



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

03/22/2021

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

Re: 2630316
2630316/woodside ridge 40/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: I44967110 thru I44967197

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

Missouri COA: Engineering 001193



February 25, 2021

Johnson, Andrew ,Engineer

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

Job

2630316

Truss

A01

Truss Type

Hip Girder

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

2-11-12

5-8-0

9-5-15

13-2-1

17-0-0

19-8-4

22-8-0

23-6-8

0-10-8

2-11-12

2-8-4

3-9-15

3-8-3

3-9-15

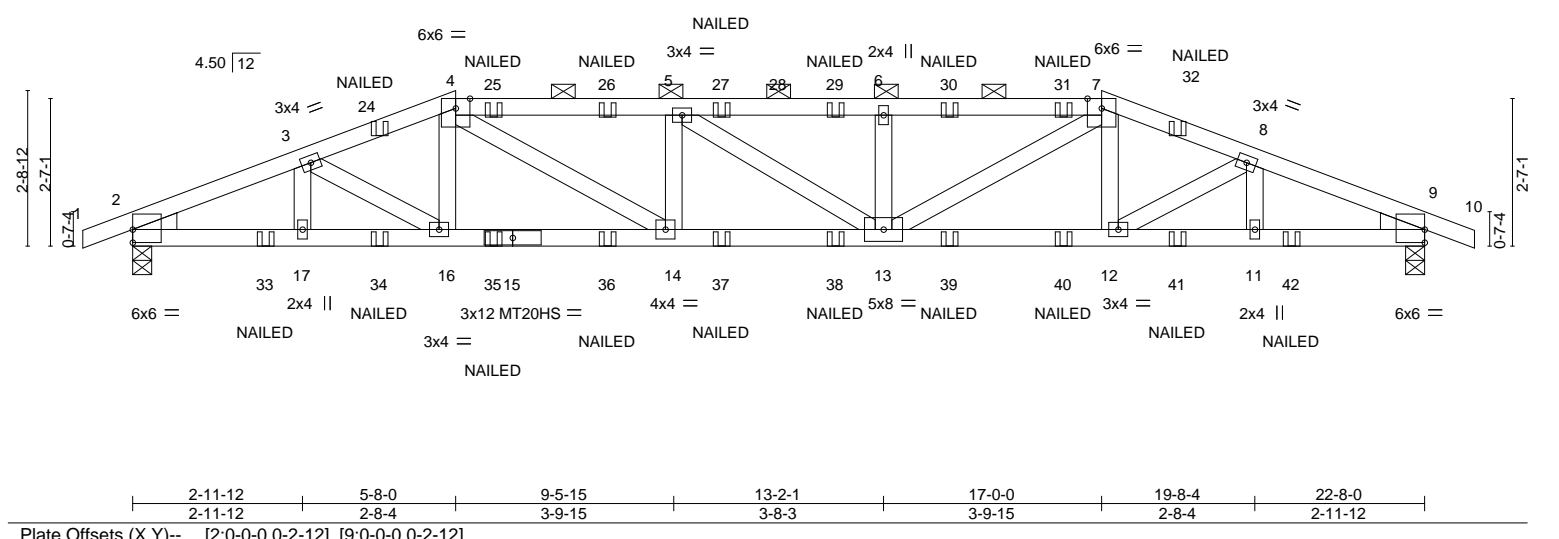
2-8-4

2-11-12

0-10-8

Scale = 1:40.4

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
03/22/2021



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.20	13-14	>999	240	MT20 197/144
TCDL 20.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.45	13-14	>608	180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.31	Horz(CT)	0.10	9	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
									Weight: 89 lb FT = 20%

LUMBER-
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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except 2-0-0 oc purlins (2-2-8 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS. (size) 2=0-4-0, 9=0-4-0
Max Horz 2=37(LC 29)
Max Uplift 2=-357(LC 4), 9=-357(LC 5)
Max Grav 2=1904(LC 1), 9=1904(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3526/651, 3-4=-3571/671, 4-5=-4391/841, 5-6=-4383/838, 6-7=-4387/839, 7-8=-3572/671, 8-9=-3526/652
BOT CHORD 2-17=-584/3214, 16-17=-584/3214, 14-16=-591/3352, 13-14=-783/4387, 12-13=-564/3353, 11-12=-556/3214, 9-11=-556/3214
WEBS 3-16=-36/277, 4-14=-252/1271, 5-14=-557/184, 6-13=-529/177, 7-13=-250/1266, 8-12=-37/279

- 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) 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 357 lb uplift at joint 2 and 357 lb uplift at joint 9.
 - 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 guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

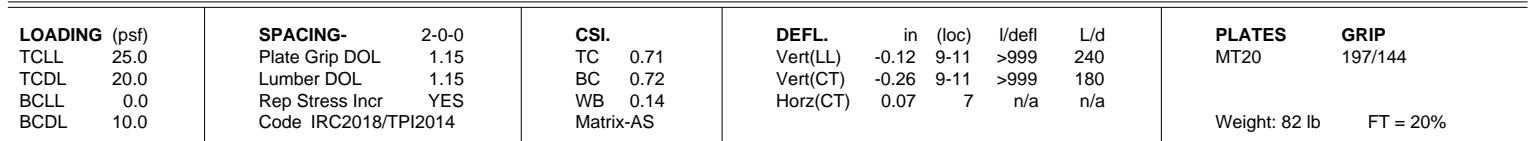
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 4-7=-90, 7-10=-90, 18-21=-20



February 25, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/22/2021</div> </div>
2630316	A01	Hip Girder	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Feb 12 2021 MiTek Industries, Inc.
						ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Tg8yv2eS22F179NJTRi6HjA4prTyhpKhx8YZzhaQh

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 25=-60(B) 26=-60(B) 27=-60(B) 29=-60(B) 30=-60(B) 31=-60(B) 33=-177(B) 34=-144(B) 35=-27(B) 36=-27(B) 37=-27(B) 38=-27(B) 39=-27(B) 40=-27(B)
 41=-144(B) 42=-177(B)



BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-10-15 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.

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

TOP CHORD	2-3=-2463/325, 3-4=-2184/280, 4-5=-2014/287, 5-6=-2183/280, 6-7=-2463/325
BOT CHORD	2-11=-280/2228, 9-11=-173/2014, 7-9=-244/2228
WEBS	4-11=0/310, 5-9=0/310

- 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(2R) 8-4-0 to 12-6-15, Interior(1) 12-6-15 to 14-4-0, Exterior(2R) 14-4-0 to 18-6-9, Interior(1) 18-6-9 to 23-6-8 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) 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 180 lb uplift at joint 2 and 180 lb uplift at joint 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING – verify design parameters and **READ NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC M14-13 161, JF 15/2020 (BY ONE USER).** 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

2630316

Truss

A03

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee Summit, Missouri

Job Reference (optional)

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Q2GikZ3vzfzGRJmQuTABipdttZlxq05o?QFcRzhaQf

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

0-10-8
0-10-8

5-7-12
5-7-12

11-0-0
5-4-4

11-8-0
0-8-0

17-0-4
5-4-4

22-8-0
5-7-12

23-6-8
0-10-8

03/22/2021

Scale = 1:40.4

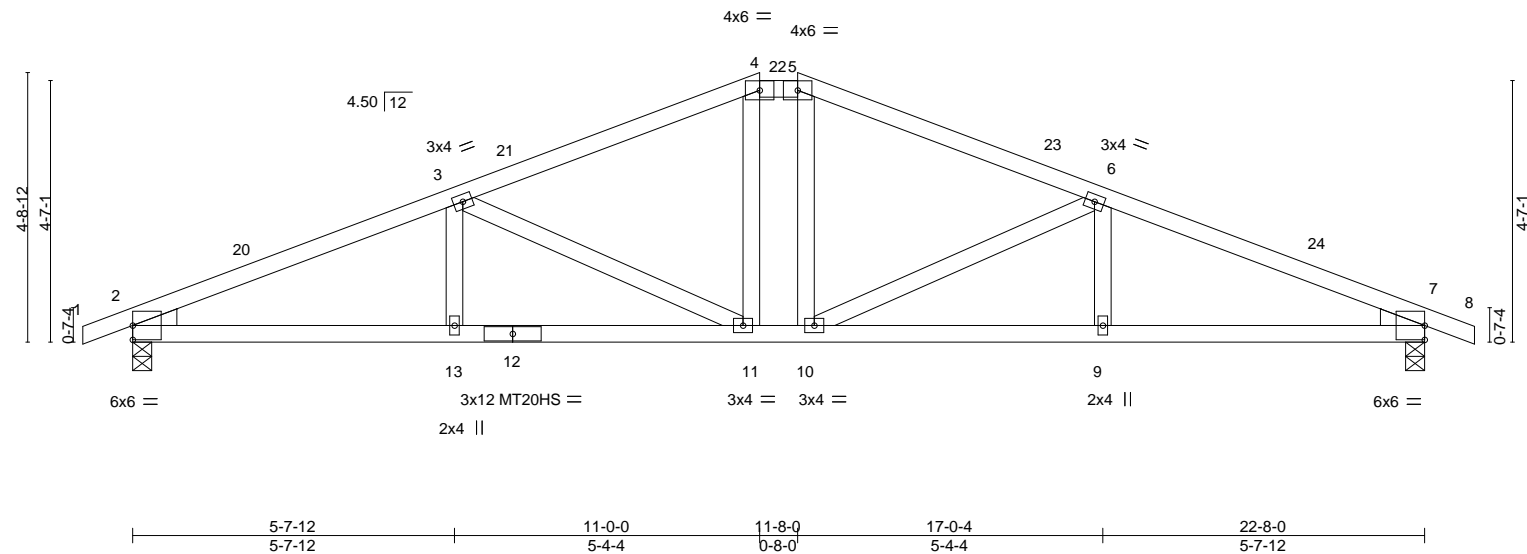
RELEASE FOR

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LEE SUMMIT, MISSOURI



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.10 9-10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.23 9-10	>999	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.07 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 84 lb	FT = 20%

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

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

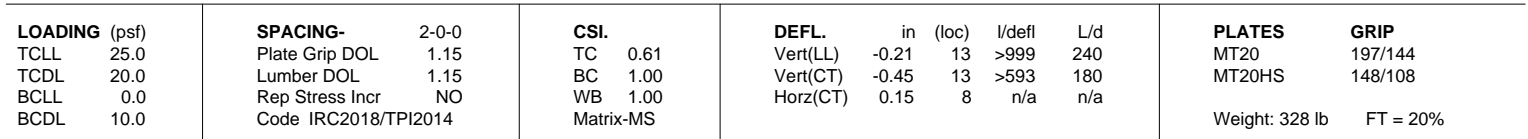
REACTIONS. (size) 2=0-4-0, 7=0-4-0
Max Horz 2=-69(LC 17)
Max Uplift 2=-163(LC 8), 7=-163(LC 9)
Max Grav 2=1325(LC 1), 7=1325(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2453/264, 3-4=-1858/231, 4-5=-1660/234, 5-6=-1858/231, 6-7=-2453/264
BOT CHORD 2-13=-250/2216, 11-13=-250/2216, 10-11=-104/1660, 9-10=-190/2216, 7-9=-190/2216
WEBS 3-11=-679/167, 4-11=-23/333, 5-10=-23/333, 6-10=-679/167

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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 11-0-0, Exterior(2E) 11-0-0 to 11-8-0, Exterior(2R) 11-8-0 to 15-10-15, Interior(1) 15-10-15 to 23-6-8 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2 and 163 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-4-0 oc bracing: 23-25 6-0-0 oc bracing: 6-7
JOINTS	1 Brace at Jt(s): 25, 6, 15, 11, 20, 13, 17

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

TOP CHORD 24-25=-7716/778, 1-23=-15115/1718, 1-2=-14048/1612, 2-3=-11270/1314,
3-4=-11260/1316, 4-5=-15566/1782, 5-7=-15237/1692, 6-8=-2009/190

BOT CHORD 23-25=-16087/1684, 21-23=-1261/107, 20-21=-1261/107, 17-20=-2020/193,
15-17=-477/3825, 13-15=-584/4811, 11-13=-129/1093, 10-11=-1928/214, 7-10=-1861/205,
6-7=-1800/181, 22-24=-162/1372, 18-22=-1720/16087, 16-18=-1352/11961,
12-16=-1302/11364, 9-12=-1504/13140, 8-9=-1728/15597

WEBS 4-15=-373/7491, 4-11=-284/2585, 3-15=-807/7234, 9-10=-1619/231, 15-16=-202/2179,
11-12=-585/100, 2-20=-209/1653, 2-15=-279/364, 18-20=-807/161, 1-20=-832/102,
5-11=-79/533, 5-10=-832/186, 12-13=-204/1812, 13-16=-2361/319, 16-17=-2990/358,
17-18=-373/3403, 7-8=-14923/1672, 9-11=-305/3139, 18-23=-1072/48, 22-23=-6276/718,
22-25=-1689/15908, 1-21=-146/1236

- 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, 2x8 - 2 rows staggered at 0-9-0 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, Except member 7-8 2x4 - 1 row at 0-4-0 oc, 2x6 - 2 rows staggered 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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

February 25, 2021

Continued on page 2

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



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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/22/2021</div>
2630316	A04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	J44967113
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc.						Page 1
ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-qdxrza6nGagY8u1L611tpKR625X4825YUyevDmzhaQc						

NOTES-

- Bearing at joint(s) 24, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 801 lb uplift at joint 24 and 827 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-7-4 from the left end to 16-7-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1155 lb down and 115 lb up at 0-7-4, 1128 lb down and 138 lb up at 2-10-7, and 1113 lb down and 155 lb up at 18-7-4, and 1782 lb down and 266 lb up at 20-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 3-23=-90, 3-7=-90, 23-25=-160, 6-7=-160, 22-24=-160, 9-22=-20, 9-33=-110, 8-33=-160
 - Concentrated Loads (lb)
 - Vert: 11=-1095(B) 20=-1095(B) 5=-1063(B) 17=-1095(B) 7=-1778(B) 23=-2265(B) 21=-1095(B) 26=-1095(B) 27=-1095(B) 28=-1095(B)

Job: 2630316

Truss: B01

Truss Type: HIP GIRDER

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

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LEE'S SUMMIT, MISSOURI

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14962114

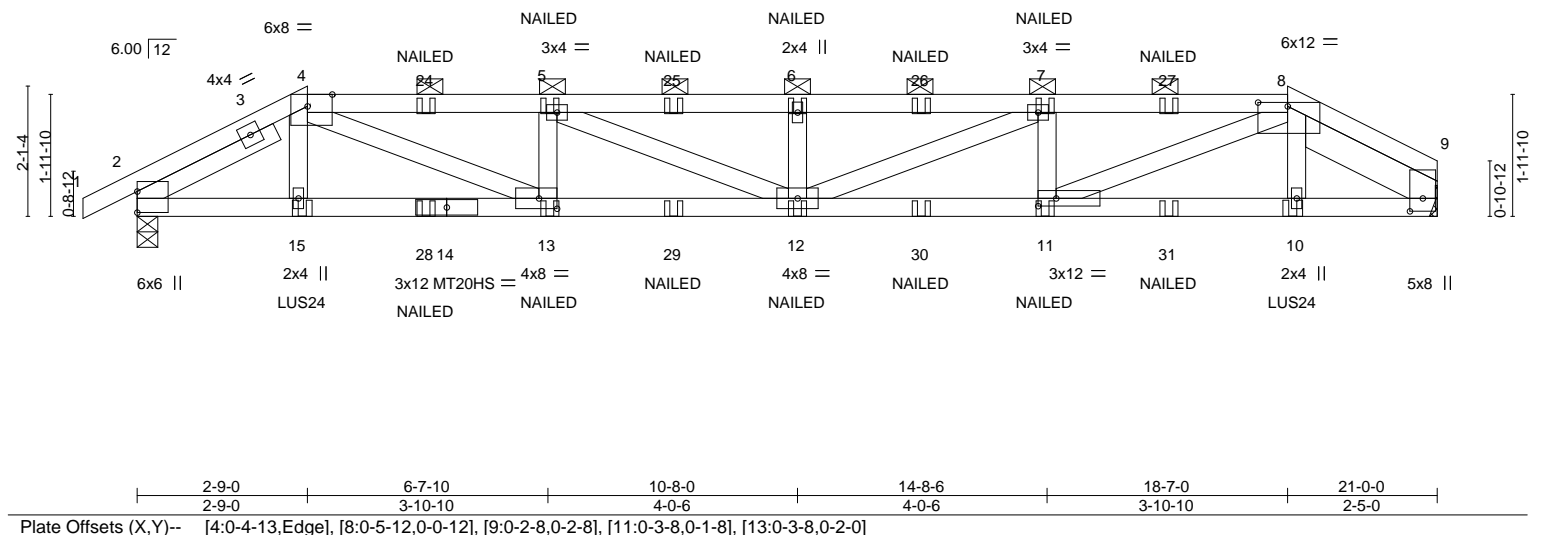
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03/22/2021

0-10-8 2-9-0 6-7-10 10-8-0 14-8-6 18-7-0 21-0-0

0-10-8 2-9-0 3-10-10 4-0-6 4-0-6 3-10-10 2-5-0

Scale = 1:37.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.25	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.56	MT20HS	148/108		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.07				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 84 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-8: 2x4 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 2-7-4 oc purlins, except 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.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 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
WEBS	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-**
- 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 251 lb uplift at joint 9 and 267 lb uplift at joint 2.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) 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 guidelines.
 - 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



February 25,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
2630316	B01	HIP GIRDER	1	1	Job Reference (optional)	J44967114

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd, Chesterfield, MO 63017
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-lpVDAw6P1uoOl2cXfkY6LYzEJVt6taxhjcOSICzhaQb

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)

 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

2630316

Truss

B02

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-m03bNG71oCwFNCBjDS3LuWS1uE5c5yrxG7?lfzhaQa

14962115

0-8-12

3-7-4

3-5-10

5-9-0

10-8-0

4-11-0

15-7-0

4-11-0

21-0-0

5-5-0

0-10-12

3-5-10

Scale = 1:36.1

RELEASE FOR

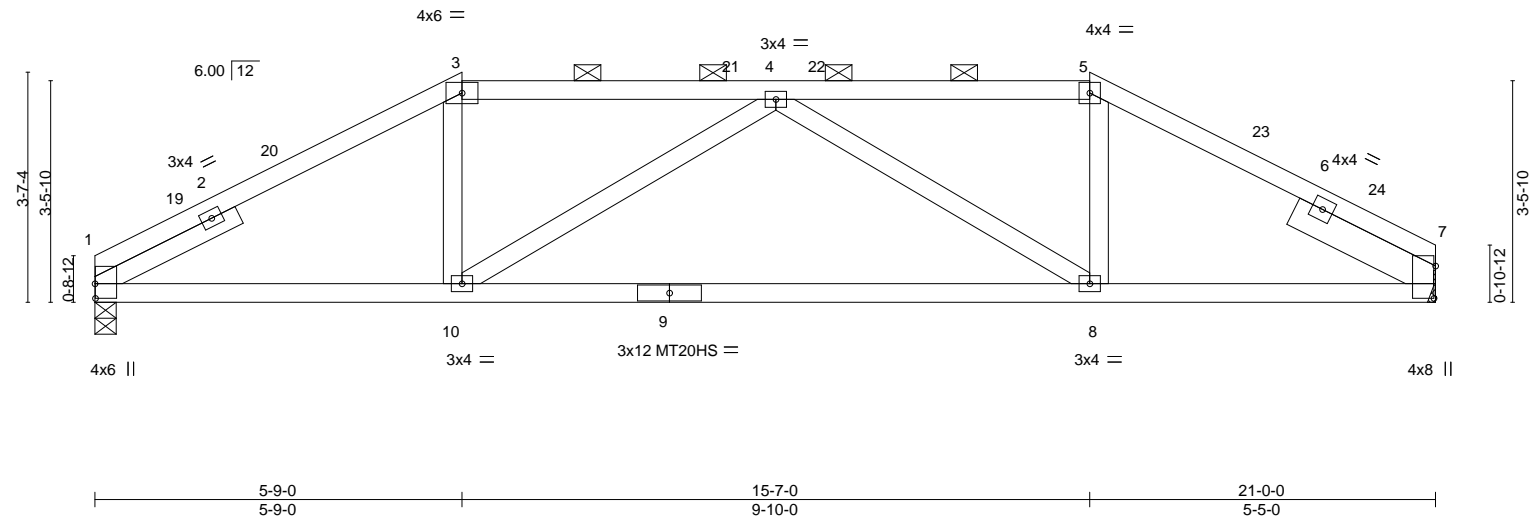
CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021



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 0.58	Vert(LL)	-0.27 8-10	>949	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.60 8-10	>423	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.07 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (4-4-7 max.): 3-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 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.
TOP CHORD	1-3=-1810/218, 3-4=-1545/224, 4-5=-1468/216, 5-7=-1737/213
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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-9-0, 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.
 - 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 126 lb uplift at joint 1 and 124 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) 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 25, 2021

Job: 2630316

Truss: B03

Truss Type: Hip

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, MO 64086

7-3-0
7-3-0

14-1-0
6-10-0

21-0-0
6-11-0

Scale = 1:36.0

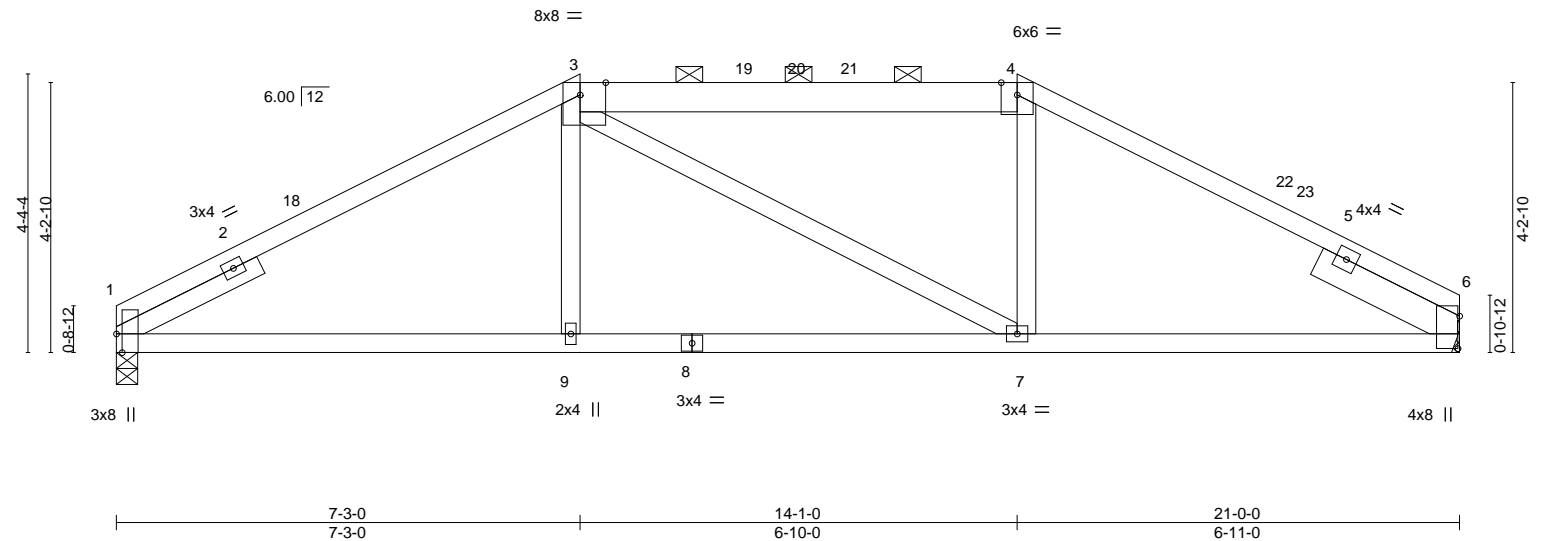


Plate Offsets (X,Y)--		[1:0-3-8,Edge], [3:0-4-13,Edge], [6:0-6-1,0-0-5]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.07	7-9	>999	240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.16	7-9	>999	180			
BCLL 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%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-4: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-11 max.): 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0		

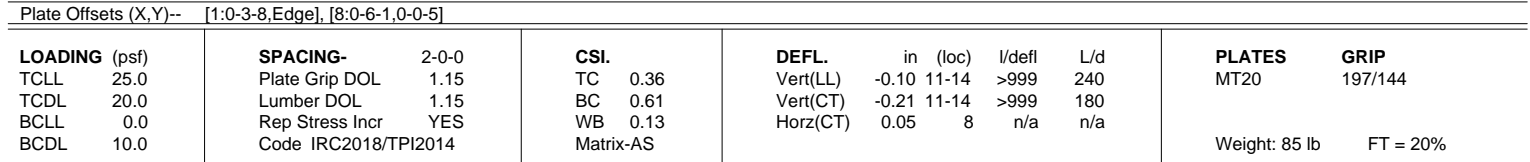
REACTIONS.	
(size)	1=0-4-0, 6=Mechanical
Max Horz	1=60(LC 12)
Max Uplift	1=-124(LC 12), 6=-122(LC 13)
Max Grav	1=1155(LC 1), 6=1155(LC 1)

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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 1 and 122 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021



BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-1 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.

