4=-435/418, 4-5=-258/260

WEBS 5-8=-287/201, 4-9=-273/197, 3-10=-284/234

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-6 to 4-6-4, Exterior(2R) 4-6-4 to 9-1-7 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=257, 8=182, 9=182, 10=186, 11=155.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773716 2643945 LG07 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:52 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:3seZTgShN_qvhelqPBpz4myNXMX-ViV1I_uM5x8y5z?SlhPqjQxpbCdhd3fFZDkRMgzmEwj

4-9-3 4-9-2

> Scale = 1:44.7 4x4 =

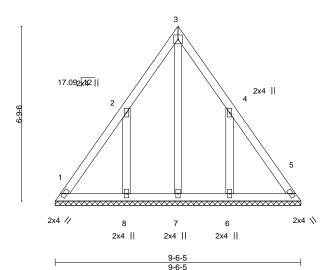


Plate Off	sets (X,Y)	[4:0-0-1,0-0-0]										
LOADING	\(\frac{1}{2}\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 43 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 9-6-5.

(lb) -Max Horz 1=-165(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-247(LC 12), 6=-246(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=367(LC 19), 6=366(LC 20)

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

2-8=-352/254, 4-6=-352/253 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 4-9-3, Exterior(2R) 4-9-3 to 7-9-3, Interior(1) 7-9-3 to 9-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=247 6=246
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773717 2643945 LG08 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:53 2021 Page 1 $ID: 3 seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvhelqPBpz4myNXMX-_u3PzJv_sFGpj7aesOw3GdTzTcyUMWjOotT?v6zmEwi2Df3seZTgShN_qvarAdf3seZTgShN_qva$

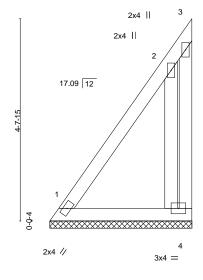
Structural wood sheathing directly applied or 3-3-5 oc purlins,

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

except end verticals.

3-3-5

Scale = 1:26.6



LOADING	VI /	SPACING- 2-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL 1.	15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YI	ES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-P						Weight: 18 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1=3-3-5, 4=3-3-5 (size) Max Horz 1=144(LC 9) Max Uplift 1=-35(LC 8), 4=-102(LC 9) Max Grav 1=205(LC 20), 4=209(LC 19)

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

TOP CHORD 2-3=-279/260, 3-4=-264/278

WEBS 2-4=-411/340

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=102.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773718 2643945 LG09 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:54 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3seZTgShN_qvhelqPBpz4myNXMX-S5doAfwcdZOgKH9qQ6Rlor09T0JB5zWY0XDYRYzmEwh 15-10-6 11-5-5 Scale = 1:36.4 3x4 //

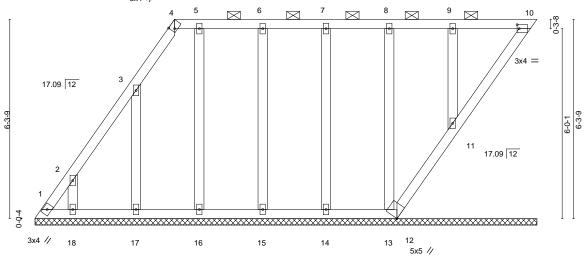


Plate Off	fsets (X,Y)	[4:0-1-2,Edge], [10:0-0-1	2,0-1-8], [12:0-	1-7,0-1-0], [13:0-1-0,0-1-	7]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 78 lb	FT = 20%

15-10-6

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

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-10. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-10-3

Max Horz 1=222(LC 12) (lb) -

0-0-3

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 12, 16, 15, 14, 13, 11 except 18=-162(LC 12),

17=-160(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 10, 12, 18, 16, 15, 14, 13 except 17=252(LC 19), 11=290(LC

11-5-3

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

TOP CHORD 1-2=-304/248

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-2-7, Interior(1) 3-2-7 to 4-5-1, Exterior(2R) 4-5-1 to 7-2-7, Interior(1) 7-2-7 to 15-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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, 10, 12, 16, 15, 14, 13, 11 except (jt=lb) 18=162, 17=160.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