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

TOP CHORD	1-3=-1765/264, 3-4=-1514/231, 4-5=-1281/239, 5-6=-1470/228, 6-8=-1677/253
BOT CHORD	1-11=-210/1537, 9-11=-99/1263, 8-9=-175/1436
WEBS	3-11=-310/136, 4-11=-15/300, 5-9=-16/260

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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 16-11-8, Interior(1) 16-11-8 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 122 lb uplift at joint 1 and 119 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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 25, 2021



WARNING – verify design parameters READ NOTES ON THIS AND INCLUDED WITH THE KEY EXERCISES! SEE MIF-743-167, 3/15/2020 (BY ONE 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

2630316

Truss

B05

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967118

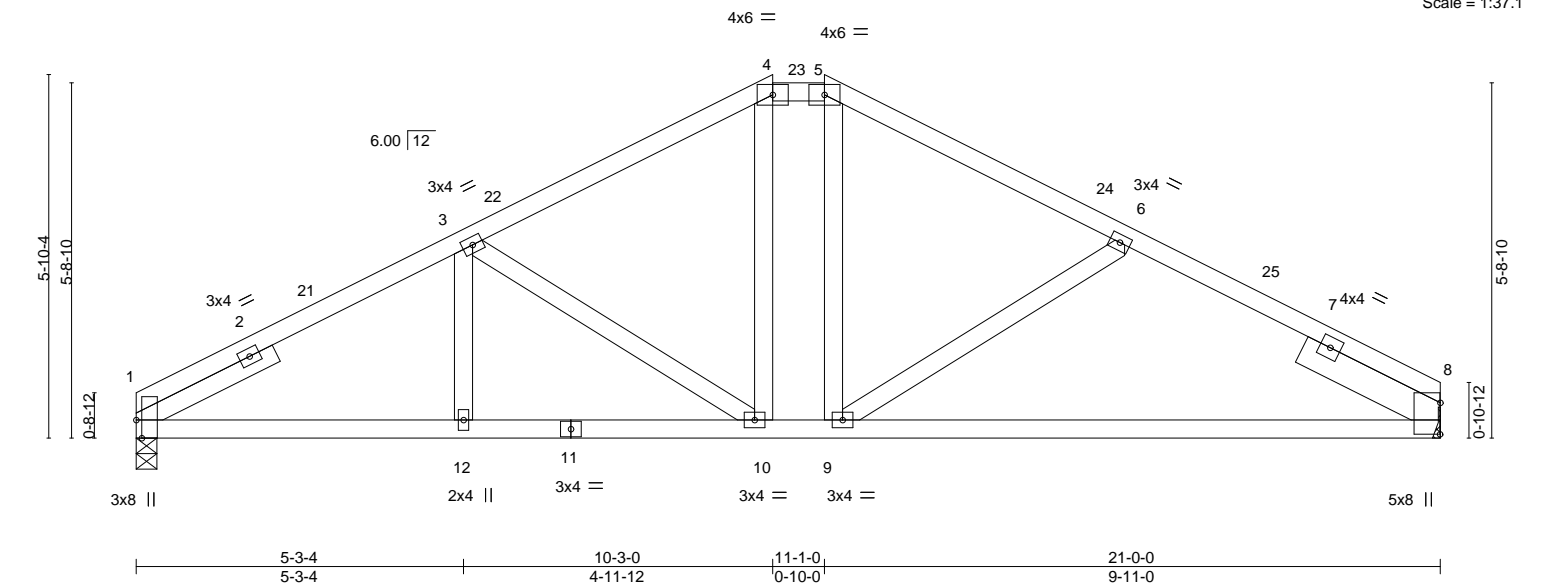
Job Reference (optional)

LEE'S SUMMIT, MISSOURI

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

03/22/2021

Scale = 1:37.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.14 9-19 >999 240	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.29 9-19 >866 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 86 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (5-1-10 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 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)

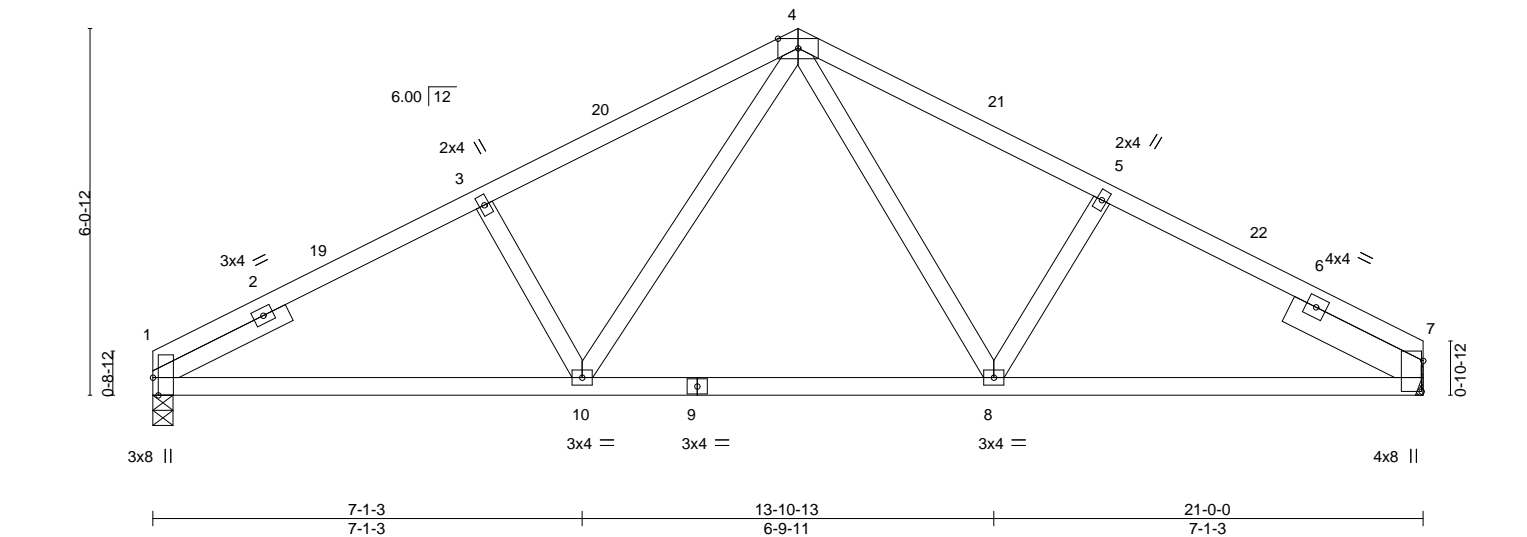
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1772/217, 3-4=-1373/212, 4-5=-1140/209, 5-6=-1371/206, 6-8=-1667/230
BOT CHORD	1-12=-198/1532, 10-12=-198/1532, 9-10=-59/1140, 8-9=-145/1430
WEBS	3-10=-515/162, 4-10=-71/277, 5-9=0/413, 6-9=-394/160

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to bearing connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 1 and 117 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR
2630316	B06	Common	1	1		CONSTRUCTION
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, MO	AS NOTED ON PLANS REVIEW
ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-BbIk0l9w57lqEgwluac2WO80l6LMpWsHeEMguzzhaQX					Job Reference (optional)	DEVELOPMENT SERVICES
5-5-12 10-8-0 15-8-4 21-0-0					5-5-12 5-2-4 5-0-4 5-3-12	LEE'S SUMMIT, MISSOURI
						03/22/2021
						Scale = 1:38.1



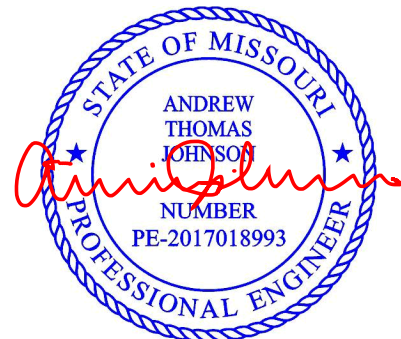
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	197/144
TCDL 20.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.07 8-10 >999 240		
BCLL 0.0	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.17 8-10 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 81 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 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)

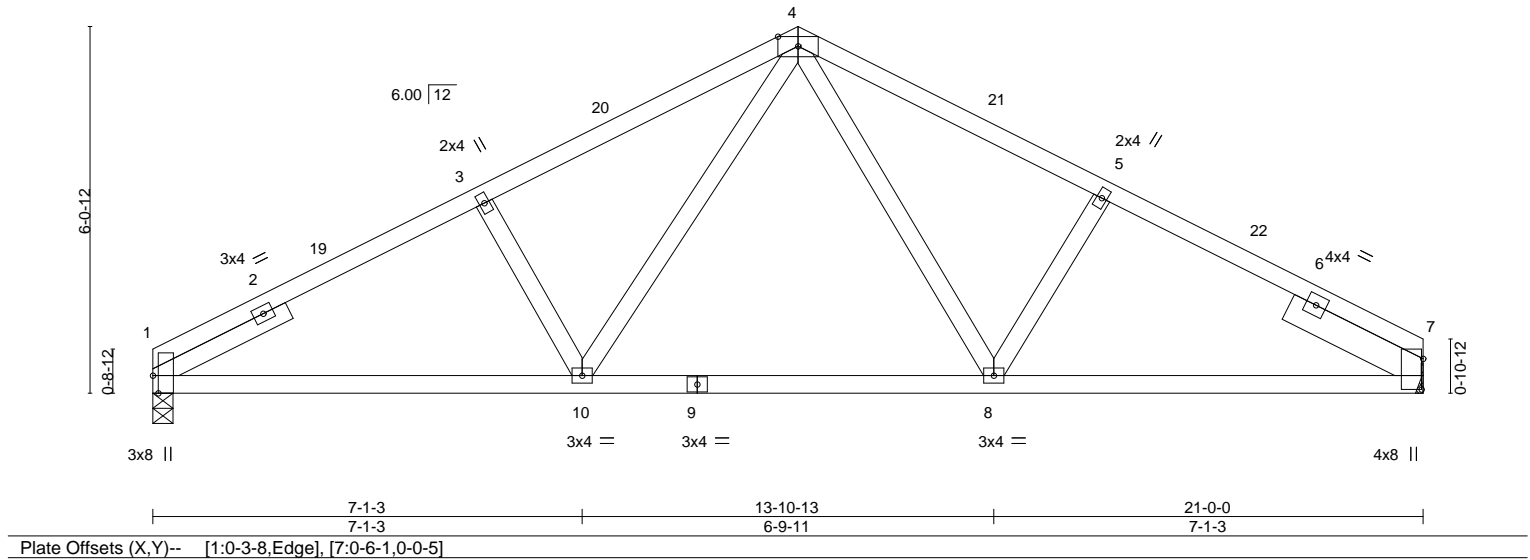
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-1764/283, 3-4=-1615/307, 4-5=-1533/294, 5-7=-1685/274
BOT CHORD	1-10=-201/1525, 8-10=-82/1074, 7-8=-178/1438
WEBS	3-10=-392/166, 4-10=-108/563, 4-8=-92/478, 5-8=-340/157

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-8-0, 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1 and 115 lb uplift at joint 7.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 25, 2021

Job 2630316	Truss B07	Truss Type Common	Qty 4	Ply 1	2630316/woodside ridge 40/mo
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14967120		
ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-fnl6DeAYsQQhspVUSH8H2bhB2WhbYz6Qsu5DRQzhaQW			Job Reference (optional) LEE'S SUMMIT, MISSOURI		
5-5-12 10-8-0 15-8-4 21-0-0			5-5-12 5-2-4 5-0-4 5-3-12		
			03/22/2021		
			Scale = 1:38.1		



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.07	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.17				
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.05				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 81 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 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)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1764/283, 3-4=-1615/307, 4-5=-1533/294, 5-7=-1685/274
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1 and 115 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 25, 2021

Job: 2630316

Truss: B08

Truss Type: Hip

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. Feb 12 2021

0-10-8
0-10-8

4-3-0
4-3-0

10-8-0
6-5-0

17-1-0
6-5-0

21-0-0
3-11-0

Scale = 1:37.2

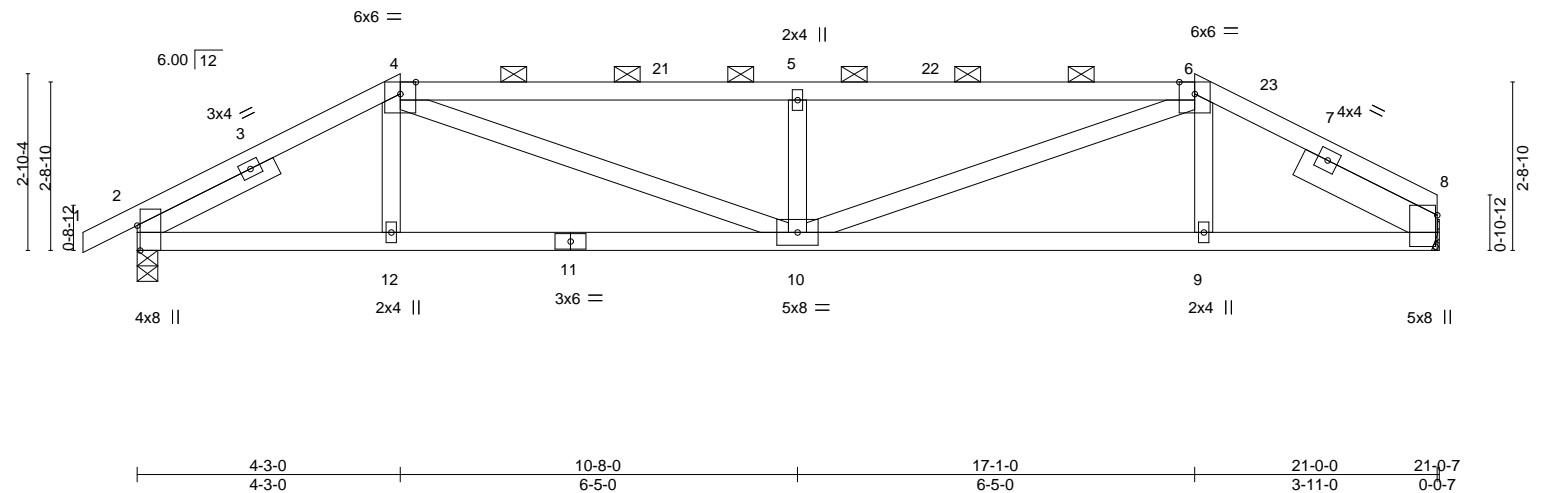


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [8:0-6-1,0-0-5]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.11	10	>999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.27	9-10	>940		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06	8	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS						Weight: 80 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (2-2-0 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0		

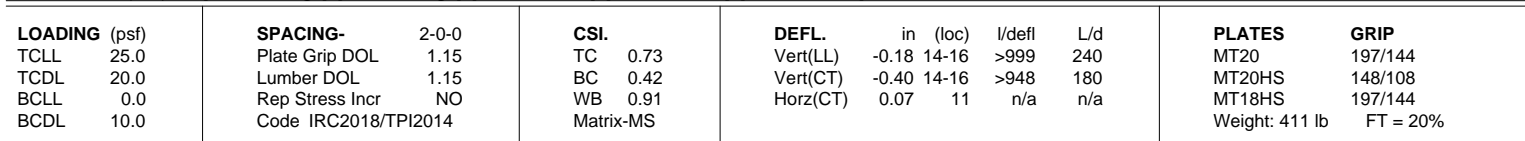
REACTIONS.	
(size)	8=Mechanical, 2=0-4-0
Max Horz	2=49(LC 12)
Max Uplift	8=126(LC 13), 2=145(LC 12)
Max Grav	8=1153(LC 1), 2=1235(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1834/221, 4-5=-2679/350, 5-6=-2679/350, 6-8=-1739/226
BOT CHORD	2-12=-181/1609, 10-12=-184/1607, 9-10=-157/1510, 8-9=-154/1511
WEBS	4-10=-195/1215, 5-10=-711/187, 6-10=-204/1310

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 8 and 145 lb uplift at joint 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25,2021



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

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

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.

TOP CHORD 1-2=-5250/818, 2-3=-7105/1119, 3-4=-9337/1410, 4-5=-10507/1514, 5-7=-10507/1514,
7-8=-10150/1443, 8-9=-8657/1246, 9-10=-7111/1009, 1-20=-6300/982, 10-11=-6366/913

BOT CHORD 18-19=-7344/4864, 17-18=-995/6690, 16-17=-1342/9334, 14-16=-1375/10146,
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

- 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 1065 lb uplift at joint 20 and 983 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and 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 6-7-4 to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 30-7-4 to connect truss(es) to back face of bottom chord.



February 25, 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021</div>
2630316	C01	HIP GIRDER	1	2	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Feb 12 2021 MiTek Industries, Inc. 14967122
NOTES- 13) Fill all nail holes where hanger is in contact with lumber.						ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-3M_EhfCQ9LpGjHD37Qh_gElcujkGI7ktYsKtIzhaQT
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

2630316

Truss

C02

Truss Type

Roof Special

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967123

03/22/2021

1-10-0

6-6-5

11-2-11

14-2-0

18-5-5

20-8-11

24-8-11

32-0-0

1-10-0

4-8-5

4-8-5

2-11-5

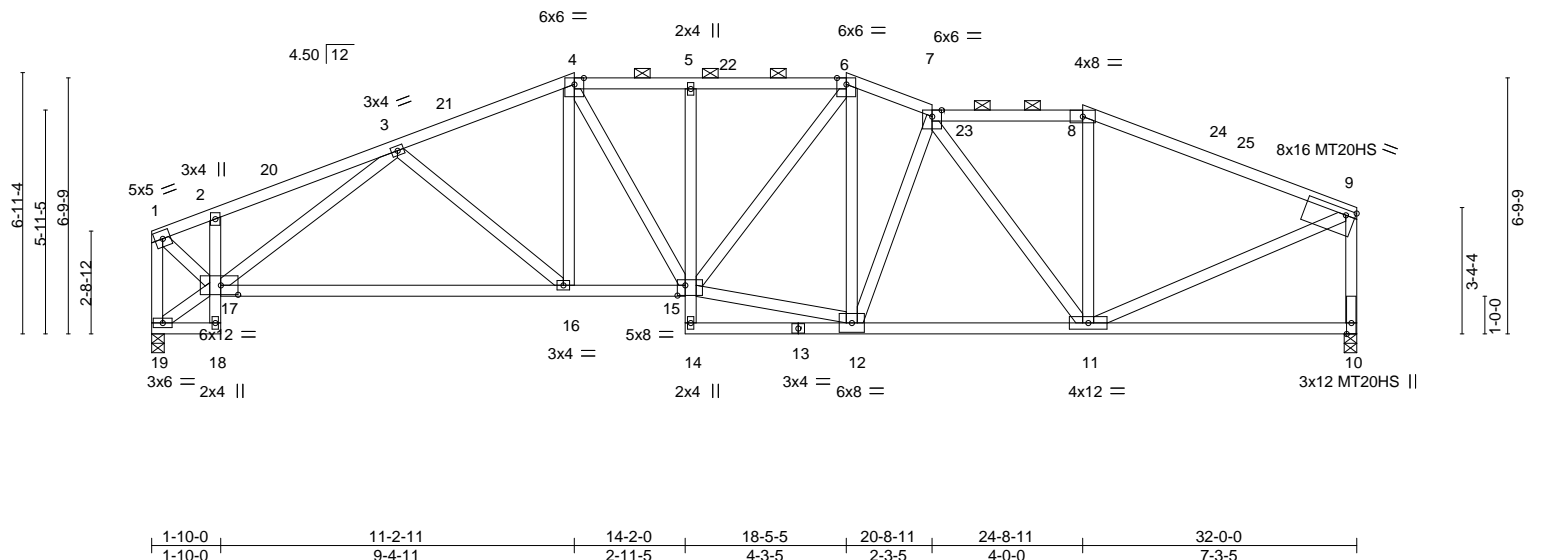
4-3-5

2-3-5

4-0-0

7-3-5

Scale = 1:61.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.19 16-17	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.42 16-17	>901	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.12 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (3-4-14 max.): 4-6, 7-8.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.

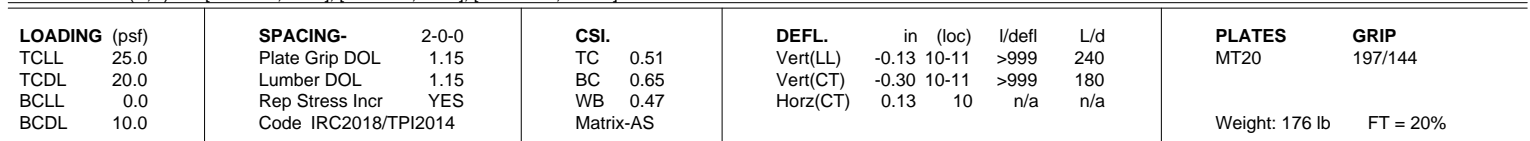
REACTIONS. (size) 10=0-4-0, 19=0-4-0
Max Horz 19=78(LC 9)
Max Uplift 10=-219(LC 9), 19=-198(LC 8)
Max Grav 10=1744(LC 1), 19=1744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1367/217, 2-3=-1526/262, 3-4=-2523/364, 4-5=-2487/397, 5-6=-2484/398,
6-7=-2255/348, 7-8=-1723/276, 8-9=-1946/256, 1-19=-1719/235, 9-10=-1672/243
BOT CHORD 2-17=-347/116, 16-17=-372/2313, 15-16=-310/2295, 5-15=-419/106, 11-12=-305/2202
WEBS 4-16=-13/311, 4-15=-112/511, 12-15=-288/1983, 6-15=-103/723, 7-12=-365/122,
7-11=-816/119, 9-11=-212/1779, 1-17=-219/1747, 3-17=-1224/190

- 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 11-2-11, Exterior(2R) 11-2-11 to 14-3-12, Interior(1) 14-3-12 to 18-5-5, Exterior(2E) 18-5-5 to 20-8-11, Interior(1) 20-8-11 to 24-8-11, Exterior(2R) 24-8-11 to 27-11-1, Interior(1) 27-11-1 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 219 lb uplift at joint 10 and 198 lb uplift at joint 19.
 - 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 25,2021



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

TOP CHORD
1-2=-1444/238, 2-3=-2666/341, 3-4=-2338/344, 4-5=-2093/351, 5-6=-2276/352,
6-7=-2232/322, 7-8=-2301/296, 1-22=-1688/242

BOT CHORD
2-20=-1110/205, 19-20=-305/1470, 18-19=-334/2409, 17-18=-255/2078, 16-17=-220/1804,
14-15=-35/272, 12-14=-38/293, 11-12=-294/2329, 10-11=-213/1426

WEBS
2-19=-117/992, 5-16=-103/570, 7-11=-927/160, 8-11=-120/1382, 1-20=-238/1790,
8-10=-1986/278, 4-18=-39/394, 3-18=-468/146, 7-12=-374/75, 6-12=-258/57,
12-16=-239/1909

- 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 19-2-13, Interior(1) 19-2-13 to 27-4-11, Exterior(2R) 27-4-11 to 30-7-1, Interior(1) 30-7-1 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 203 lb uplift at joint 22.
- 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 25, 2021

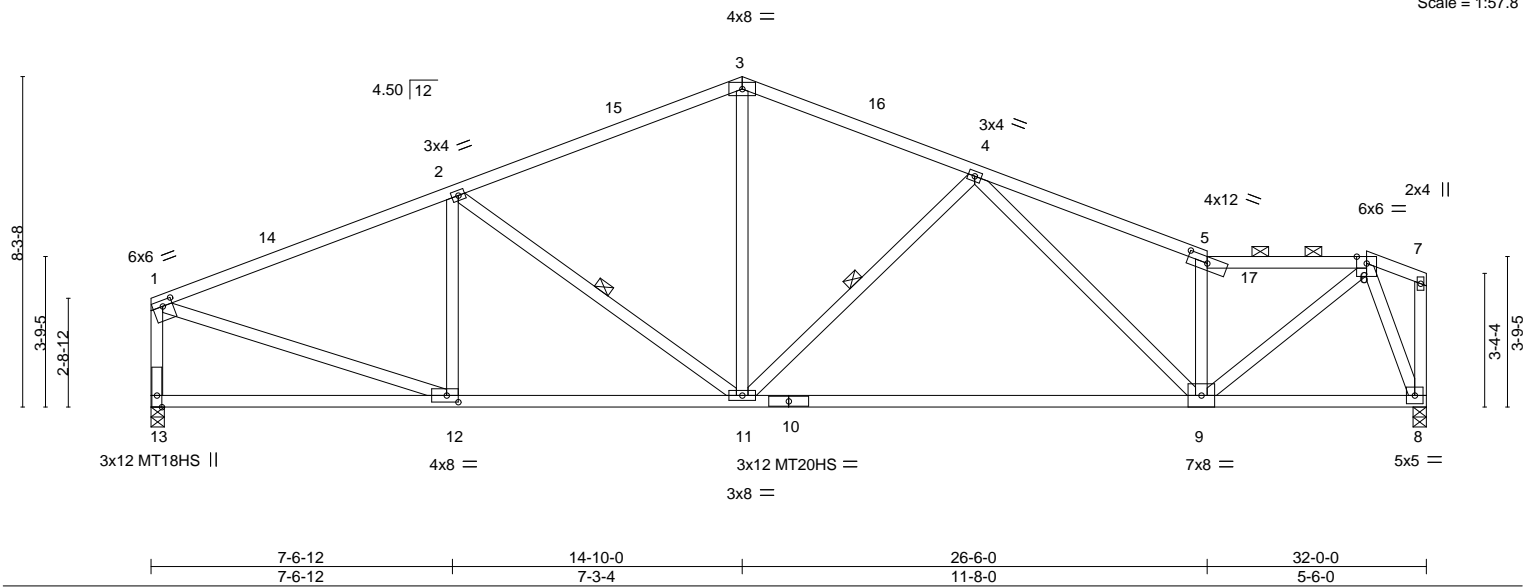


Plate Offsets (X,Y)--		[1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [12:0-3-8,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74
TCDL 20.0	Lumber DOL	1.15	BC 0.78
BCLL 0.0	Rep Stress Incr	YES	WB 0.54
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)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

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-11 max.): 5-6.
BOT CHORD	2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-11, 4-11
REACTIONS.			
(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)			

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
 - 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 174 lb uplift at joint 13 and 197 lb uplift at joint 8.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) 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 25,2021

Job

2630316

Truss

C05

Truss Type

ROOF SPECIAL

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967126

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

03/22/2021

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-y7Dlh1GxCajhBuXrMFmwq3TGMKzfh23STUI5BWzhaQP

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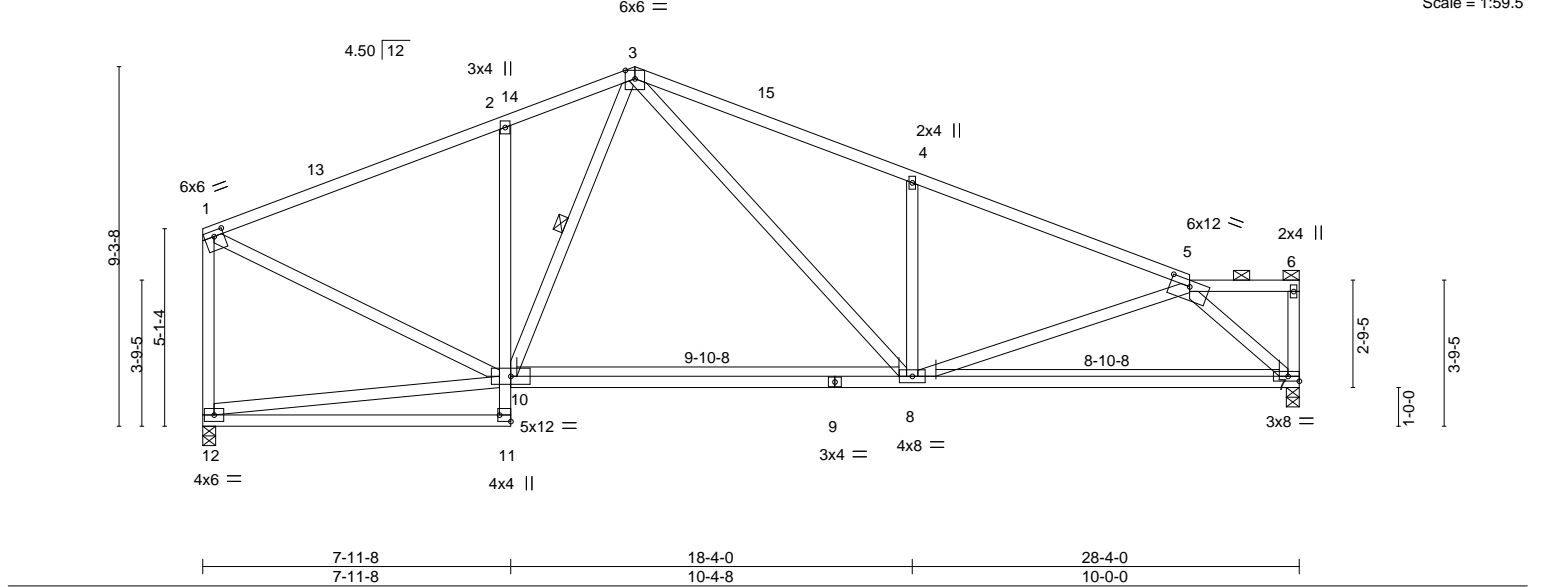


Plate Offsets (X, Y)--		[1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [11:Edge,0-3-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.24 8-10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.54 8-10	>625	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.06 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 140 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-10
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.	
TOP CHORD	1-2=-1559/233, 2-3=-1493/292, 3-4=-2249/358, 4-5=-2228/247, 1-12=-1478/191
BOT CHORD	2-10=-589/200, 8-10=-150/1299, 7-8=-220/1514
WEBS	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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 7 and 155 lb uplift at joint 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25,2021

Job

2630316

Truss

C06

Truss Type

ROOF SPECIAL

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. See 1343431500 Page 1

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. See 1343431500 Page 1

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-uWLV6jHBk6ZPRChDUgoOvUYc_8ho9yylxonBFOzhaQN

03/22/2021

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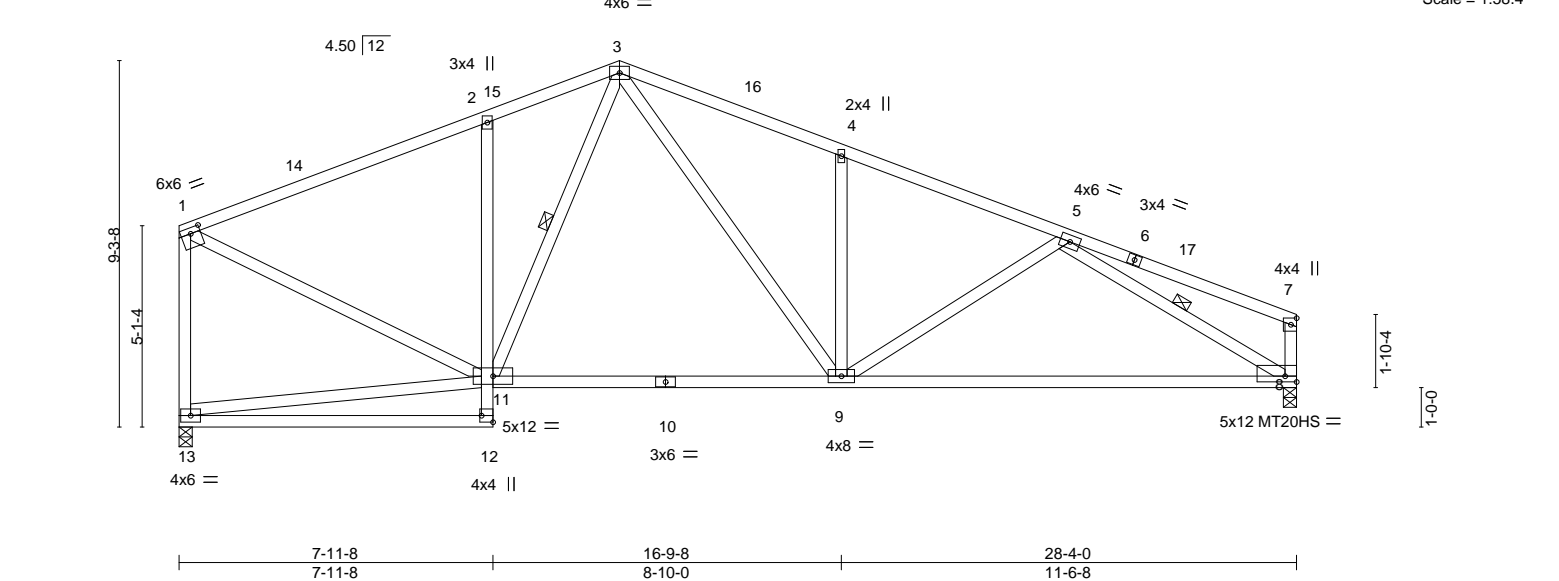


Plate Offsets (X, Y)--		[1:0-3-0,0-1-12], [8:Edge,0-1-12], [12:Edge,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.88
TCDL 20.0	Lumber DOL	1.15	BC 0.79
BCLL 0.0	Rep Stress Incr	YES	WB 0.48
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.33 8-9 >999 240
			Vert(CT) -0.69 8-9 >487 180
			Horz(CT) 0.07 8 n/a n/a
			PLATES GRIP
			MT20 197/144
			MT20HS 148/108
			Weight: 142 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2 "Except"	BOT CHORD Rigid ceiling directly applied.
8-10: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 3-11, 5-8
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)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1553/236, 2-3=-1494/297, 3-4=-2077/329, 4-5=-2067/258, 5-7=-308/51, 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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 13 and 175 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 25, 2021

Job

2630316

Truss

C07

Truss Type

HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967128

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967128

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-uWLW6jHBk6ZPRChDUgoOvUYcV8l39yRlxonBFOzhaQN

03/22/2021

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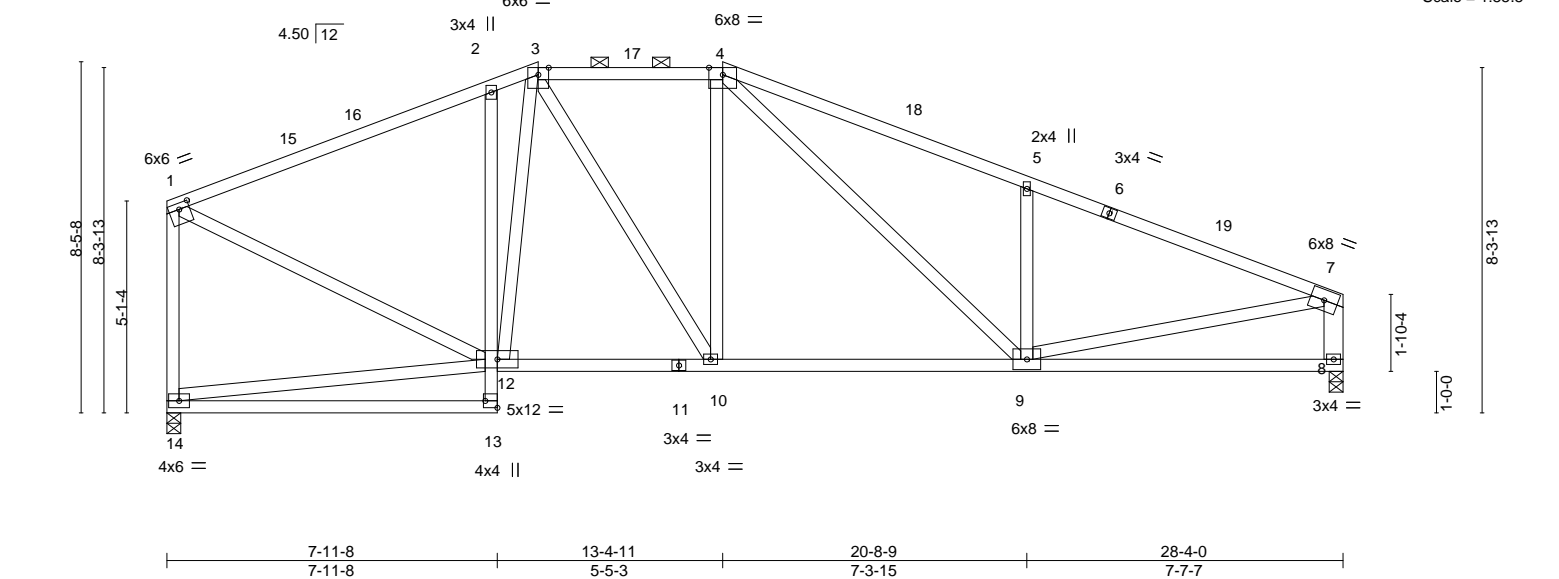


Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [13:Edge,0-3-8]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.11	13-14	>999				240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.22	13-14	>999				180		
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%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2	BOT CHORD	2-0-0 oc purlins (4-5-0 max.): 3-4.
WEBS	2x4 SPF No.2 *Except*		Rigid ceiling directly applied.
	7-8: 2x6 SPF No.2		

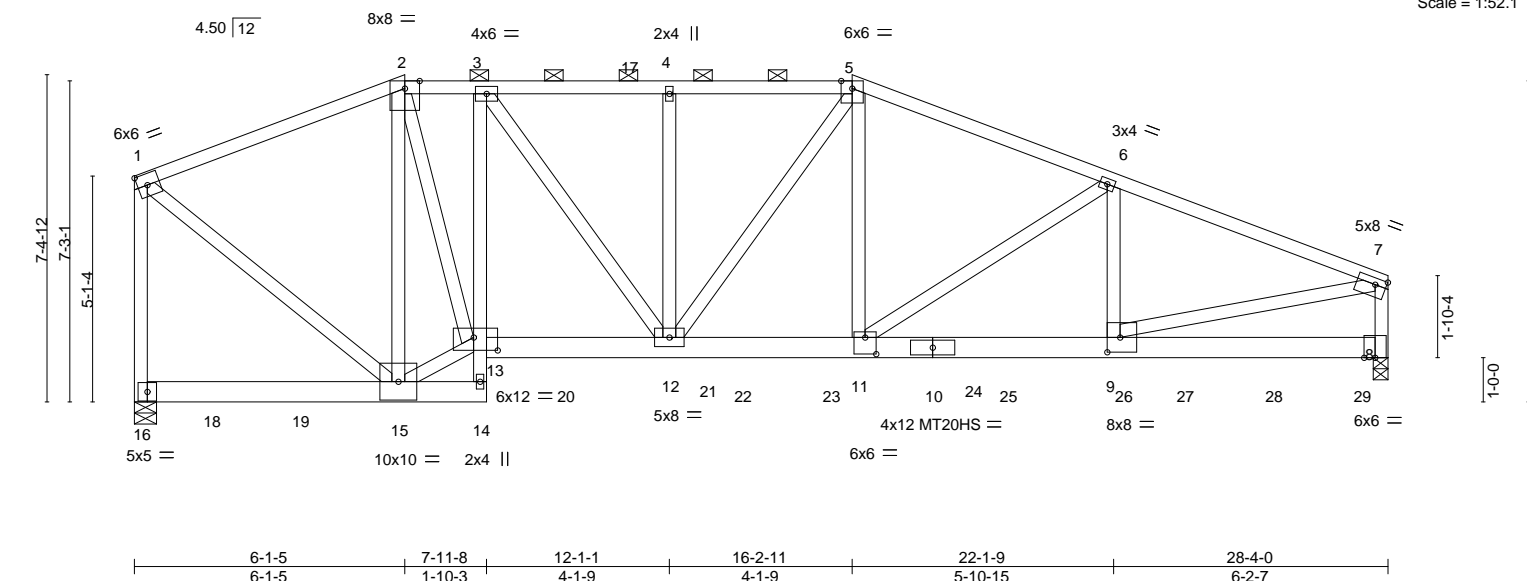
REACTIONS.	
(size)	14=0-4-0, 8=0-4-0
Max Horz	14=-141(LC 10)
Max Uplift	14=-176(LC 8), 8=-180(LC 9)
Max Grav	14=1538(LC 1), 8=1538(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1543/241, 2-3=-1488/293, 3-4=-1548/275, 4-5=-2263/382, 5-7=-2270/282, 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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 14 and 180 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25,2021



Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021</div>
2630316	C08	HIP GIRDER	1	2	Job Reference (optional)	J44967129
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017
NOTES-						ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-quTGXOJS Gpp7gWrcb5qs?ve_6xRCdkq2O6GIKHzaQL
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 105 lb up at 23-8-12, and 652 lb down and 111 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

2630316

Truss

D01

Truss Type

HALF HIP GIRDER

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967130

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-I51ekkU416x_IIfPo9pL5X7ABILkUMJ6Bdm7ssjzhaQK

12-0-0
4-9-4

RELEASE FOR CONSTRUCTION

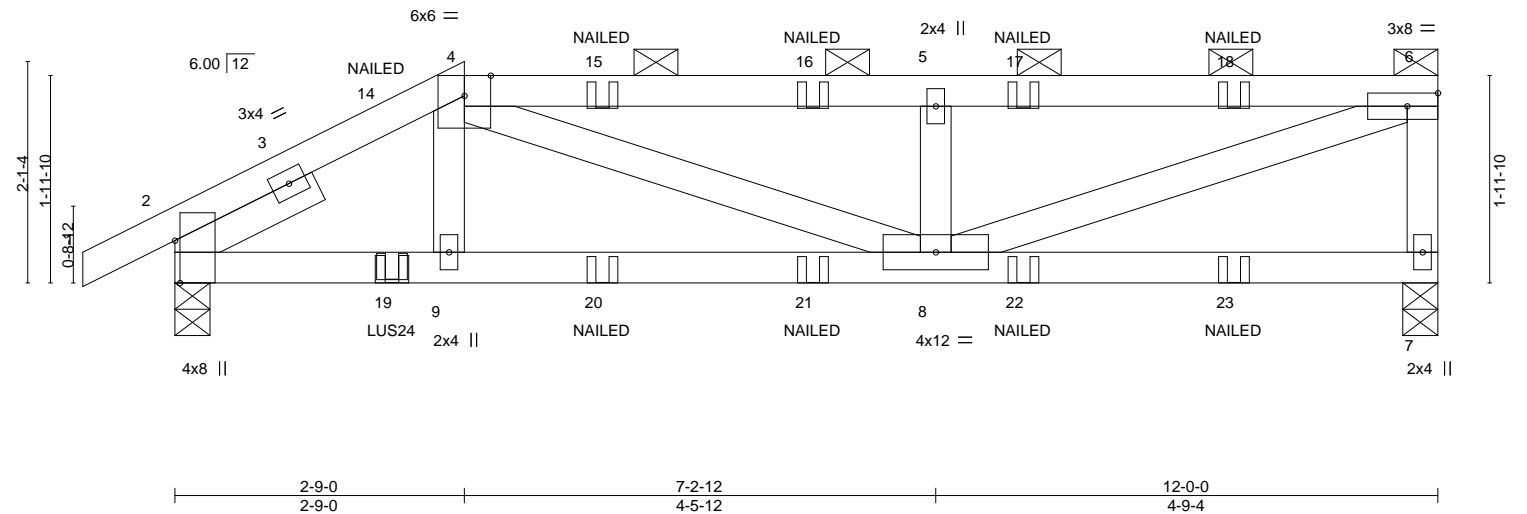
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

Scale = 1:21.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.12				
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 46 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 - t 1-6-0		

REACTIONS.	
(size)	7=0-4-0, 2=0-4-0
Max Horz	2=65(LC 28)
Max Uplift	7=-147(LC 5), 2=-197(LC 8)
Max Grav	7=937(LC 1), 2=1153(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1578/277, 4-5=-1842/294, 5-6=-1839/292, 6-7=-858/166
BOT CHORD	2-9=-278/1369, 8-9=-278/1351
WEBS	4-8=-56/544, 5-8=-631/186, 6-8=-302/1861

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 7 and 197 lb uplift at joint 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
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=-63(B) 15=-57(B) 16=-57(B) 17=-57(B) 18=-57(B) 19=-254(B) 20=-41(B) 21=-41(B) 22=-41(B) 23=-41(B)	



February 25, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI J44962131
2630316	D02	HALF HIP	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.430 s Feb 12 2021 MiTek Industries, Inc.		Lee's Summit, Missouri
-0-10-8		4-0-0		7-10-4		12-0-0
0-10-8		4-0-0		3-10-4		4-1-12
						03/22/2021
						Scale = 1:21.9

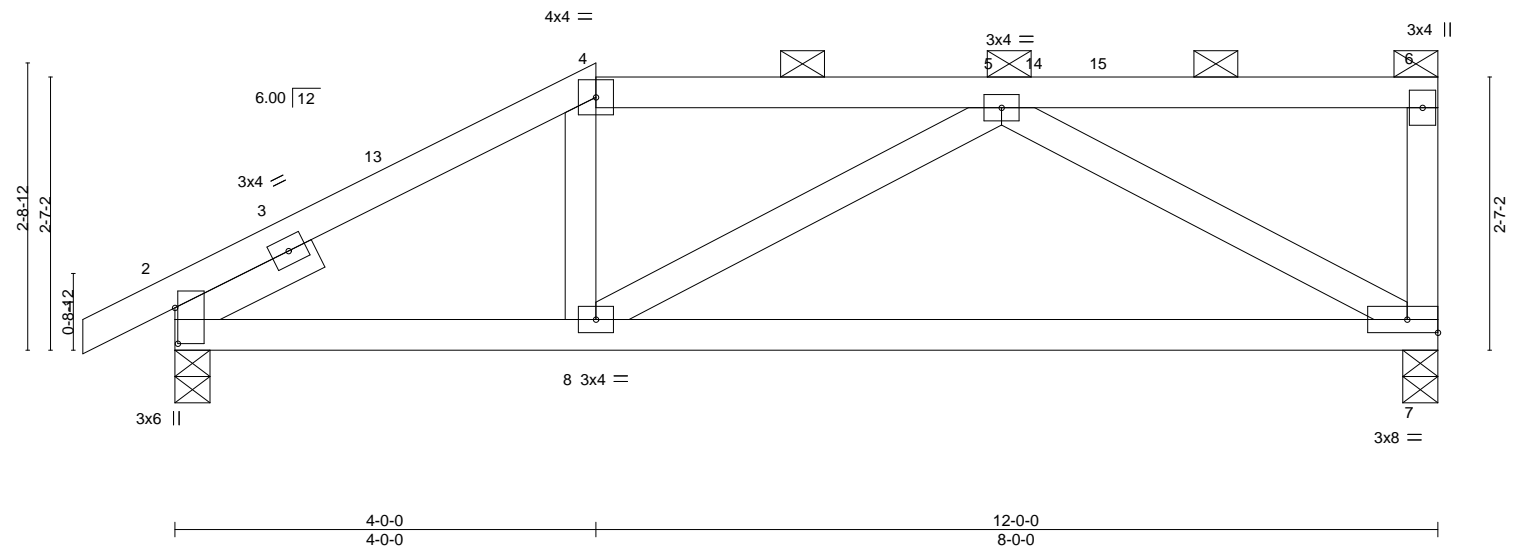


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]							
		4-0-0		12-0-0					
		4-0-0		8-0-0					
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	in (loc)	l/defl	MT20	GRIP
TCDL	20.0	Lumber DOL	1.15	BC	0.46	Vert(LL)	-0.10 7-8 >999		197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Vert(CT)	-0.22 7-8 >651		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.01 7 n/a n/a		
								Weight: 46 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 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.
TOP CHORD	2-4=-922/181, 4-5=-769/188	
BOT CHORD	2-8=-205/774, 7-8=-212/766	
WEBS	5-7=-810/221	

- 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 4-0-0, 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 68 lb uplift at joint 2 and 95 lb uplift at joint 7.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25,2021

Job

2630316

Truss

D03

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967132

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967132

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03/22/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/22/2021

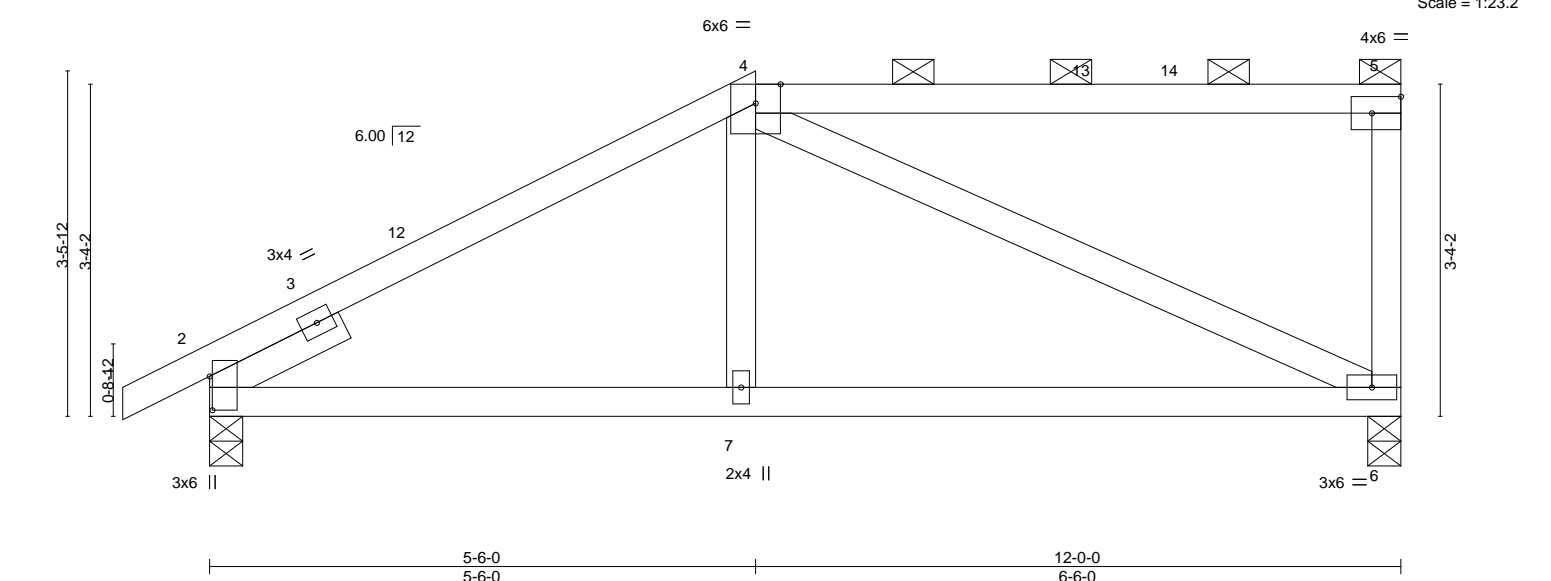


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5], [5:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65
TCDL 20.0	Lumber DOL	1.15	BC 0.33
BCLL 0.0	Rep Stress Incr	YES	WB 0.60
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.05 6-7 >999 240
			Vert(CT) -0.09 6-7 >999 180
			Horz(CT) 0.01 6 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 45 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 -t 1-6-0	

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.
TOP CHORD 2-4=-851/177, 5-6=-292/97
BOT CHORD 2-7=-232/701, 6-7=-234/695
WEBS 4-6=-680/210

- 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 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 79 lb uplift at joint 2 and 92 lb uplift at joint 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) 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 25,2021

Job

2630316

Truss

D04

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967133

Job Reference (optional)

2630316/woodside ridge 40/mo

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-jginNmMyK1JZ978Nqxxv9loilZpMZgleJkEWT2zhaQH

03/22/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

-0-10-8

0-10-8

7-0-0

7-0-0

11-7-8

4-7-8

12-3-8

0-8-0

6x6 ==

3x4 ||

4-2-12

4-1-2

0-8-12

2

3x4 =

3

15

6.00 || 12

4

16

17

3-1-2

4-1-2

1-0-0

8

2x4 =

10

2x4 ||

9

4x4 ||

3x6 =

5x8 ||

6

7

3x6 ||

7-0-0

7-0-0

11-7-8

4-7-8

12-3-8

0-8-0

Plate Offsets (X,Y)--

[2:0-3-9,0-0-1], [7:0-4-0,0-1-8], [9:Edge,0-3-8]

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 0.54

BC 0.46

WB 0.46

Matrix-AS

DEFL.