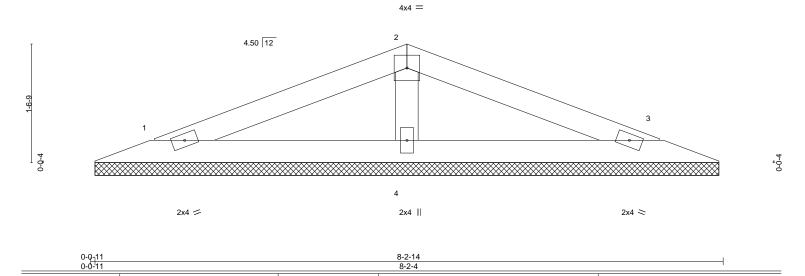


February 12,2021



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773719 2643945 V01 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:55 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-wHBAO?wFOsWXyRk0zpzXL2ZIIQemqR1hFBy5z?zmEwg 8-2-14

Scale = 1:15.0



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

I/defI

n/a

n/a

n/a

(loc)

3

n/a

n/a

0.00

L/d

999

999

n/a

PLATES

Weight: 18 lb

MT20

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

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

GRIP

197/144

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

20.0

0.0

10.0

OTHERS 2x4 SPF No.2

> 1=8-1-9, 3=8-1-9, 4=8-1-9 (size)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 1=20(LC 16)

Max Uplift 1=-31(LC 12), 3=-34(LC 13), 4=-17(LC 8) Max Grav 1=179(LC 1), 3=179(LC 1), 4=364(LC 1)

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

2-4=-282/146 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-P

0.25

0.09

0.04

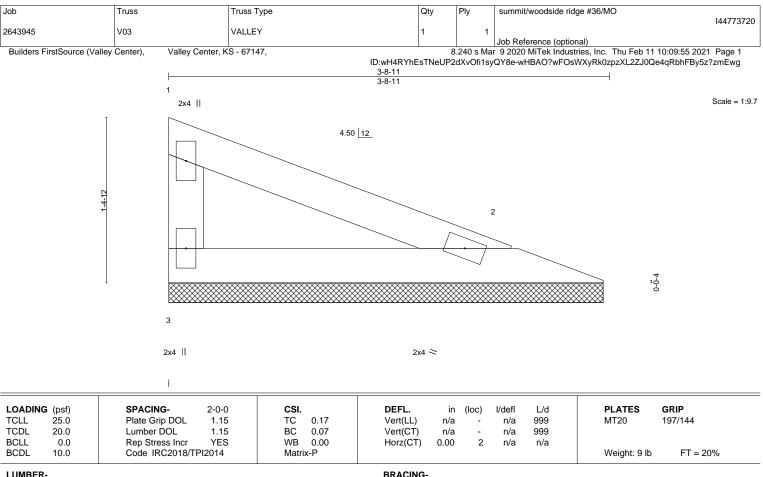
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 12,2021







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=3-8-0, 2=3-8-0 (size) Max Horz 3=-42(LC 8)

Max Uplift 3=-26(LC 13), 2=-19(LC 13) Max Grav 3=151(LC 1), 2=151(LC 1)

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

NOTES-

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



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

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

except end verticals.

February 12,2021





Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773721 2643945 V04 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:56 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-OTIYbLxt9AeOabIDXXUmuG5S0p_dZu2qUrifVRzmEwf

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

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

except end verticals.

6-4-11

Scale = 1:15.4

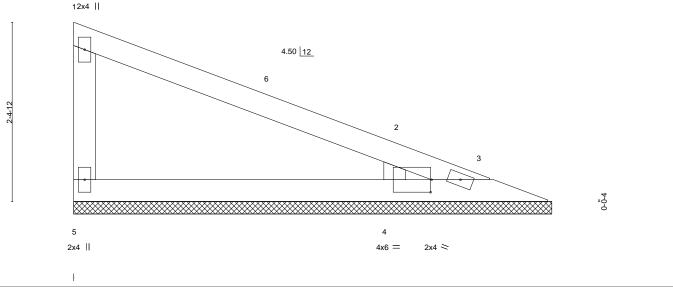


Plate Offs	sets (X,Y)	[2:0-1-12,0-0-10], [4:0-0-	2,0-2-0], [4:0-	1-12,0-0-0]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-P						Weight: 16 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SPF No.2

(size) 5=6-4-11, 3=6-4-11, 4=6-4-11

Max Horz 5=-82(LC 8)

Max Uplift 5=-30(LC 13), 3=-78(LC 1), 4=-96(LC 13) Max Grav 5=183(LC 1), 3=38(LC 13), 4=489(LC 1)