in (loc)

l/defl

L/d

Vert(LL) -0.06 10-13 >999 240

Vert(CT) -0.16 10-13 >936 180

Horz(CT) 0.06 6 n/a n/a

PLATES

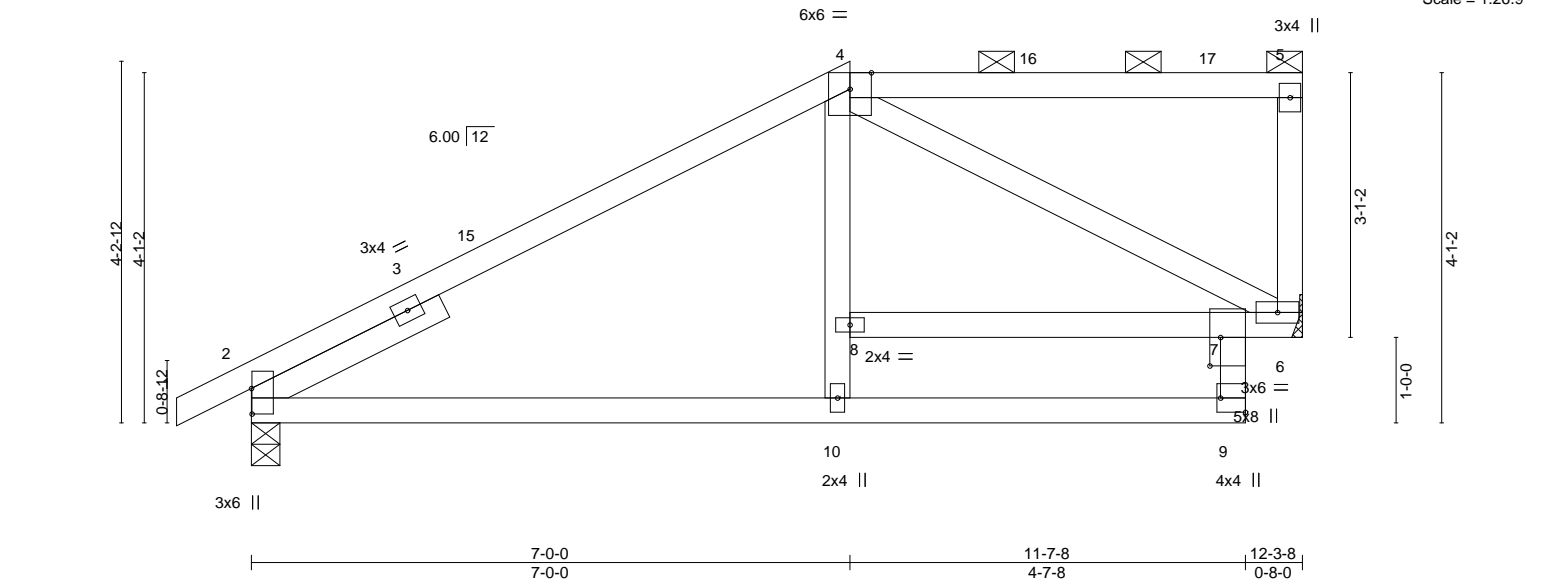
MT20

Weight: 53 lb

GRIP

197/144

FT = 20%



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	2-0-0	Plate Grip DOL 1.15	TC	0.54	in (loc)	l/defl	L/d	MT20	197/144	
TCDL	20.0	Lumber DOL 1.15		BC	0.46	Vert(LL)	-0.06 10-13 >999 240				
BCLL	0.0	Rep Stress Incr YES		WB	0.46	Vert(CT)	-0.16 10-13 >936 180				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.06 6 n/a n/a				
								Weight: 53 lb		FT = 20%	

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

- 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 7-0-0, 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 91 lb uplift at joint 6 and 87 lb uplift at joint 2.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25,2021

Job

2630316

Truss

D05

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

2630316/woodside ridge 40/mo

ID: wH4RYhEstNeUP2dXvOfi1syQY8e-BsG9a6Na5LRQmHjZOeQ1izLyiyAsiAdnYNz3?UzhaQG

03/22/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.09 11-14 >999 240	MT20		197/144	
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 7 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 56 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 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.
TOP CHORD 2-4=-829/171, 4-5=-537/127
BOT CHORD 2-11=-296/736, 10-11=-115/306, 7-8=-163/423
WEBS 4-11=-389/170, 9-11=-15/352, 5-9=-15/325, 5-7=-586/175

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 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
- 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 87 lb uplift at joint 7 and 91 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 25,2021

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

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

MiTek®

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
2630316	D06	HALF HIP	1	1	Job Reference (optional)	J44962135
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017			
0-10-8		5-1-12	10-0-0	11-7-8	12-3-8	ID:wH4RYhEsTNeUP2dXvOf1syQY8e-BsG9a6Na5LRQmHjZ0eQ1izLwmy7olAsnYNz3?UzhaQG
0-10-8		5-1-12	4-10-4	1-7-8	0-8-0	Scale = 1:34.9

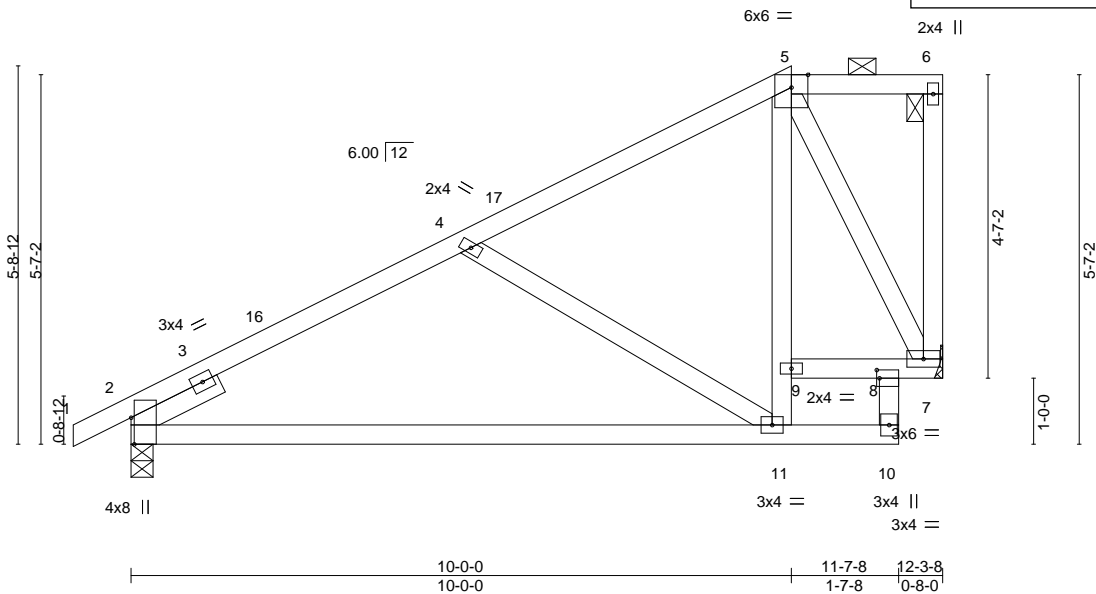


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [8:0-0-8,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.16 11-14	>939	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.32 11-14	>456	180		
BCLL 0.0	Rep Stress 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 -t 1-6-0

BRACING-

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

REACTIONS.

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

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 10-0-0, 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 bearing connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 7 and 90 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
2630316	D07	HALF HIP	1	1	Job Reference (optional)	J44967136

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-f2qXnSNCsfZHORImyMxGEAu_fMS10aXwm1jdXxzhaQF

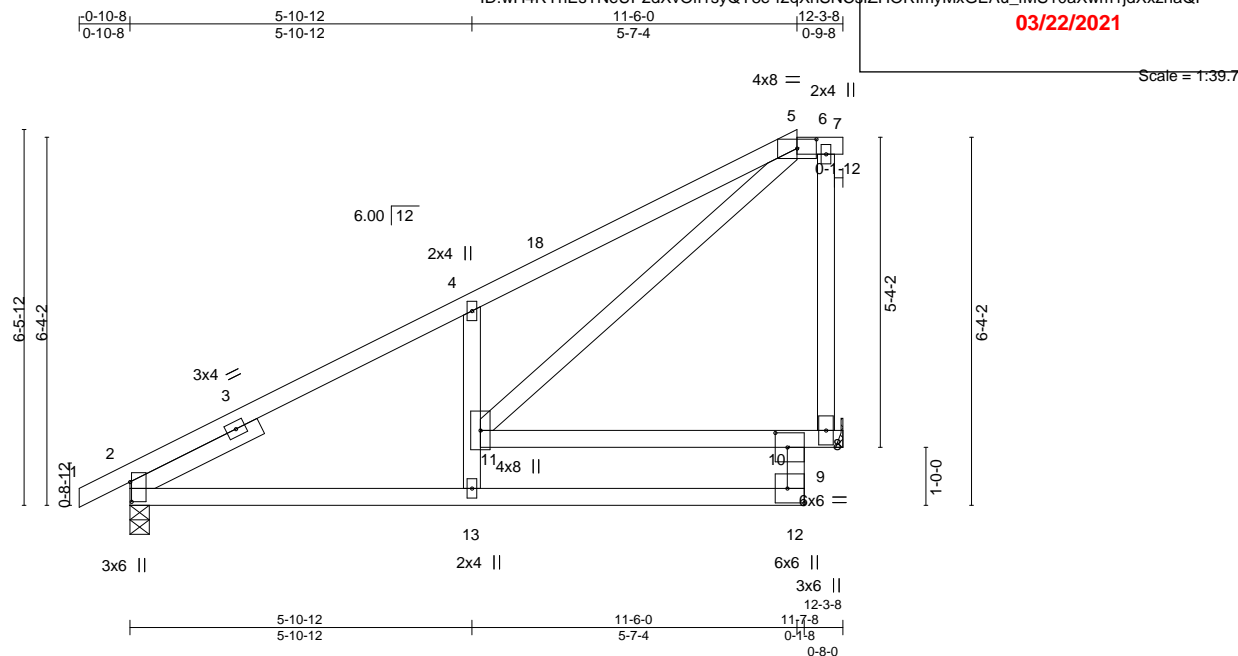


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5], [5:0-4-0,0-1-15], [10:0-2-8,0-3-0], [12:Edge,0-3-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.77	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.64	Vert(LL) -0.08 13-16 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Vert(CT) -0.16 13-16 >895 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.07 9 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 58 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 -t 2-6-0

BRACING-

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

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

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 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 59 lb uplift at joint 2 and 144 lb uplift at joint 9.
- 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 25, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

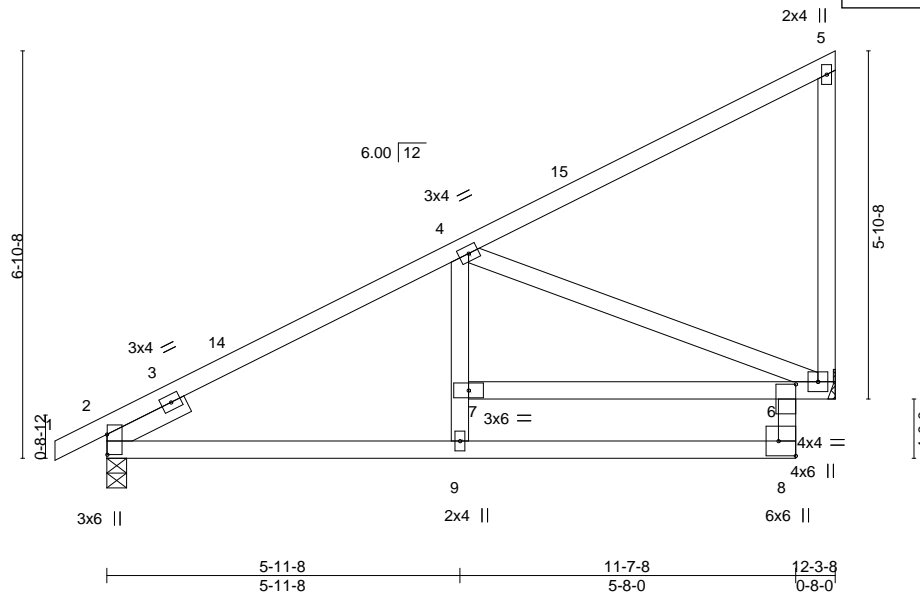


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [6:0-0-8,0-4-8], [8:Edge,0-3-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.11	9-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	6	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 -t 1-6-0

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

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
BOT CHORD 2-9=-166/730, 8-9=-59/445, 6-8=-27/350, 6-7=-151/403
WEBS 4-7=0/289, 4-6=-910/225

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 12-1-12 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 63 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 25, 2021



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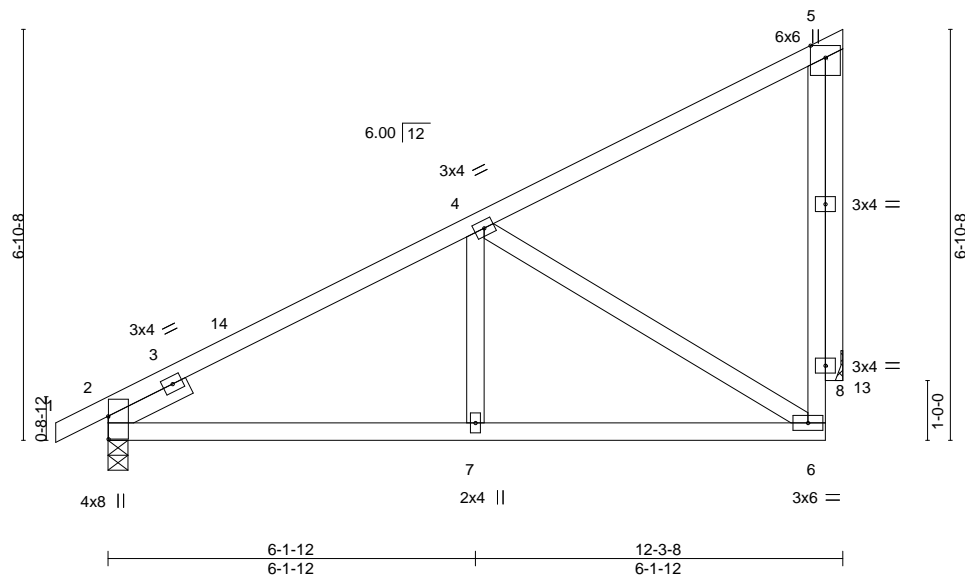


Plate Offsets (X,Y)-- [2:0-4-9,0-0-1]												
LOADING (psf)		SPACING- 2-0-0		CSL.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	7-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 57 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 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=-803/30, 6-8=-70/435, 5-8=-70/435
BOT CHORD	2-7=-173/683, 6-7=-173/683
WEBS	4-7=0/253, 4-6=-729/179, 5-13=-631/136

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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.
- 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 2 and 93 lb uplift at joint 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 25, 2021



WARNING – Velly design parameters are RED LINES ON THIS AND INCLUDED WITHIN KEY EXCERPT ADE MH-1419 (Rev. 1/19/2020) BY ONE USE.
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for the 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

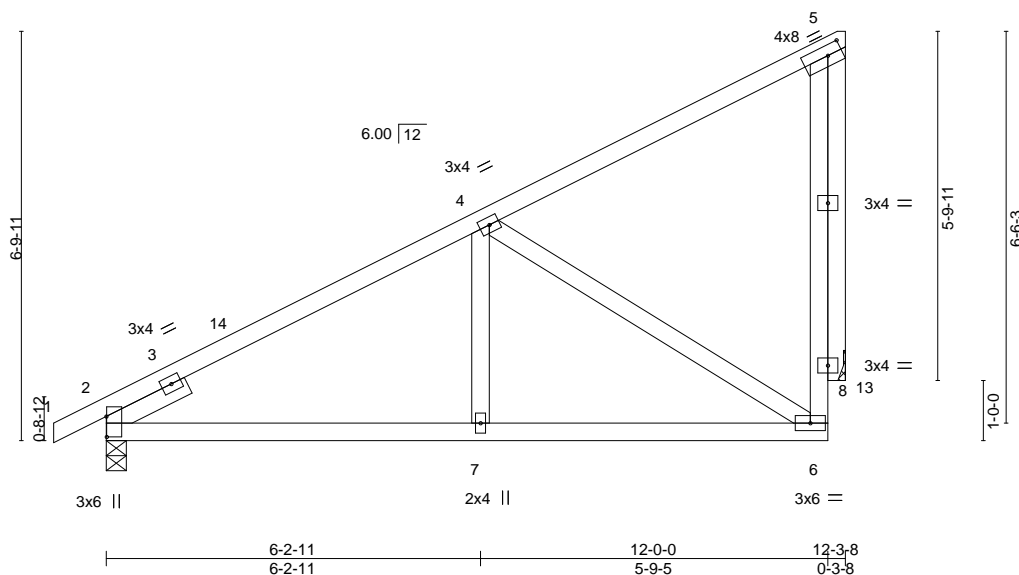


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [5:0-2-15,0-2-0]		CSI		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
LOADING	(psf)	SPACING-	2-0-0	TC	0.43	Vert(LL)	0.03	7-11	>999	240					MT20	197/144	
TCLL	25.0	Plate Grip DOL	1.15	BC	0.31	Vert(CT)	-0.06	7-11	>999	180							
TCDL	20.0	Lumber DOL	1.15	WB	0.55	Horz(CT)	0.02	13	n/a	n/a							
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS													
BCDL	10.0	Code IRC2018/TPI2014													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 -t 1-6-0

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

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.

TOP CHORD 2-4=-798/33, 6-8=-80/440, 5-8=-80/440
BOT CHORD 2-7=-171/677, 6-7=-171/677
WEBS 4-7=0/254, 4-6=-728/193, 5-13=-631/153

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 ; and 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 57 lb uplift at joint 2 and 153 lb uplift at joint 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.



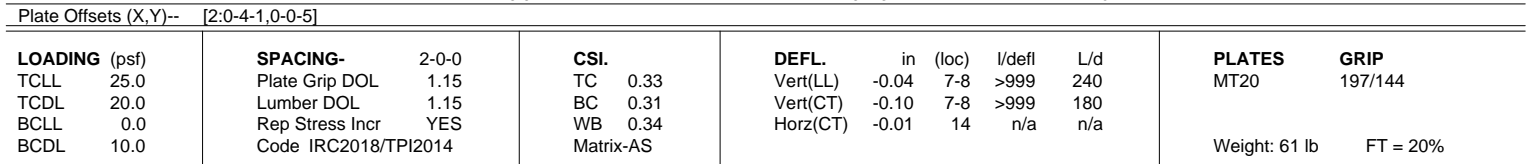
February 25, 2021



WARNING: Velly design parameters are listed below and included with the key reference to AISC M14-15 (16), 3/15/2020 by ONE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for the building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017



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

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

February 25, 2021

Job

2630316

Truss

D12

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-Xq42dpQjv4it2cXBC0CP02ohzsUyRHWfhqgizhaQB

03/22/2021

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

Scale: 3/8"=1'

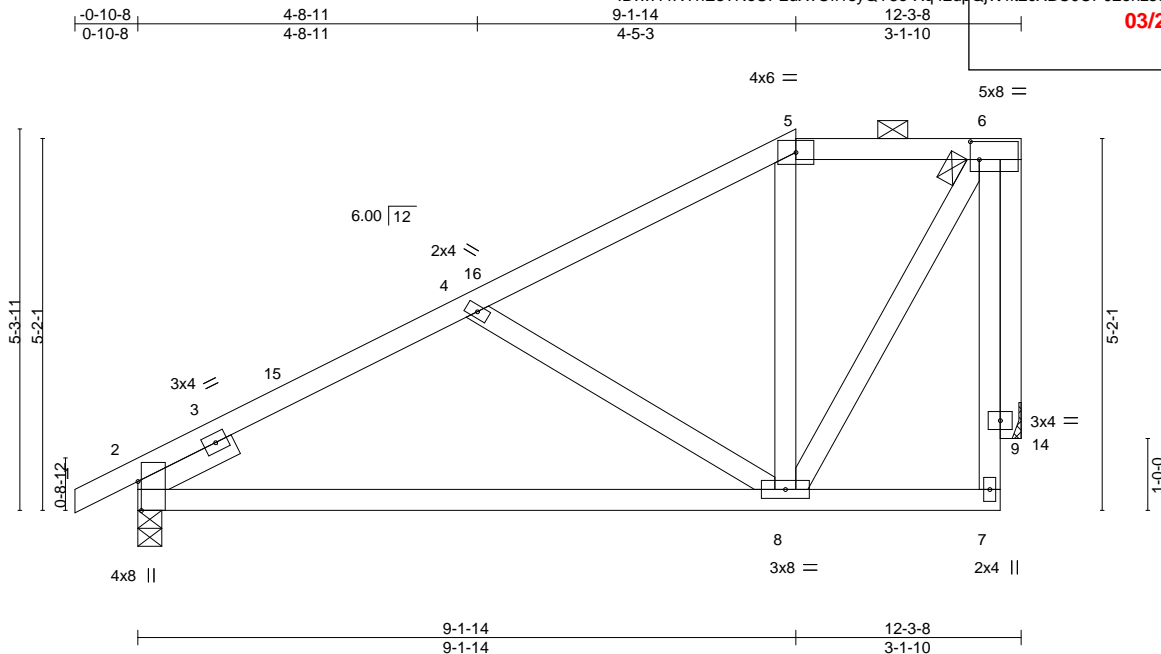


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [6:0-1-8,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.26	in (loc) l/defl L/d
TCDL 20.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.11 8-12 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.20	Vert(CT) -0.22 8-12 >664 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 14 n/a n/a
	Code IRC2018/TPI2014		
			PLATES GRIP
			MT20 197/144
			Weight: 59 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied.

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

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 91 lb uplift at joint 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

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

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

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

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

D13

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967142

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Xq42dpQjvt4it2cXBC0CP02oWzuKySFWfhqgizhaQB

03/22/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE SUMNER, MISSOURI

03/22/2021

Scale = 1:28.8

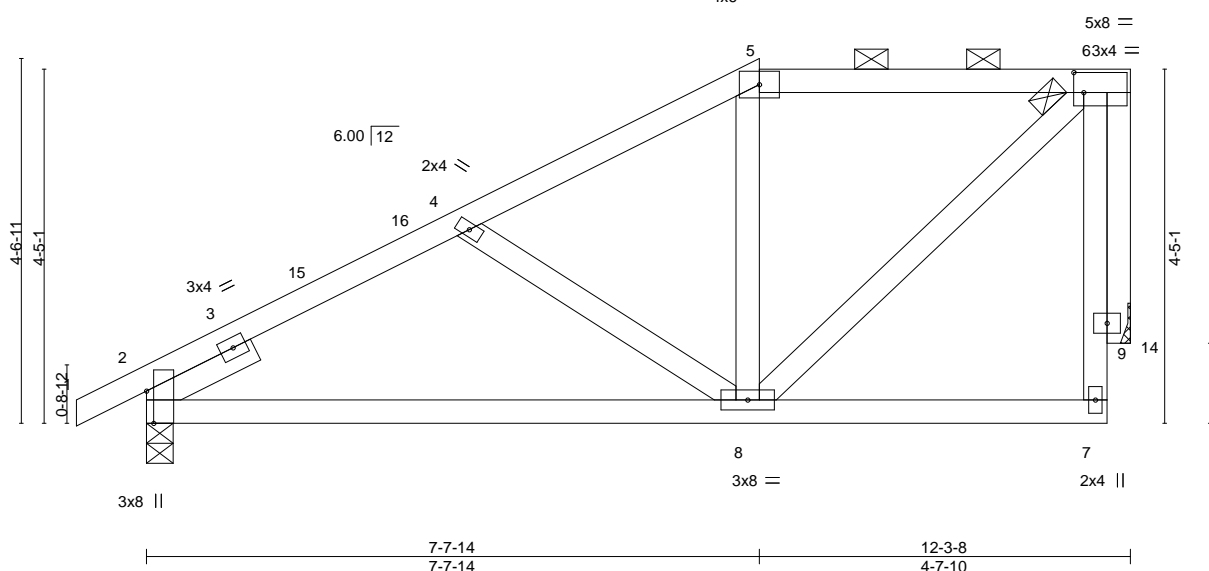


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [6:0-1-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27
TCDL 20.0	Lumber DOL	1.15	BC 0.36
BCLL 0.0	Rep Stress Incr	YES	WB 0.14
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.05 8-12 >999 240
		Vert(CT)	-0.10 8-12 >999 180
		Horz(CT)	0.02 14 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 - t 1-6-0	

REACTIONS. (size) 2=0-4-0, 14=Mechanical
Max Horz 2=135(LC 12)
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.
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
 - 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 78 lb uplift at joint 2 and 75 lb uplift at joint 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 25, 2021

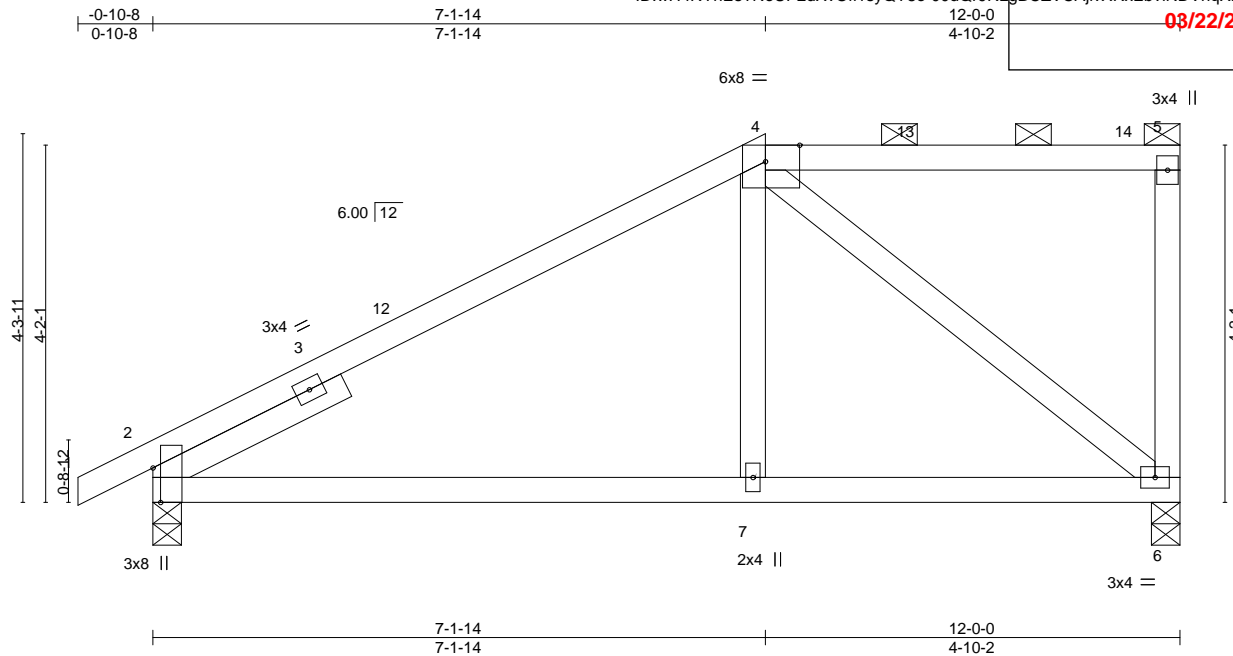


Plate Offsets (X,Y)-- [2:0-4-13,Edge], [4:0-4-13,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.06	7-10	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	7-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -t 2-6-0

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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 87 lb uplift at joint 2 and 89 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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 25, 2021



WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-743.3 REV. 3/19/2020 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 ANSITP1 Quality Criteria. DSB-89 and BCSI Building Co

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

D15

Truss Type

Roof Special Girder

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

0-10-8 3-0-4 5-9-0 9-6-5 13-3-11 17-1-0 18-7-0 20-0-0 24-6-0 26-9-0 28-11-0 33-1-0 37-3-0 37-9-0 40-0-0

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

Scale = 1:74.5

RELEASE FOR

CONSTRUCTION

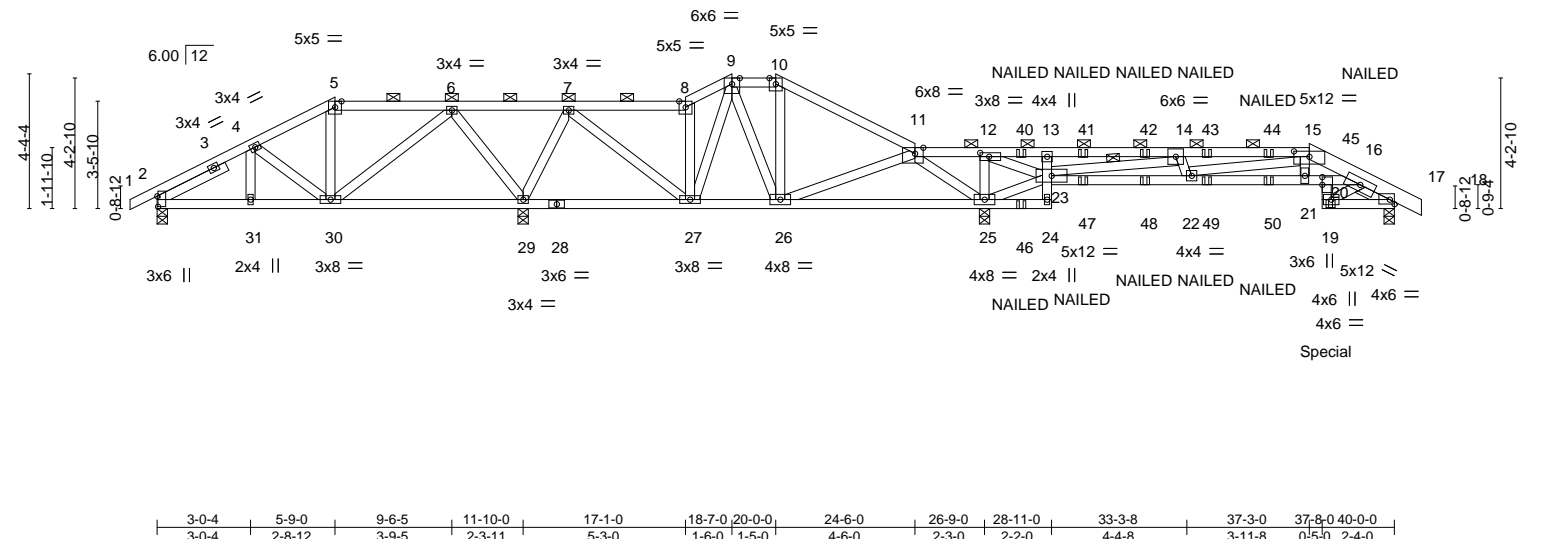
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

14967144



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.12 21-22 >999 240	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.23 21-22 >675 180				
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.06 17 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 176 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
15-18: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*
16-23: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 1-1-4

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except
2-0-0 oc purlins (3-1-1 max.): 5-8, 9-10, 11-15.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 20-21

WEBS 1 Row at midpt 14-23

REACTIONS.

All bearings 0-4-0.

(lb) - Max Horz 2=66(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=251(LC 9), 29=328(LC 36), 25=396(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=616(LC 21), 17=1127(LC 22), 29=1567(LC 25), 25=2395(LC 1)

FORCES.

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

TOP CHORD 2-4=617/118, 4-5=515/103, 5-6=425/110, 6-7=121/505, 7-8=346/165, 8-9=397/192, 9-10=378/231, 10-11=497/224, 11-12=350/1943, 12-13=101/686, 13-14=60/453, 14-15=2706/570, 15-16=2600/570, 16-17=845/203

BOT CHORD 2-31=115/572, 30-31=115/572, 26-27=79/351, 25-26=888/323, 13-23=343/86, 22-23=524/2611, 21-22=496/2487, 20-21=477/2386, 16-20=442/2214, 19-20=142/689, 17-19=168/772

WEBS 6-30=92/505, 6-29=841/193, 7-29=831/246, 7-27=192/637, 8-27=378/132, 10-26=275/85, 11-26=190/1083, 14-23=3113/625, 14-22=90/480, 15-21=126/638, 16-19=807/177, 15-22=47/257, 12-25=718/177, 11-25=1360/238, 23-25=1859/404, 12-23=286/1385

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=251, 29=328, 25=396.

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 guidelines.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 254 lb down and 71 lb up at joint(s) 2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

February 25, 2021

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

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

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

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/22/2021</div> </div>
2630316	D15	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

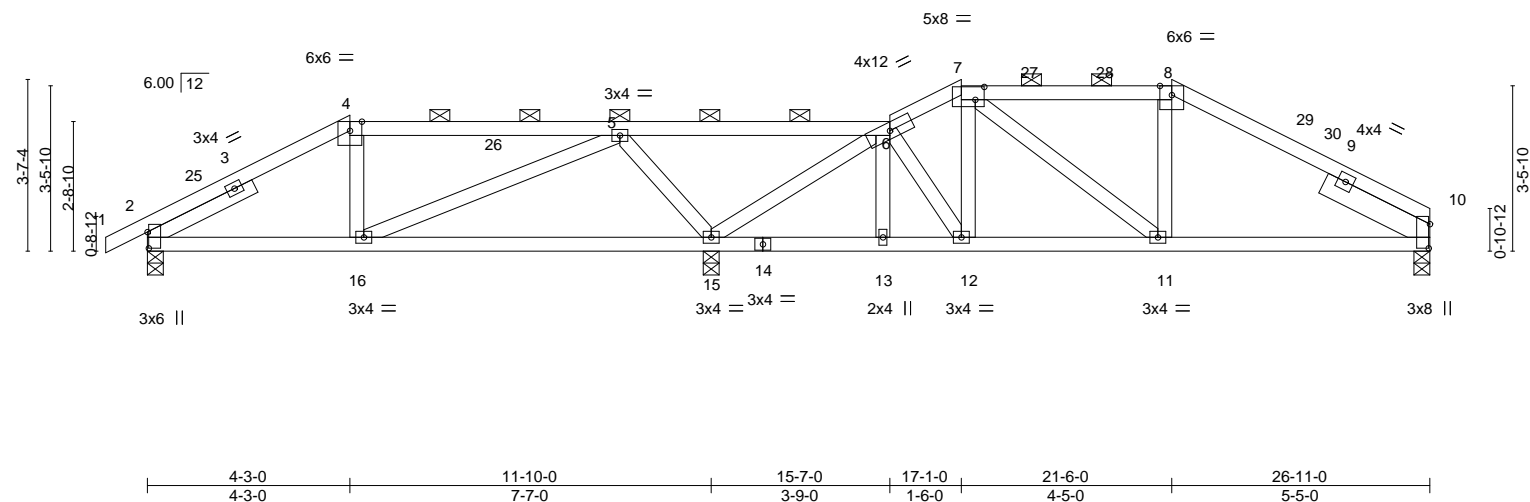
8.430 s Feb 12 2021 MiTek Industries, Inc.

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Page 1

NOTES-
 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: 1-5=-90, 5-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 11-15=-90, 15-18=-90, 24-32=-20, 20-23=-20, 19-36=-20
 Concentrated Loads (lb)
 Vert: 20=-254(F) 40=-57(F) 41=41(F) 42=41(F) 43=41(F) 44=41(F) 45=-63(F) 46=-41(F) 47=-195(F) 48=-195(F) 49=-195(F) 50=-195(F)



LOADING	SPACING-	CSI.	DEFL.	PLATES	GRIP
(psf)	2-0-0		in (loc) l/defl L/d		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.06 15-16 >999 240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.13 15-16 >999 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 106 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 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-6, 7-8.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 10=0-4-0, 2=0-4-0, 15=0-4-0
 Max Horz 2=62(LC 12)
 Max Uplift 10=-81(LC 13), 2=-102(LC 12), 15=-183(LC 12)
 Max Grav 10=724(LC 1), 2=598(LC 1), 15=1718(LC 1)

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

TOP CHORD	2-4=-548/120, 4-5=-538/129, 5-6=-55/682, 6-7=-704/168, 7-8=-758/183, 8-10=-879/170
BOT CHORD	2-16=-106/542, 13-15=-90/496, 12-13=-90/496, 11-12=-72/591, 10-11=-91/760
WEBS	5-16=-35/604, 5-15=-1047/216, 6-15=-1364/193

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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, and Exterior(2R) 4-3-0 to 7-3-0, Interior(1) 7-3-0 to 17-1-0, Exterior(2R) 17-1-0 to 20-1-0, Interior(1) 20-1-0 to 21-6-0, Exterior(2R) 21-6-0 to 24-6-0, Interior(1) 24-6-0 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
- 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) 10 except (jt=lb) 2=102, 15=183.
- 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 25, 2021



WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 707f,



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

D17

Truss Type

Roof Special Girder

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967146

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

2-9-0

6-6-5

10-3-11

14-1-0

15-7-0

19-3-8

23-0-0

26-11-0

0-10-8

2-9-0

3-9-5

3-9-5

3-9-5

1-6-0

3-8-8

3-8-8

3-11-0

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03/22/2021

Scale: 1/4"=1'

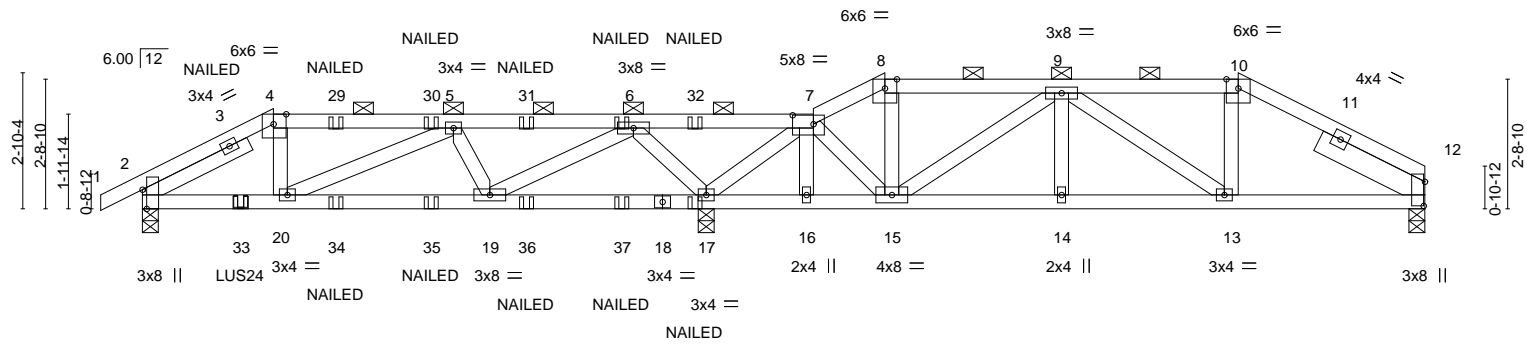


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [4:0-3-3,Edge], [7:0-5-4,0-2-4], [12:0-6-1,0-0-5]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 20.0	Lumber DOL	1.15
BCLL 0.0	Rep Stress Incr	NO
BCDL 10.0	Code IRC2018/TPI2014	
	CSI.	
	TC	0.68
	BC	0.47
	WB	0.33
	Matrix-MS	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.02 19-20 >999 240
	Vert(CT)	-0.06 19-20 >999 180
	Horz(CT)	0.02 12 n/a n/a
	PLATES	MT20
	GRIP	197/144
	Weight:	108 lb
	FT =	20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-2-12 max.): 4-7, 8-10.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0	

REACTIONS. (size) 12=0-4-0, 2=0-4-0, 17=0-4-0
Max Horz 2=50(LC 8)
Max Uplift 12=87(LC 30), 2=-204(LC 8), 17=-281(LC 4)
Max Grav 12=672(LC 1), 2=952(LC 21), 17=2231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1143/245, 4-5=-1057/244, 5-6=-814/176, 6-7=-177/1384, 7-8=-444/219, 8-9=-374/208, 9-10=-742/148, 10-12=-849/157
BOT CHORD 2-20=-233/1033, 19-20=-229/1032, 17-19=-363/102, 16-17=-266/107, 15-16=-262/107, 14-15=-206/850, 13-14=-206/850, 12-13=-105/732
WEBS 4-20=0/261, 5-19=-532/155, 6-19=-151/1336, 6-17=-1534/293, 7-17=-1443/180, 7-15=-80/743, 9-15=-705/107

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=204, 17=281.
 - This truss 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.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



February 25,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
2630316	D17	Roof Special Girder	1	1	Job Reference (optional)	J44967146

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Feb 12 2021 MiTek Industries, Inc.

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-qA?h5CW6G1yjD7et5AerBVruOoFK5a5YIFtiQozhaQ4

LOAD CASE(S) Standard

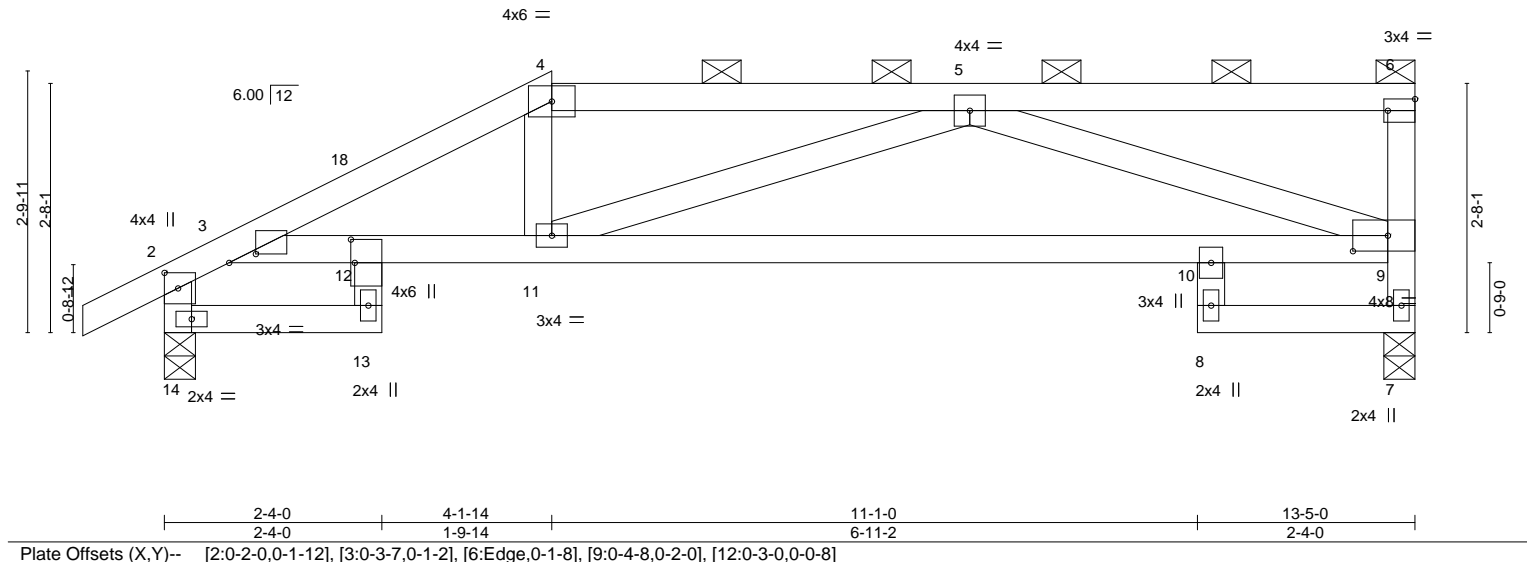
Uniform Loads (plf)

Vert: 1-4=-90, 4-7=-90, 7-8=-90, 8-10=-90, 10-12=-90, 21-25=-20

Concentrated Loads (lb)

Vert: 6=-57(F) 17=-45(F) 3=-63(F) 29=-57(F) 30=-57(F) 31=-57(F) 32=-61(F) 33=-254(F) 34=-41(F) 35=-41(F) 36=-41(F) 37=-41(F)

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES		
2630316	E02	HALF HIP	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14962147					
			ID:wH4RYhEstNeUP2dXvOfi1syQY8e-IMZ4JYXk1L4aqHD3ft94jin4wCZpq_mhXvdFyEzhaQ3					
-0-10-8 0-10-8			2-4-0 2-4-0			4-1-14 1-9-14		
			8-7-11 4-5-13			11-1-0 2-5-5		
						13-5-0 2-4-0		
						Scale = 1:24.7		



LOADING (psf)		SPACING-		CSI.		DEFL.		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%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	7=0-4-0, 14=0-4-0
Max Horz	14=96(LC 11)
Max Uplift	7=-106(LC 9), 14=-73(LC 12)
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
WEBS	4-11=0/350, 5-9=-1264/338

- 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 4-1-14, 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 100 lb uplift at joint(s) 14 except (jt=lb) 7=106.
 - 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 25,2021

Job: 2630316

Truss: E03

Truss Type: HALF HIP

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, Missouri

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2-4-0

4-7-14

2-3-14

8-8-7

4-0-9

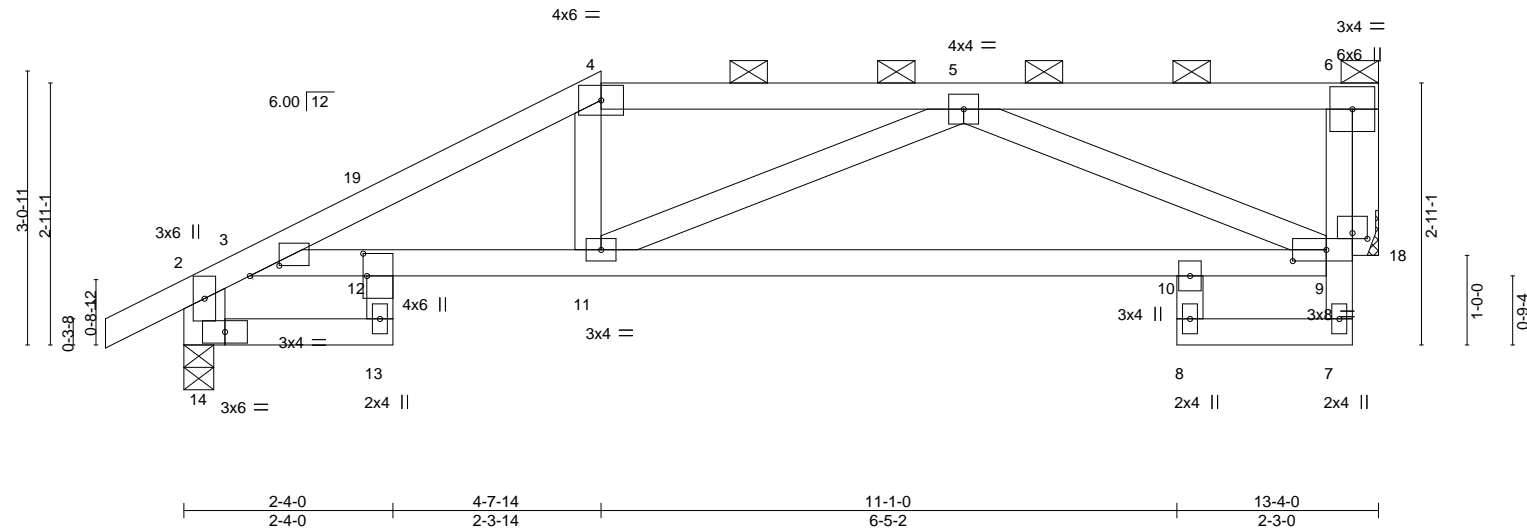
11-1-0

2-4-9

13-4-0

2-3-0

Scale = 1:25.7



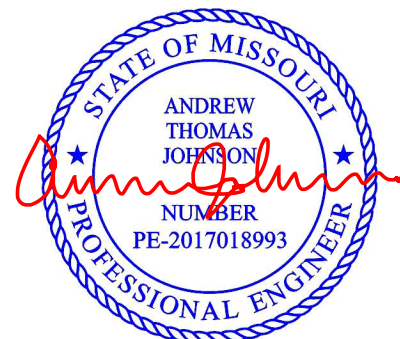
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.08 10-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.17 10-11	>923	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.05 18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 54 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-15 max.): 4-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except*	
2-14: 2x6 SPF No.2	
OTHERS 2x4 SPF No.2	

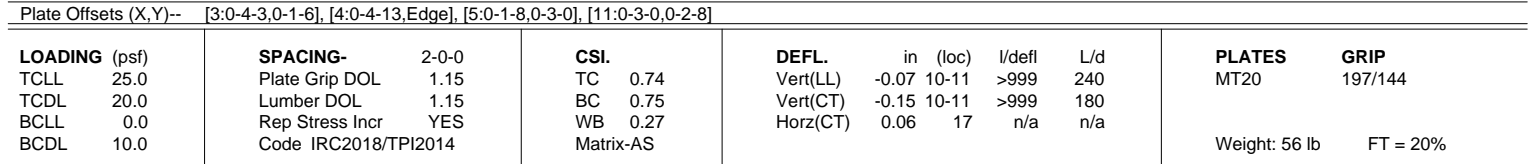
REACTIONS.	(size)
14=0-4-0, 18=Mechanical	
Max Horz 14=79(LC 9)	
Max Uplift 14=74(LC 12), 18=95(LC 9)	
Max Grav 14=820(LC 1), 18=672(LC 25)	

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 18.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021



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)

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

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/TPH Quality Criteria, DSB-89 and BCSI Building Components**.