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

WEBS 2-4=-400/244

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-3-8, Interior(1) 4-3-8 to 5-6-10 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773722 2643945 V05 VALLEY Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:57 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-sglwohyVwUmFBktP5E??QTedIDJZILB_iVRC2tzmEwe 9-0-11 Scale = 1:21.1 2x4 | 4.50 12 2x4 || 7-0-6 5 2x4 > 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.31 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 25 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 **OTHERS** 2x4 SPF No.2

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

Max Horz 5=-122(LC 8)

Max Uplift 5=-21(LC 8), 3=-8(LC 13), 4=-93(LC 9) Max Grav 5=161(LC 1), 3=185(LC 1), 4=542(LC 1)

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

WEBS 2-4=-434/201

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 8-2-10 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

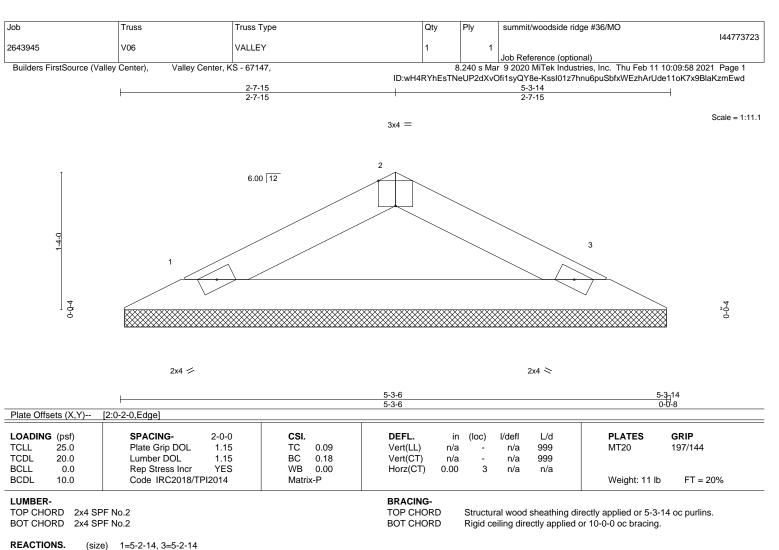
February 12,2021



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





1=5-2-14, 3=5-2-14 (size) Max Horz 1=-16(LC 13)

Max Uplift 1=-23(LC 12), 3=-23(LC 13) Max Grav 1=223(LC 1), 3=223(LC 1)

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

NOTES-

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





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

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



Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773724 Valley 2643945 V07 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:58 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Kssl01z7hnu6puSbfxWEzhAoKdfE1ok7x9BlaKzmEwd 3-8-0 Scale = 1:15.6 4x4 =6 6.00 12 0-3-0 0-3-0 2x4 || 2x4 / 2x4 > LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.29 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 19 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

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

REACTIONS.

1=7-4-0, 3=7-4-0, 4=7-4-0 (size)

Max Horz 1=28(LC 16)

Max Uplift 1=-34(LC 12), 3=-39(LC 13), 4=-12(LC 12) Max Grav 1=200(LC 1), 3=200(LC 1), 4=375(LC 1)

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

2-4=-286/145 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.









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

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

Job Truss Truss Type Qty summit/woodside ridge #36/MO 144773725 2643945 V08 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 11 10:09:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-o2QgDNzlS51zR21oCf1TVuj_Z1?ZmFzHApwJ6mzmEwc 3-8-0 3-8-0 Scale = 1:19.1 4x4 = 2 6.00 12 2x4 || 10 2-10-0 2x4 || 3 6 2x4 || 2x4 || 2x4 |

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

0.00

I/defI

n/a

n/a

n/a

except end verticals.

L/d

999

999

n/a

PLATES

Weight: 22 lb

MT20

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

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

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

20.0

0.0

10.0

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

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

REACTIONS. (size) 6=7-4-0, 4=7-4-0, 5=7-4-0

Max Horz 6=-46(LC 8)

Max Uplift 6=-43(LC 12), 4=-43(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 6=224(LC 1), 4=224(LC 1), 5=327(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-R

0.20

0.10

0.04

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



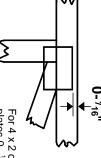


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



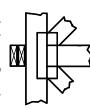
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

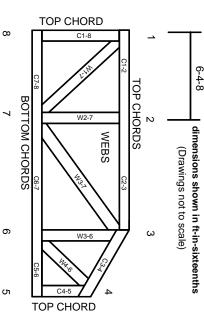
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.