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

Job

2630316

Truss

E05

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967150

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-FlgqjEY_ZyKI4aMSmIBYp7TTM?EJL_6_?D6M17zhaQ1

Lee's Summit, Missouri

03/22/2021

0-10-8

2-4-0

4-8-13

7-7-14

11-1-0

13-4-0

0-10-8

2-4-0

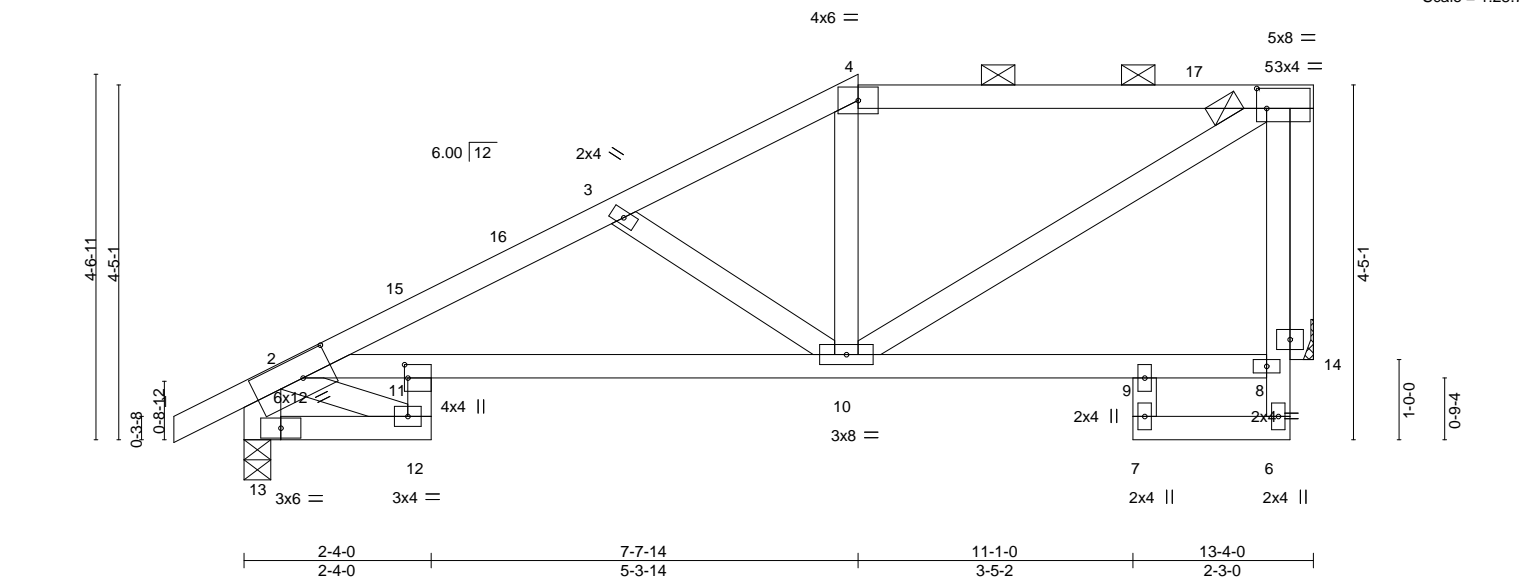
2-4-13

2-11-1

3-5-2

2-3-0

Scale = 1:28.7



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 10-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.19 10-11	>819	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 62 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
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=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.
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
WEBS	5-10=-184/728, 3-10=-367/172, 5-14=-679/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo
2630316	E06	HALF HIP	1	1	8.430 s Feb 12 2021 MiTek Industries, Inc. 14962151
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)
ID: wH4RYhEsTNeUP2dXvOf1syQY8e-jxEcXaZdKGS8hkxeK?inLL?dJPaM1RY8DtrvZZzhaQ0					03/22/2021

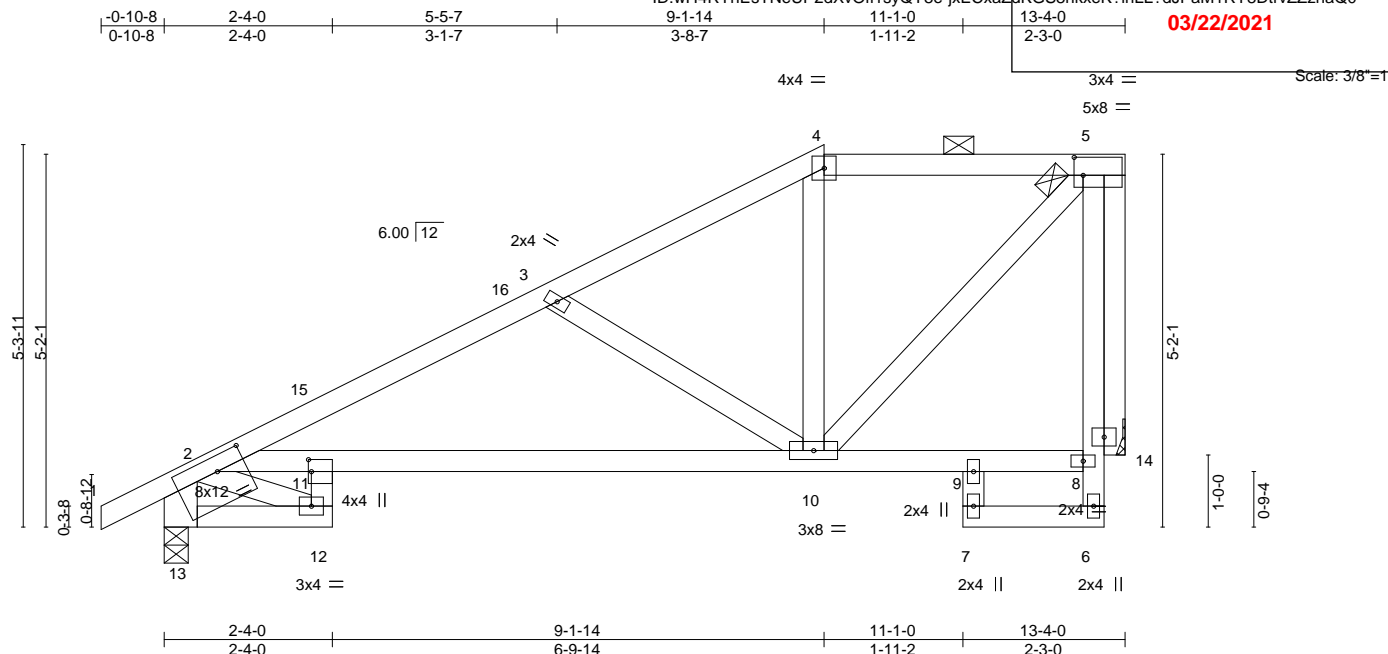


Plate Offsets (X,Y)--		[2:0-4-12,0-2-8], [5:0-1-8,0-3-0], [11:0-2-0,0-0-8]														
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP		
TCLL	25.0	Plate Grip DOL		1.15		TC	0.49	Vert(LL)	-0.13	10-11	>999	240	MT20	197/144		
TCDL	20.0	Lumber DOL		1.15		BC	0.65	Vert(CT)	-0.33	10-11	>471	180				
BCLL	0.0	Rep Stress Incr		YES		WB	0.17	Horz(CT)	0.09	14	n/a	n/a				
BCDL	10.0	Code IRC2018/TPI2014				Matrix-AS							Weight: 65 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 2-13: 2x6 SPF No.2
 OTHERS 2x4 SPF No.2

BRACING-

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

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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

2630316

Truss

E07

Truss Type

Half Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-B7oa8waF4Za?JuWqjD0uYYqUp_EmqFHSXbT5?zhaQ?

0-10-8

5-5-11

10-7-14

13-4-0

0-10-8

5-5-11

5-2-3

2-8-2

03/22/2021

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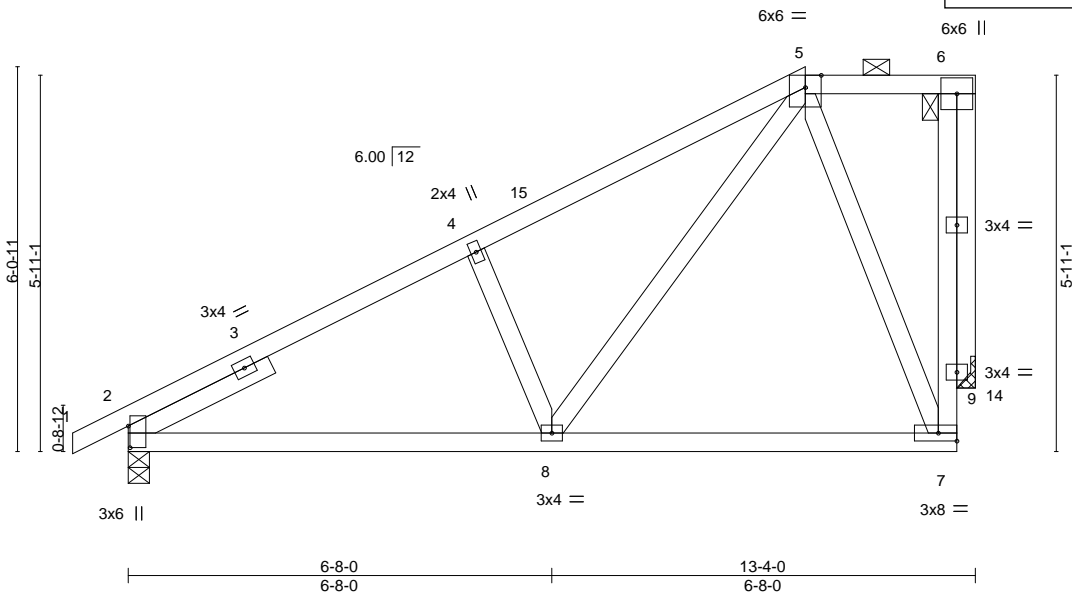


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.08	7-8	>999	180			
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.01	14	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS								
										Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 - t 2-6-0

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

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)

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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=114.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

Job

2630316

Truss

E08

Truss Type

Half Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

8.430 s Feb 12 2021 MiTek Industries, Inc.

0-10-8

3-4-0

7-9-14

9-5-8

12-1-14

13-4-0

0-10-8

3-4-0

4-5-14

1-7-10

2-8-6

1-2-2

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-fKMzMGAtrrisx251SQIFQm50ZDF0VlgRhBK0eSzhaQ_

14967153

LEE'S SUMMIT, MISSOURI

03/22/2021

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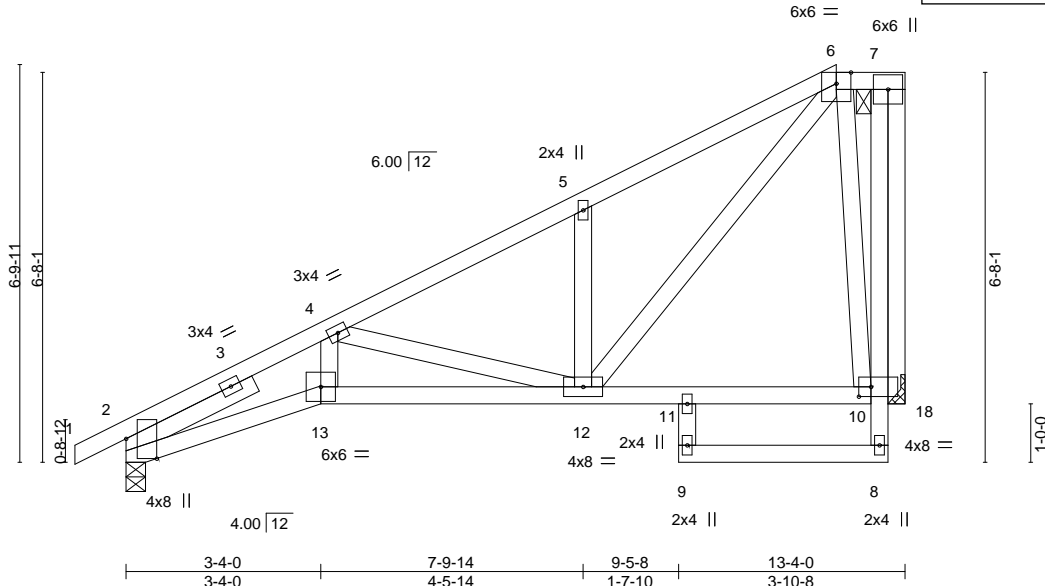


Plate Offsets (X, Y)--		[2:0-4-1, Edge], [10:0-2-8, 0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31
TCDL 20.0	Lumber DOL	1.15	BC 0.64
BCLL 0.0	Rep Stress Incr	YES	WB 0.32
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.06 12-13 >999 240
		Vert(CT)	-0.13 12-13 >999 180
		Horz(CT)	0.06 18 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 - t 2-6-0	

REACTIONS. (size) 2=0-4-0, 18=Mechanical
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,
7-18=-692/188

- 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 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 100 lb uplift at joint(s) 2 except (jt=lb) 18=149.
 - 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 25, 2021

Job

2630316

Truss

E09

Truss Type

JACK-CLOSED

Qty

3

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-7WwLZcbVcBrjYCgD?8GUzzd6vdcZEKqavr4a9uzhaPz

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

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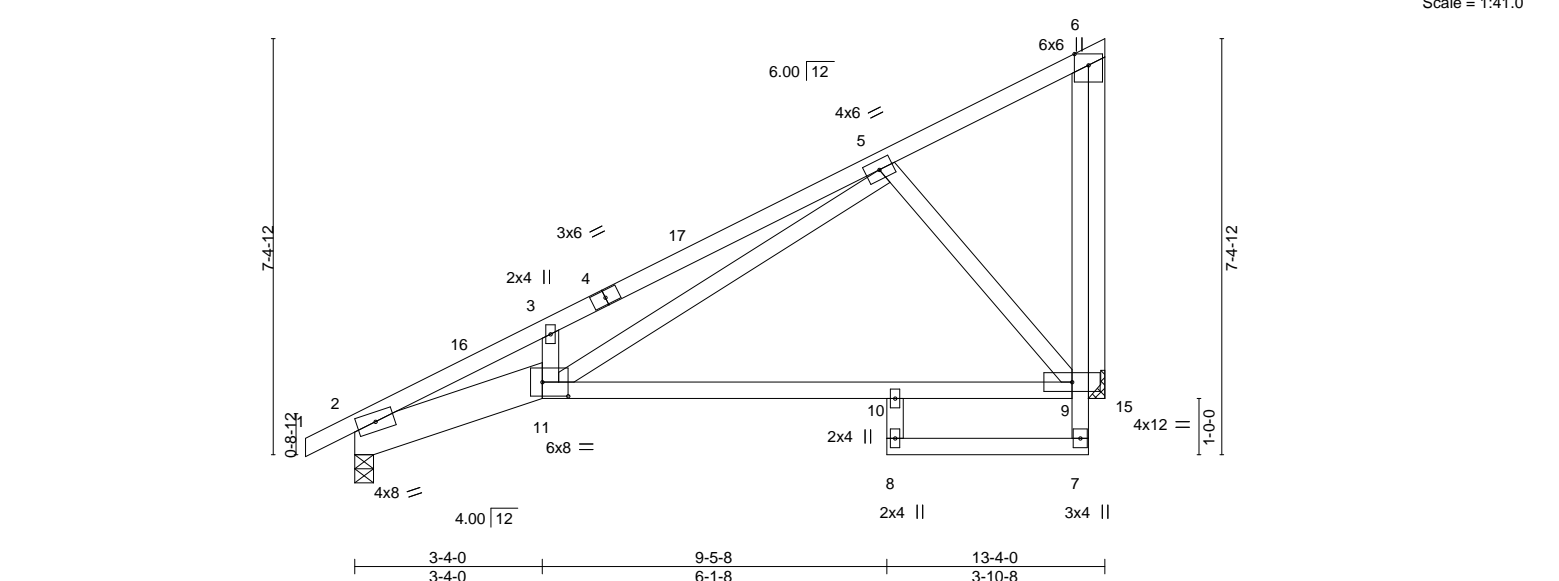


Plate Offsets (X,Y)--		[11:0-5-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59
TCDL 20.0	Lumber DOL	1.15	BC 0.62
BCLL 0.0	Rep Stress Incr	YES	WB 0.39
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.22 10-11 >720 240
			Vert(CT) -0.51 10-11 >313 180
			Horz(CT) 0.07 15 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 74 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2 "Except"	BOT CHORD Rigid ceiling directly applied.
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 capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
 - 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 25, 2021

Job

2630316

Truss

E10

Truss Type

JACK-CLOSED

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-biUjnc7NUzaAMFPZrnjVBAJ90xyz5ij8Vp7hKzhaPy

03/22/2021

0-10-8

3-4-0

6-6-8

13-4-0

0-10-8

3-4-0

3-2-8

6-9-8

Scale = 1:41.0

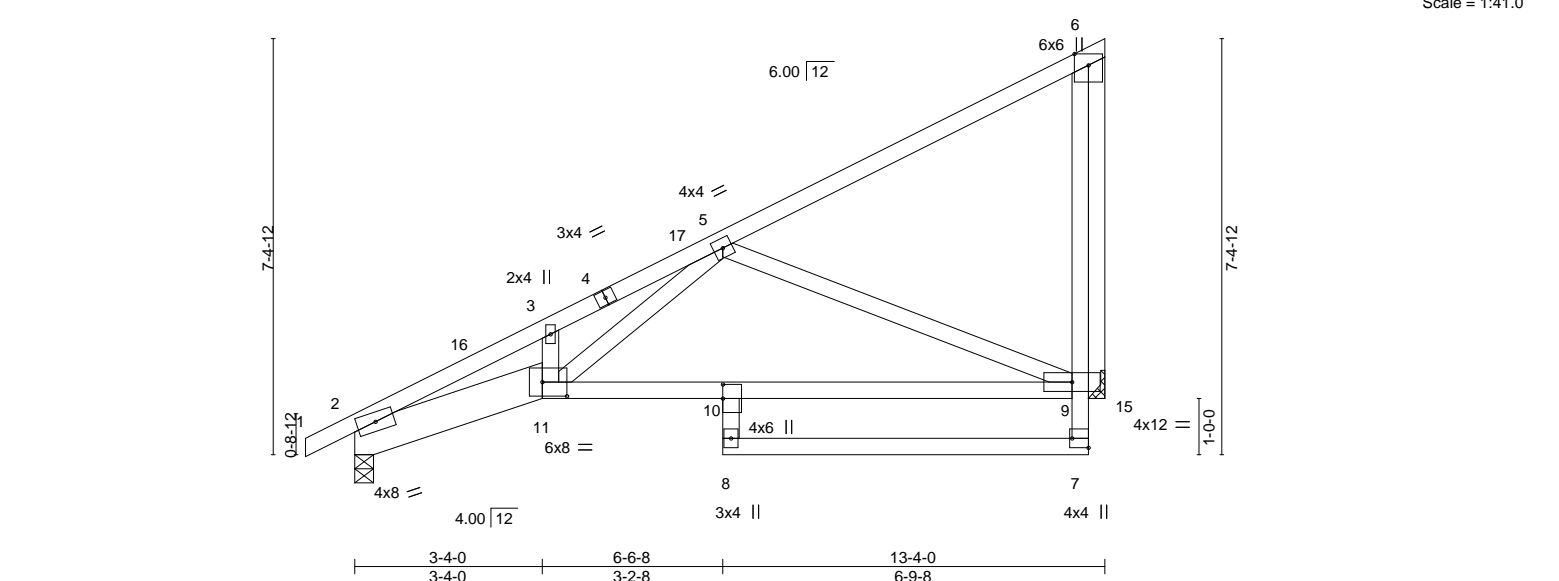


Plate Offsets (X, Y)--		[7:Edge,0-3-8], [10:0-3-0,0-0-0], [11:0-5-4,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.50	in (loc) l/defl L/d
TCDL 20.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.11 8 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.26 10 >599 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 15 n/a n/a
	Code IRC2018/TPI2014		
			PLATES GRIP
			MT20 197/144
			Weight: 76 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SPF No.2 "Except"	BOT CHORD	Rigid ceiling directly applied.
	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 capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
 - 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 25, 2021

Job

2630316

Truss

E11

Truss Type

JACK-CLOSED

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

6-8-0

13-4-0

0-10-8

6-8-0

6-8-0

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Y5bTCdeOv6DIPfPohGpCbCFe4qiAR_M0cpEmDzhaPw

03/22/2021

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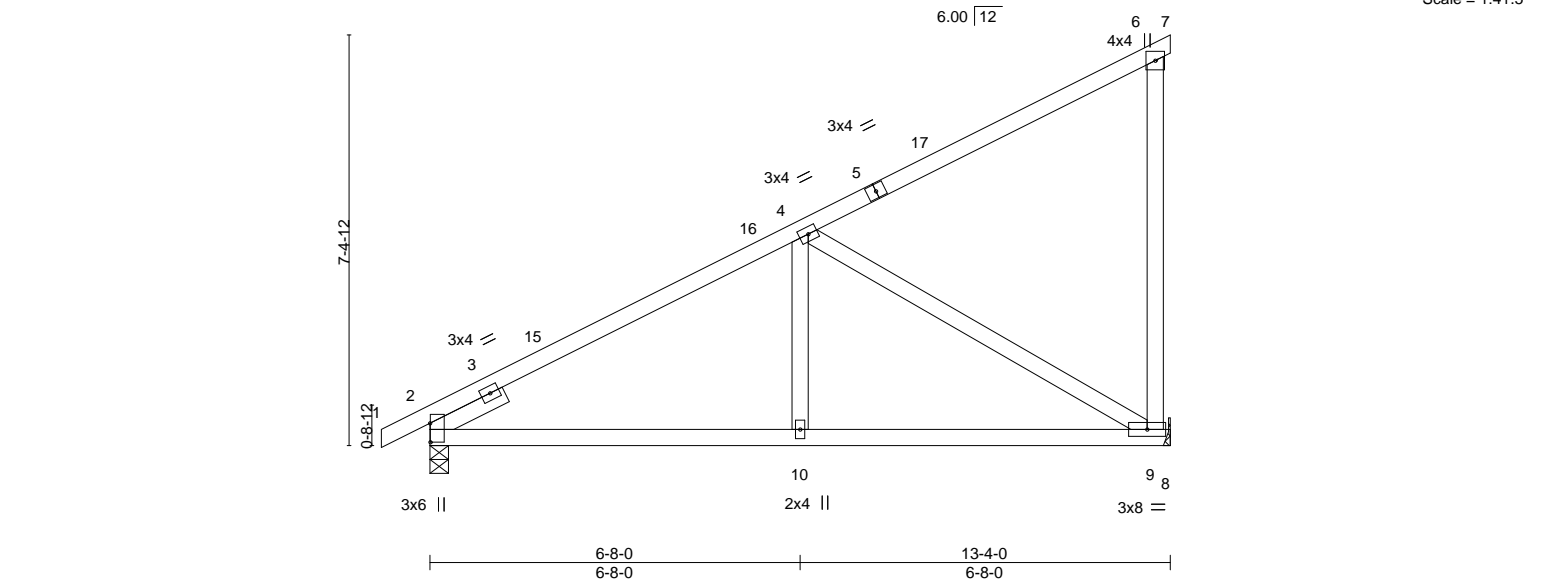


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53
TCDL 20.0	Lumber DOL	1.15	BC 0.37
BCLL 0.0	Rep Stress Incr	YES	WB 0.79
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.04 9-10 >999 240
			Vert(CT) -0.08 9-10 >999 180
			Horz(CT) 0.02 9 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 55 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 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

- 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 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.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



February 25,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 144967157
2630316	E12	HALF HIP	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. LE'S SUMMIT MISSOURI

ID: wH4RYhEstNeUP2dXvOf1syQY8e-0H9sPzegPL91p_E_KR7popSE1fAQwAqS2nlzfhaPv

0-10-8 6-7-12 13-0-0 13-4-0 0-10-8 6-7-12 6-4-4 0-4-0

03/22/2021

5x5 Scale = 1:41.2

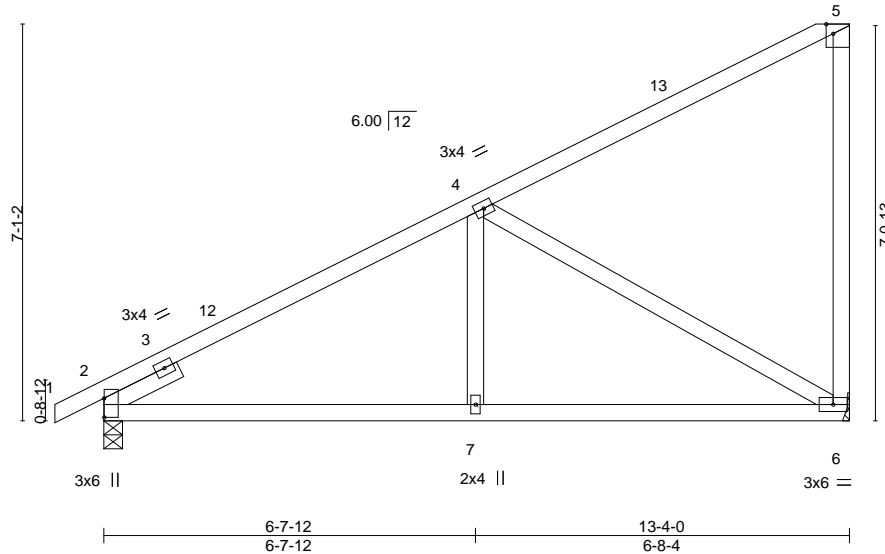


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [5:0-2-1,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0	Rep 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%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -t 1-6-0

BRACING-

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

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.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=142.
- 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 25, 2021



WARNING – Velly design parameters ARE NOT TO BE USED ON THIS AND INCLUDED WITH REFERENCE TO AISC M17-13 107. 3/15/2020 BY ONE 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, 2602 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

E13

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

2630316/woodside ridge 40/mo

ID:wH4RYhEstNeUP2dXvOf1syQY8e-UTJEJfErJTOfzYAohrgg1L1?eMGvztJ36nKq5zhaPu

14967158

Lee's Summit, Missouri

03/22/2021

Scale = 1:38.6

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

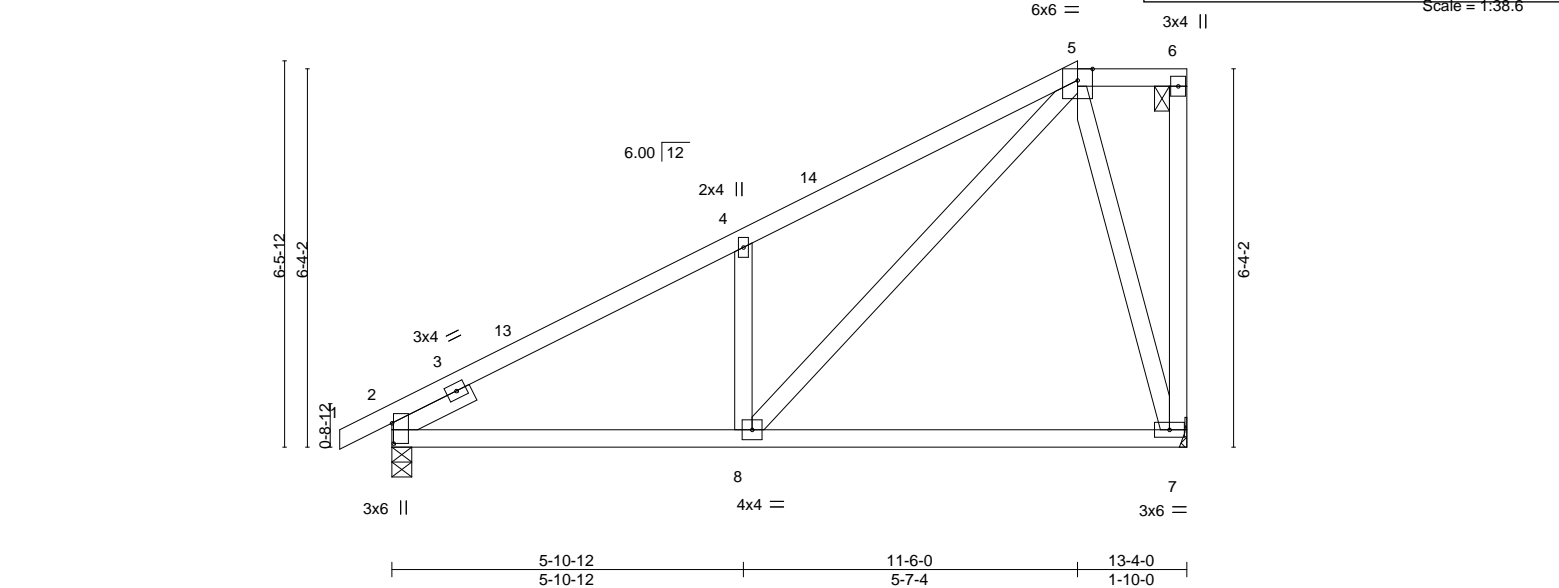


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.39	Vert(LL) -0.08 7-8 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Vert(CT) -0.16 7-8 >972 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.01 7 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 61 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 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.	
TOP CHORD	2-4=-967/145, 4-5=-1001/254
BOT CHORD	2-8=-279/792
WEBS	4-8=-512/215, 5-8=-219/892, 5-7=-676/308

- 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 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
 - 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=108.
 - 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 25,2021

Job

2630316

Truss

E14

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

8.430 s Feb 12 2021 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-ygHcqtGC1btG77NMONvCEtDj1feeTASlmXuMYzhaPt

03/22/2021

Job Reference (optional)

LEE SUMNER MISSOURI

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/22/2021

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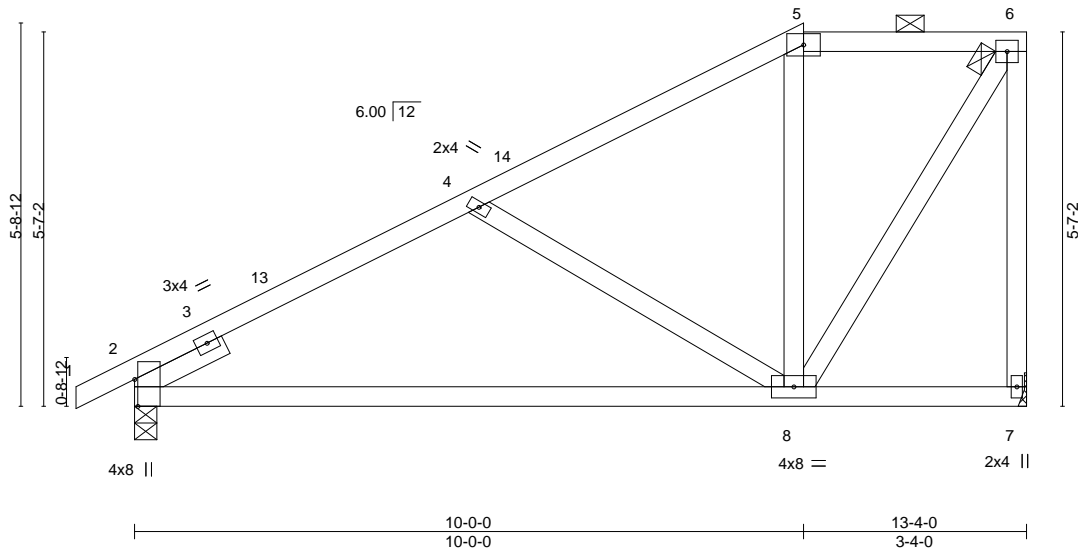


Plate Offsets (X,Y)--		[2:0-4-13,Edge]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.16 8-11	>999	240
TCDL	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.32 8-11	>491	180
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02 2	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS					
						PLATES	MT20	GRIP	197/144
								Weight: 59 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 -t 1-6-0

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

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

- 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 10-0-0, 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 bearing plate 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 25,2021

Job

2630316

Truss

G01

Truss Type

Hip Girder

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. See 14962160

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

Lee's Summit, Missouri

-0-10-8

2-9-0

7-11-8

13-2-0

15-7-0

0-10-8

2-9-0

5-2-8

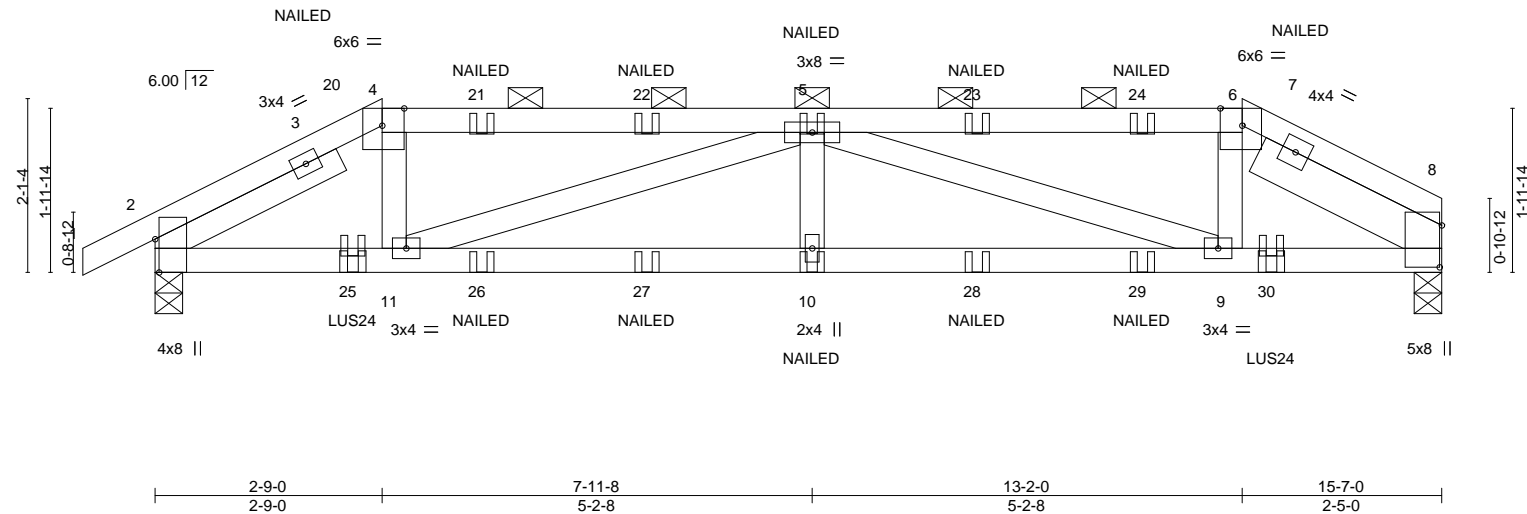
5-2-8

2-5-0

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03/22/2021

Scale = 1:27.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.10	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23				
BCLL	0.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 61 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-11 oc purlins, except
BOT CHORD	2x4 SPF 1650F 1.5E		2-0-0 oc purlins (3-3-10 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-14 oc bracing.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0		

REACTIONS.	
(size)	8=0-4-0, 2=0-4-0
Max Horz	2=37(LC 8)
Max Uplift	8=257(LC 9), 2=-268(LC 8)
Max Grav	8=1429(LC 1), 2=1487(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-2213/401, 4-5=-2009/371, 5-6=-1852/338, 6-8=-2040/355
BOT CHORD	2-11=-348/1946, 10-11=-546/3351, 9-10=-546/3351, 8-9=-302/1785
WEBS	4-11=-52/719, 5-11=-1440/221, 5-10=0/307, 5-9=-1602/252, 6-9=-61/768

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=257, 2=268.
 - This truss 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.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 11-1-8 oc max. starting at 2-4-12 from the left end to 13-6-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
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	



February 25, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021</div>
2630316	G01	Hip Girder	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Feb 12 2021 MiTek Industries, Inc. Feb 12 2021 14:48:24 Missouri Page 1
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-u2PMFLhWkerbWQHITpPNlfzSKrJq6Fcll40?RQzhaPr						
LOAD CASE(S) Standard						
Concentrated Loads (lb)						
Vert: 10=-41(B) 5=-57(B) 7=-63(B) 20=-63(B) 21=-57(B) 22=-57(B) 23=-57(B) 24=-57(B) 25=-254(B) 26=-41(B) 27=-41(B) 28=-41(B) 29=-41(B) 30=-254(B)						

Job: 2630316

Truss: H01

Truss Type: HIP GIRDER

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8/2/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

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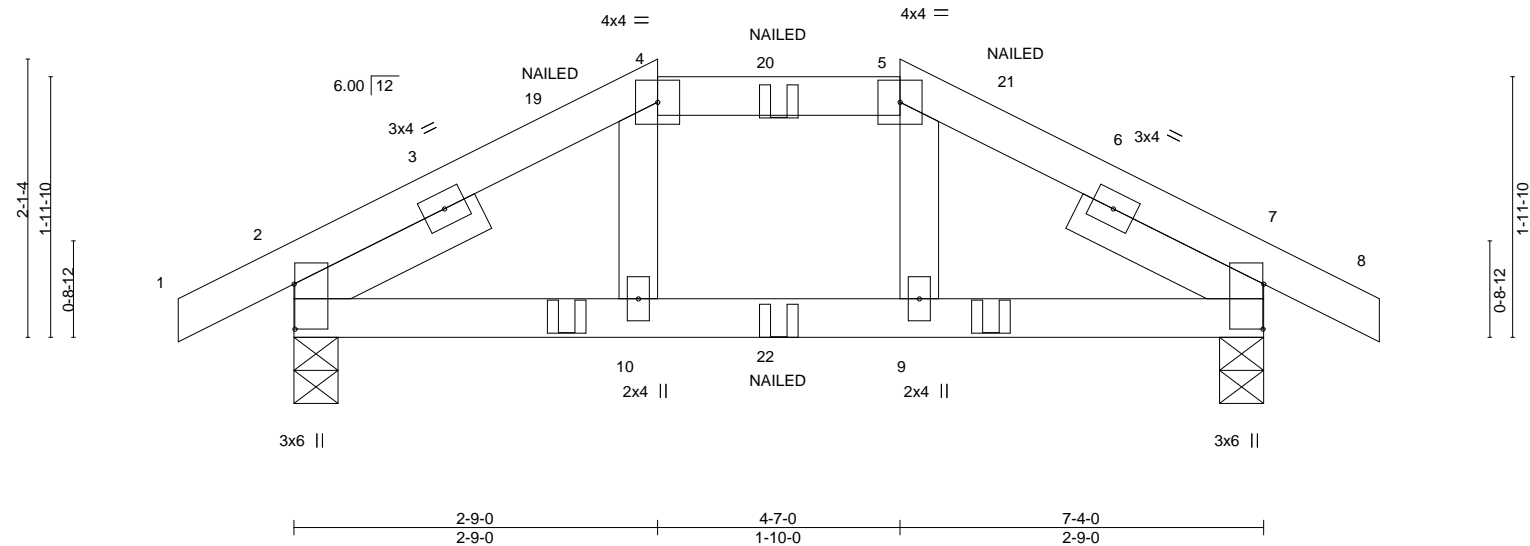


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [7:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	DEFL. in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.21	Vert(LL) -0.01 9 >999 240
BCLL 0.0	Rep Stress Incr NO	WB 0.02	Vert(CT) -0.02 9-10 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.01 7 n/a n/a
			PLATES MT20 GRIP 197/144
			Weight: 27 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SPF No.2 -t 1-6-15, Right 2x4 SPF No.2 -t 1-6-15	

REACTIONS.	(size) 2=0-4-0, 7=0-4-0
	Max Horz 2=28(LC 33)
	Max Uplift 2=128(LC 8), 7=128(LC 9)
	Max Grav 2=594(LC 1), 7=594(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-607/161, 4-5=-529/141, 5-7=-607/161
BOT CHORD	2-10=-105/533, 9-10=-107/529, 7-9=-107/533

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 7=128.
 - 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 guidelines.
 - 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=-63(B) 20=-57(B) 21=-63(B) 22=-41(B)



February 25, 2021

Job: 2630316

Truss: H02

Truss Type: COMMON

Qty: 4

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. L16534M082501 Page 1

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-MFzkShi8VyzS7asy1XwcqtVIZFo5rudv_klYztzhaPq

0-10-8 3-8-0 7-4-0 8-2-8 0-10-8

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

4x4 =

4

6.00 12

3x4 = 3

17

18

5 3x4 =

6

7

2-6-12

0-8-12

2x4 ||

3x6 ||

3x6 ||

3-8-0 7-4-0 3-8-0

3-8-0 3-8-0

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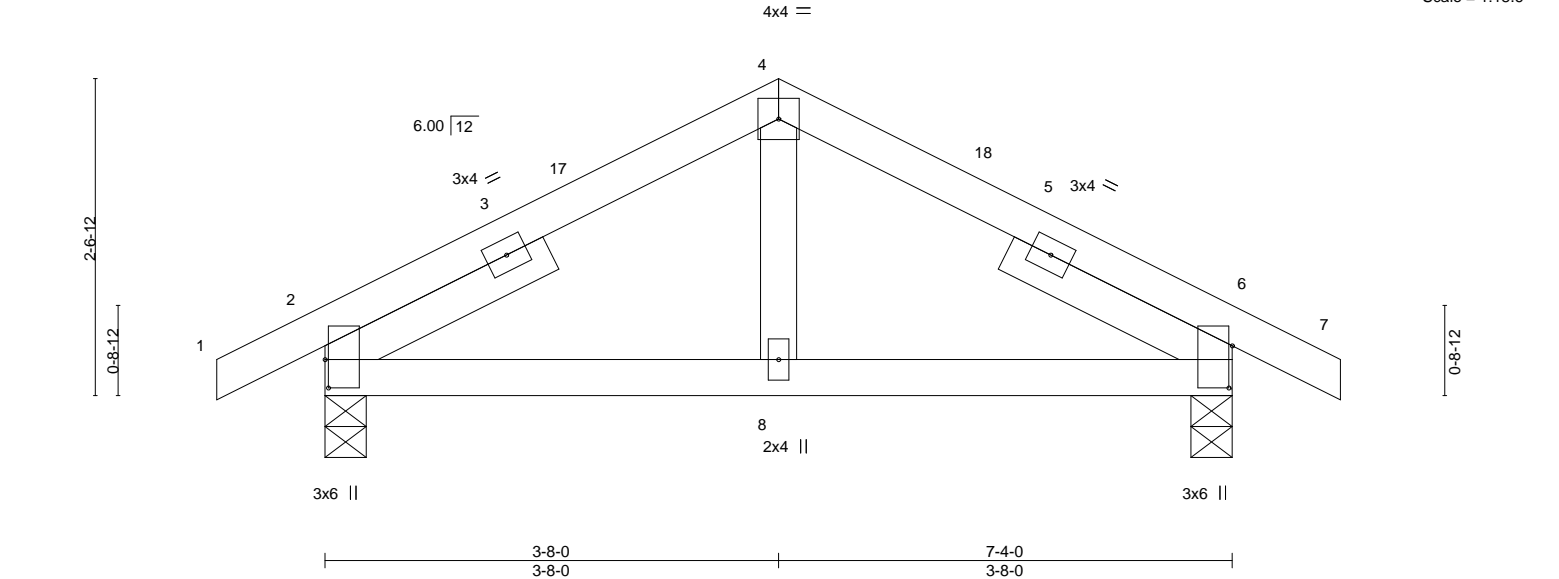


Plate Offsets (X, Y)--		[2:0-2-12,0-0-5], [6:0-4-1,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15
TCDL 20.0	Lumber DOL	1.15	BC 0.15
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 8-15 >999 240
			Vert(CT) -0.01 8-15 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 27 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 2-0-3, Right 2x4 SPF No.2 -t 2-0-3	

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.
TOP CHORD	2-4=-384/185, 4-6=-384/185
BOT CHORD	2-8=-63/332, 6-8=-63/332

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
 - 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 25,2021

Job

2630316

Truss

J01A

Truss Type

Jack-Open

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967164

Job Reference (optional)

Lee's Summit, Missouri

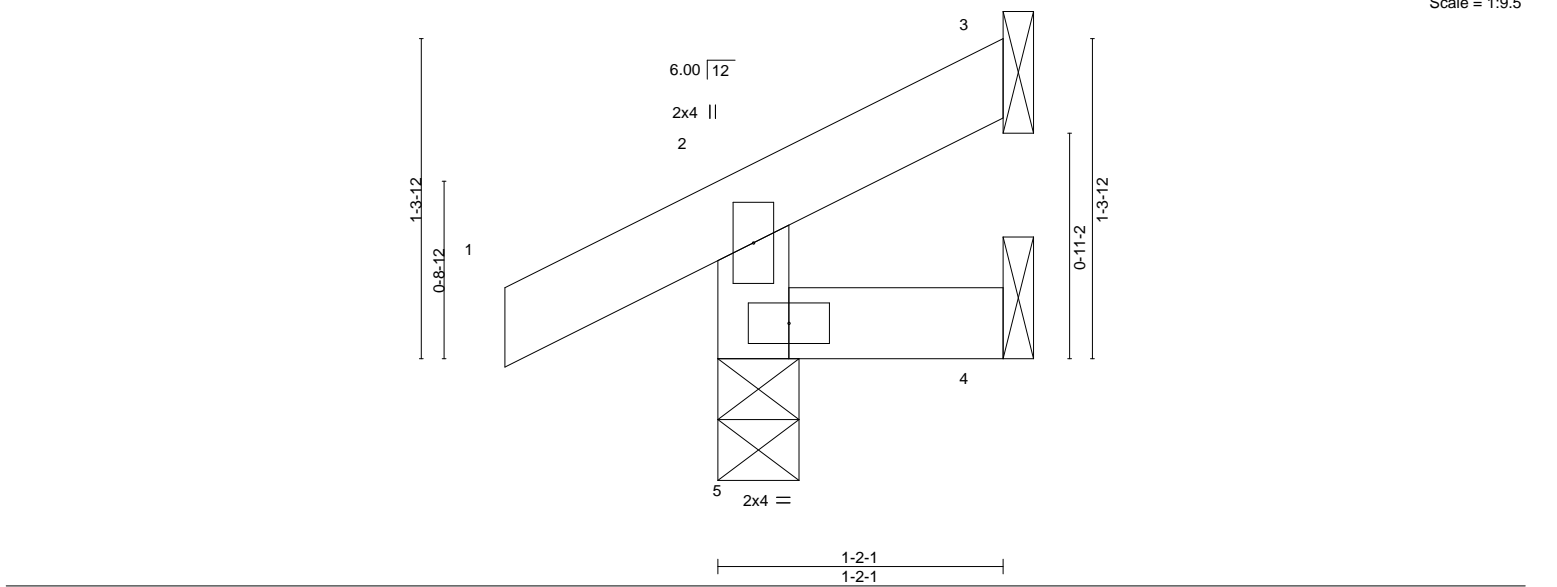
03/22/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNUP2dXvOfi1syQY8e-Jd4VtMkP1ZD9Nu0K9yy4vla6?2VUJofCR2Ef2IzhaPo

Scale = 1:9.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	5	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	5	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR					Weight: 4 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 1-2-1 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2			

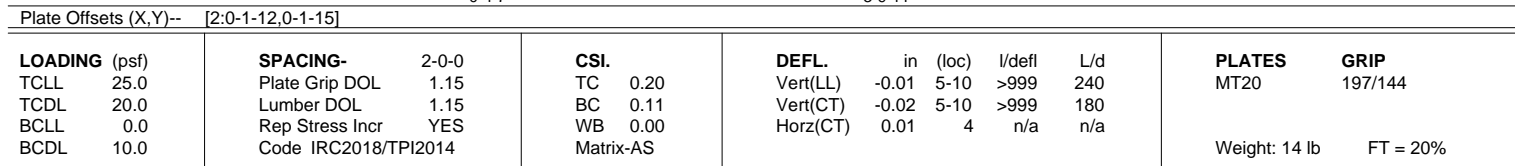
REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=30(LC 9)
Max Uplift 5=22(LC 12), 3=13(LC 12), 4=2(LC 1)
Max Grav 5=194(LC 1), 3=12(LC 19), 4=14(LC 3)

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 100 lb uplift at joint(s) 5, 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 25, 2021



REACTIONS. (size) 4=Mechanical, 2=0-6-11, 5=Mechanical
 Max Horz 2=60(LC 8)
 Max Uplift 4=-42(LC 12), 2=-71(LC 8)
 Max Grav 4=136(LC 1), 2=360(LC 1), 5=66(LC 3)

NOTES-

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

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

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2630316	Truss J02A	Truss Type Jack-Open	Qty 2	Ply 1	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc.		J44967166	
			ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-nqet4i1nsL0_2bXifUJSV7FHSpw2FvLgi_CaBzhaPn			

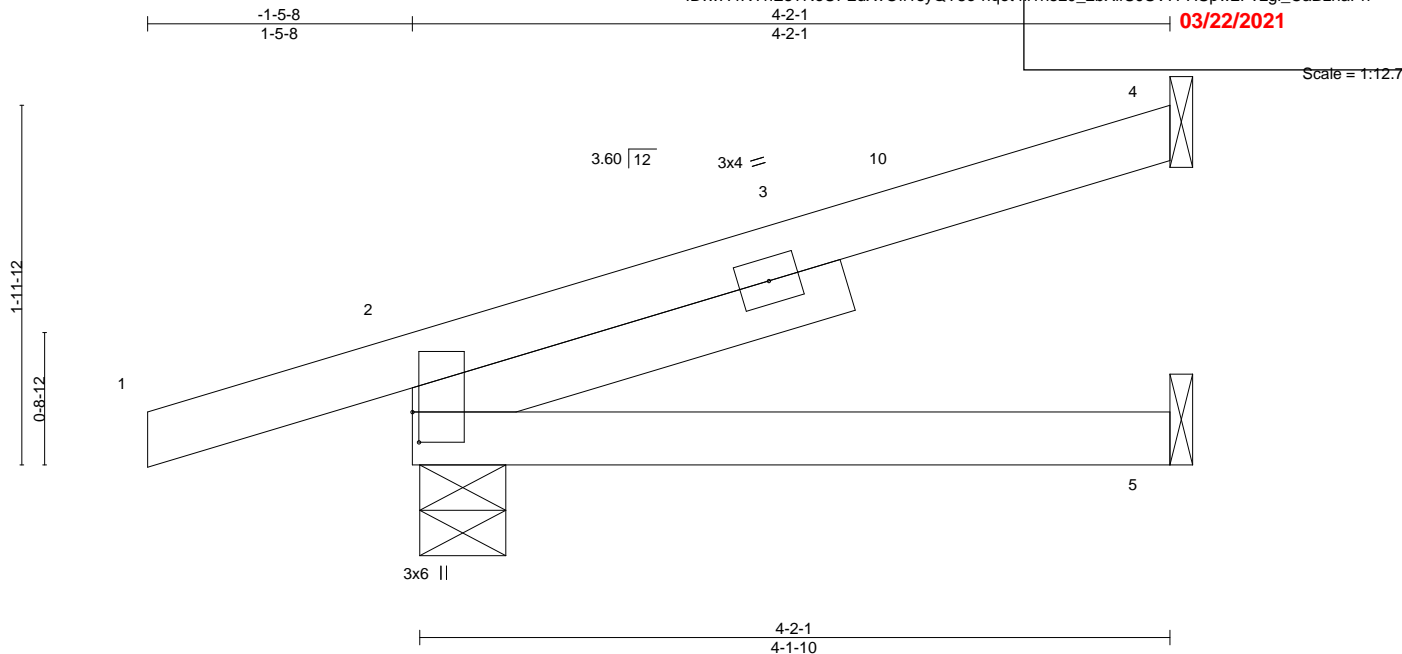


Plate Offsets (X,Y)--		[2:0-2-0,0-0-7]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25
TCDL 20.0	Lumber DOL	1.15	BC 0.14
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 5-8 >999 240
			Vert(CT) -0.03 5-8 >999 180
			Horz(CT) 0.01 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 14 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -t 2-6-0

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

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 100 lb uplift at joint(s) 4, 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 25, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION
2630316	J03	Half Hip Girder	7	1	Job Reference (optional)	AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967167
 ID:wH4RYhEstNeUP2dXvOfi1syQY8e-F0CFI2IYATtcCAjGM7Y?jgS8sANniUvMjm6ezhaPm
 Lee's Summit, Missouri
 03/22/2021

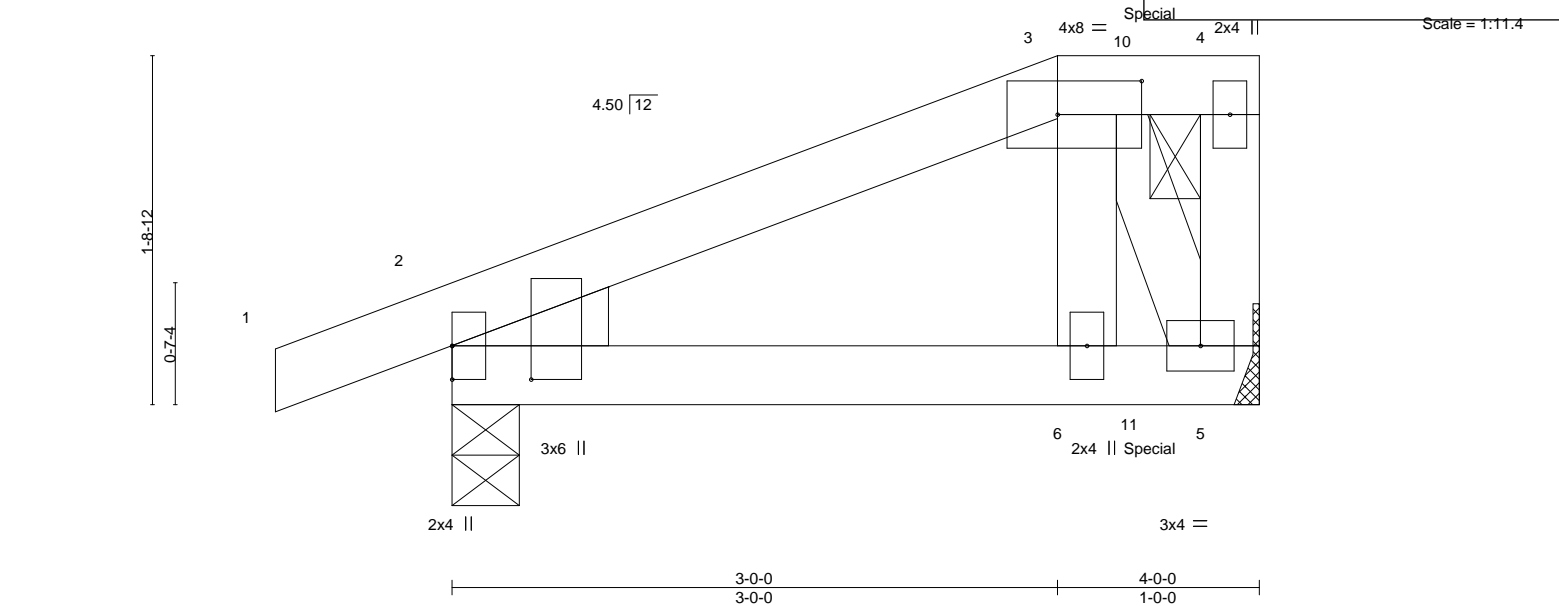


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11], [3:0-5-0,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	9	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	6-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-4-0, 5=Mechanical
	Max Horz 2=60(LC 7)
	Max Uplift 2=65(LC 4), 5=106(LC 5)
	Max Grav 2=329(LC 1), 5=427(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	3-5=-350/68

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=106.
 - 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 152 lb up at 3-5-5 on top chord, and 46 lb down at 3-5-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-30(F) 10=-220(F) 11=-4(F)



February 25, 2021

Job 2630316	Truss J03A	Truss Type Half Hip	Qty 2	Ply 1	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.430 s Feb 12 2021 MiTek Industries, Inc.		Page 1
ID: wH4RYhEsTNeUP2dXvOf1syQY8e-jCmdVOMHJUbKELVq4WnXwCbFGVbW9Oe70TJf4zhaPl			Job Reference (optional)			
-0-10-8 0-10-8			3-9-11 3-9-11			4-0-0 0-2-5

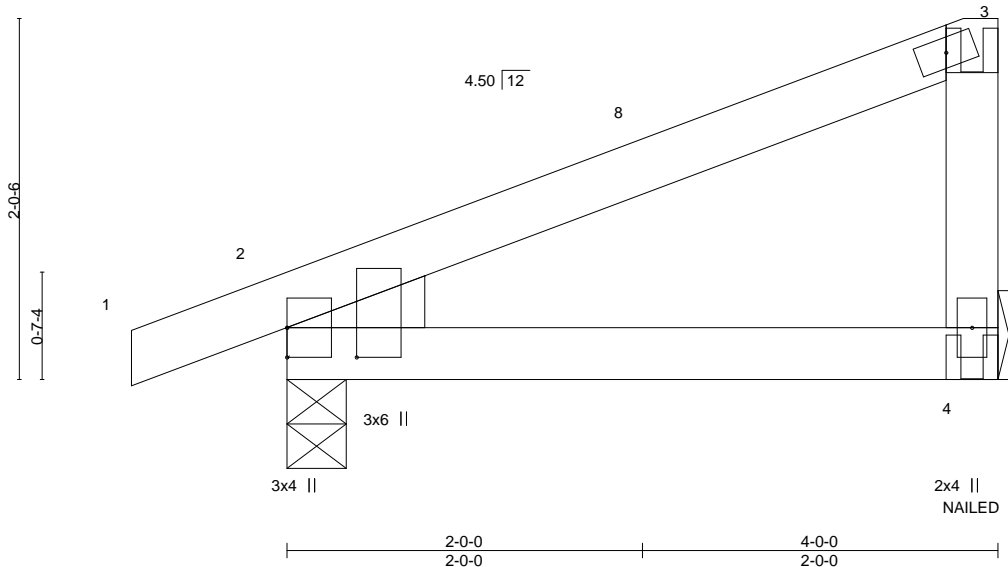


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 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 100 lb uplift at joint(s) 4, 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 guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=90, 4-5=20
 Concentrated Loads (lb)
 Vert: 3=75(F) 4=33(F)



February 25, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

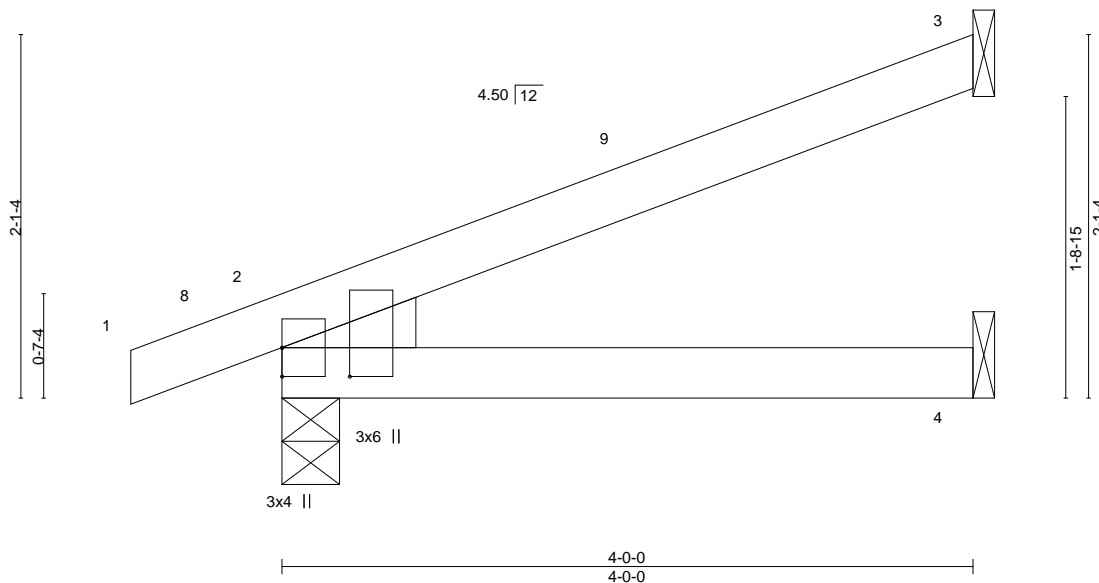


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.02	4-7	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	4-7	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 12 lb	FT = 20%	

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

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

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; TCDD=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 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.
- 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.



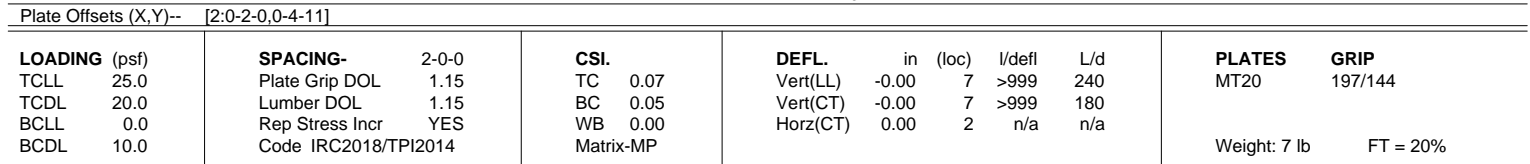
February 25, 2021



WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 167, § 9.5.2020 by ONE USE.
 Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for the building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 2-3-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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



February 25, 2021



WARNING – verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-743.3 REV. 3/19/2020 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 Code**.

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

J06

Truss Type

Jack-Open

Qty

2

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-4AZWY5qQ80E1K7tddd6yE_wS_HEsBQeNHIA4KHzaPg

Lee's Summit, Missouri

03/22/2021

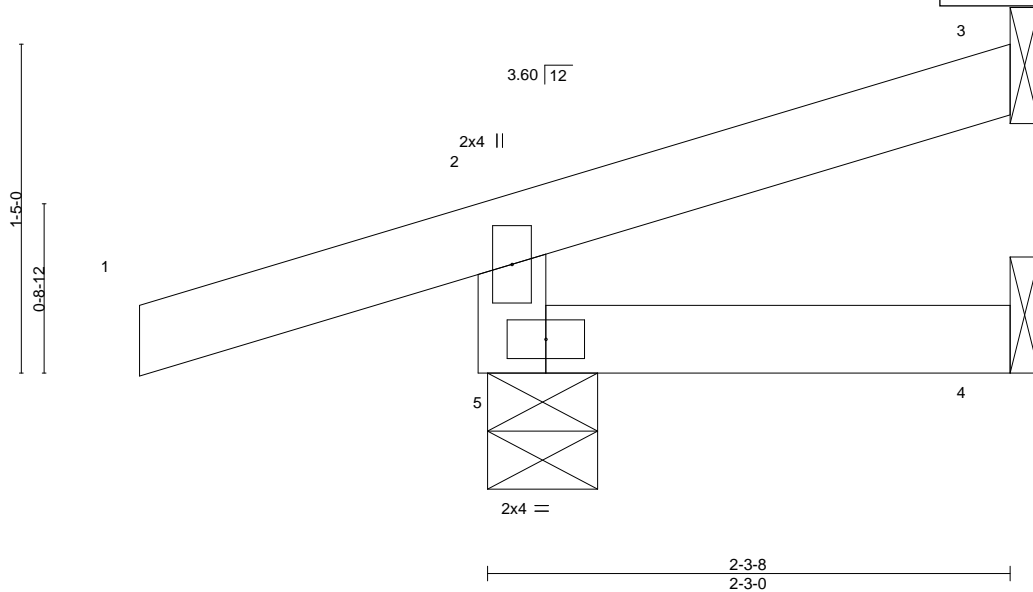
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1-5-8

1-5-8

2-3-8

2-3-8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-5-11, 3=Mechanical, 4=Mechanical
Max Horz 5=39(LC 8)
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-

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25, 2021

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

J07

Truss Type

Half Hip Girder

Qty

2

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-YM7vmRr2VKMuyGC3ALdBNBSfLhZ8wtoWVYwdszkhaPf

0-10-8

1-5-7

4-0-0

2-6-9

0-10-8

1-5-7

4-0-0

2-6-9

NAILED

4x4 =

NAILED

2x4 ||

2

6.00 | 12

1

1-5-7

1-3-14

0-3-8

0-8-12

3

8

4

2x4 ||

4

1-3-14

6

NAILED

2x4 ||

9

NAILED

5

2x4 ||

7

2x4 =

1-5-7

1-5-7

4-0-0

2-6-9

Scale = 1:10.0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2021

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 0.11	Vert(LL)	-0.00 6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01 5-6	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

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

REACTIONS.

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

Max Horz 7=45(LC 7)

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-

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) 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 100 lb uplift at joint(s) 5, 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 guidelines.

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)

STATE OF MISSOURI

ANDREW THOMAS JOHNSON

NUMBER PE-2017018993

PROFESSIONAL ENGINEER

February 25, 2021

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

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

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

MiTek

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job

2630316

Truss

J08

Truss Type

Half Hip

Qty

2

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14962173

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-YM7vmRr2vKtMuyGC3ALdBnBSeFhVYwtUWWYwdszkhaPf

03/22/2021

-0-10-8

0-10-8

2-11-7

2-11-7

4-0-0

1-0-9

4x4 =

3x4 =

3x6 ||

2x4 ||

6.00 | 12

2-2-7

2-0-14

0-8-12

2-0-14

1-9-6

2-11-7

2-11-7

4-0-0

1-0-9

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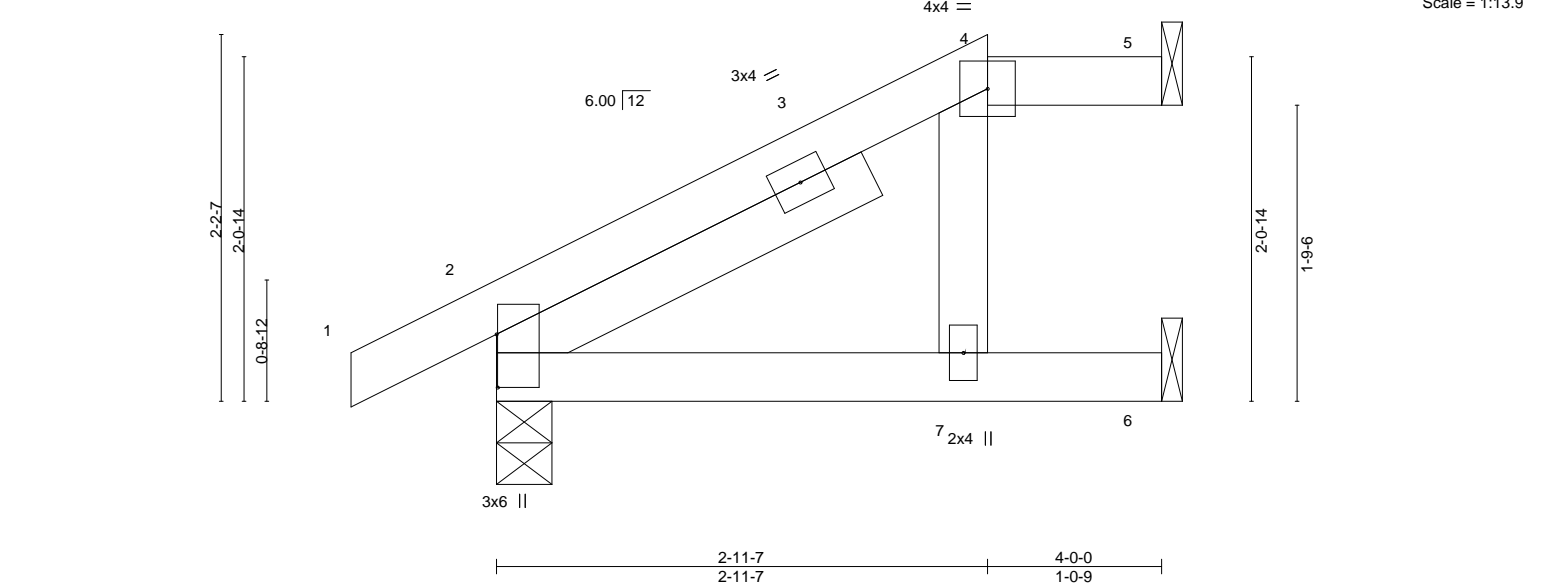


Plate Offsets (X,Y)--		[2:0-3-13,0-0-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.18	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.35	Vert(LL) 0.03 7-10 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Vert(CT) -0.05 7-10 >994 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.04 5 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 15 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins: 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 25, 2021

Job

2630316

Truss

J09

Truss Type

Jack-Open

Qty

6

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc.

Feb 12 2021 14:37:01

Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Feb 12 2021 14:37:01

Page 1

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03/22/2021

0-10-8

0-10-8

4-0-0

4-0-0

0-4-11

2-8-12

2-4-1

6.00

12

2-8-12

0-8-12

3

7

6

2

1

5

4

2x4 ||

3x4 =

4-0-0

4-0-0

Scale = 1:16.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 11 lb	FT = 20%

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

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
 Max Horz 5=79(LC 12)
 Max Uplift 5=-26(LC 12), 3=-59(LC 12)
 Max Grav 5=313(LC 1), 3=150(LC 1), 4=74(LC 3)

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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



February 25, 2021

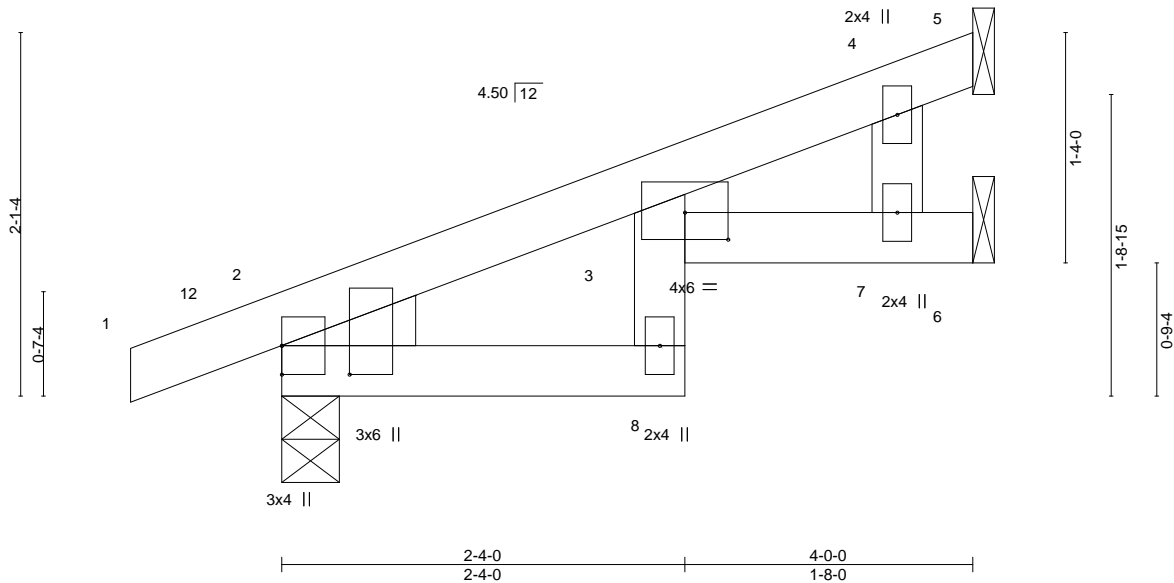


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11], [3:0-3-0,0-1-14]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	8	>999	240	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.06	8	>797	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.04	6	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 13 lb FT = 20%

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

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

(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.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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 100 lb uplift at joint(s) 5, 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 25, 2021



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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

J11

Truss Type

JACK-OPEN

Qty

5

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14962176

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-UlFfB7slRxcbBaMSIlffscYz2UDLOmNpzGPKxczhaPd

03/22/2021

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/22/2021

Scale = 1:13.3

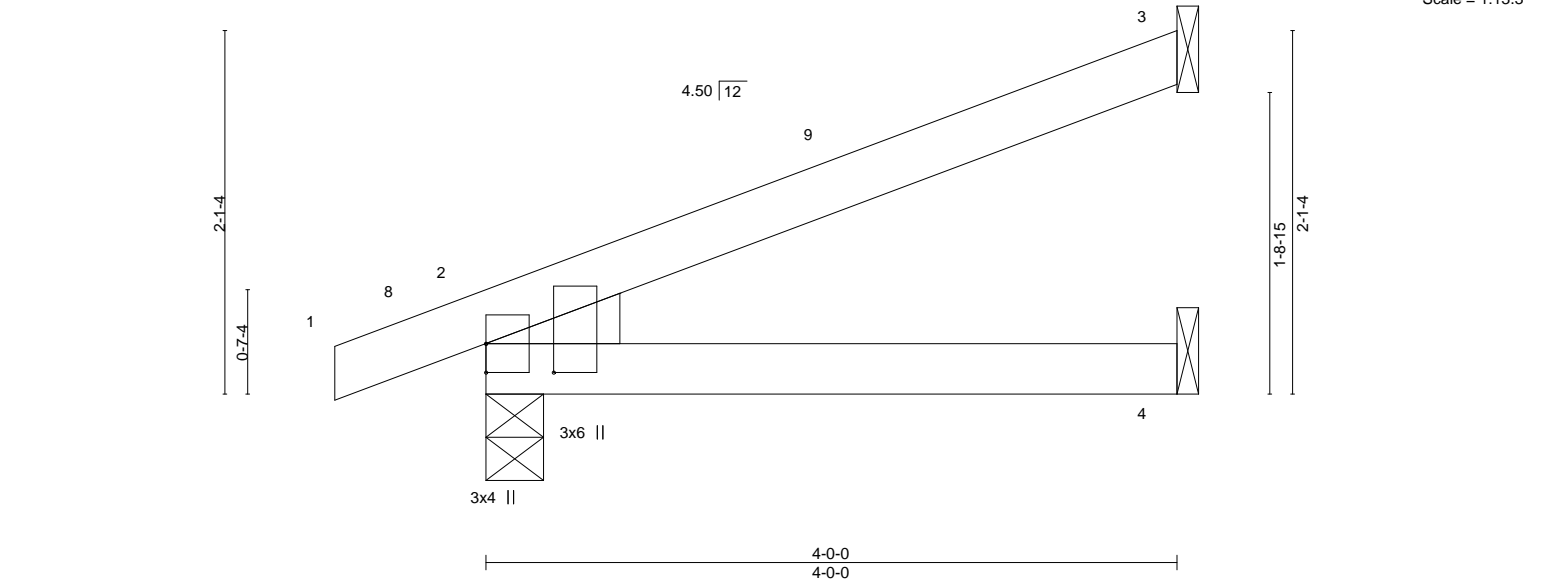


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.23
TCDL 20.0	Lumber DOL	1.15	BC 0.20
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.02 4-7 >999 240
			Vert(CT) -0.03 4-7 >999 180
			Horz(CT) 0.01 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 12 lb FT = 20%

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

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

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.

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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
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 25, 2021

Job

2630316

Truss

J12

Truss Type

Jack-Open

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

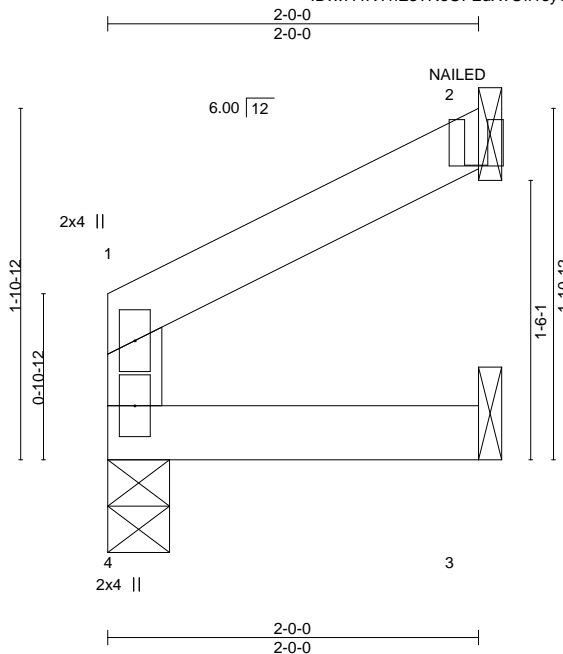
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03/22/2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

03/22/2021

Scale = 1:12.4



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 0.06	Vert(LL) -0.00 4 >999	240		MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.05	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/TPI2014	Matrix-MR				Weight: 5 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz 4=33(LC 9)
Max Uplift 2=63(LC 12), 3=-1(LC 12)
Max Grav 4=101(LC 1), 2=173(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 100 lb uplift at joint(s) 2, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 2=-96(F)



February 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION

ridge 40/mo
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT MISSOURI
Strategies, Inc. 600 South Main Street Suite 420 St. Louis, MO 63102-1798
UA6t1gBfDXbk0SigaxdxKaNPuNy4NzhaPZ
03/22/2021



Weight: 10 lb FT = 20%

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 2=0-4-0, 5=Mechanical, 3=Mechanical
 Max Horiz 2=56(LC 12)
 Max Uplift 2=-27(LC 33), 3=-81(LC 12)
 Max Grav 2=189(LC 1), 5=33(LC 3), 3=223(LC 1)

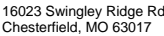
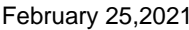
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown

NOTES-

- (1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- (2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- (3) Refer to girder(s) for truss to truss connections.
- (4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- (5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- (6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- (7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 5-6=-20
Concentrated Loads (lb)
Vert: 4=-95(B)



Job

2630316

Truss

J15

Truss Type

Jack-Open

Qty

2

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. See 314348422011

Job Reference (optional)

LE'S SUMMIT MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-MWUA0VvpUA61gBfDXbkb0Siel5bBKaNpuuNy4NzhaPZ

03/22/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/22/2021

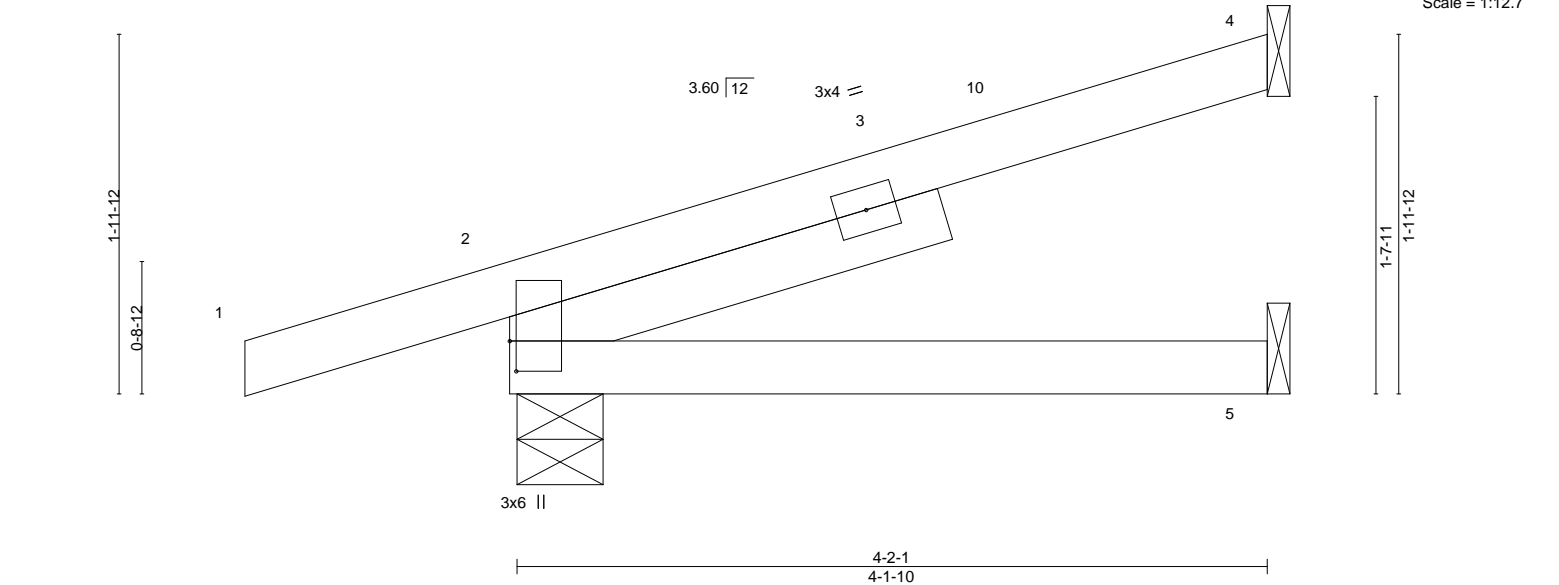


Plate Offsets (X,Y)--		[2:0-2-0,0-0-7]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25
TCDL 20.0	Lumber DOL	1.15	BC 0.14
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 5-8 >999 240
			Vert(CT) -0.03 5-8 >999 180
			Horz(CT) 0.01 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 14 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0		

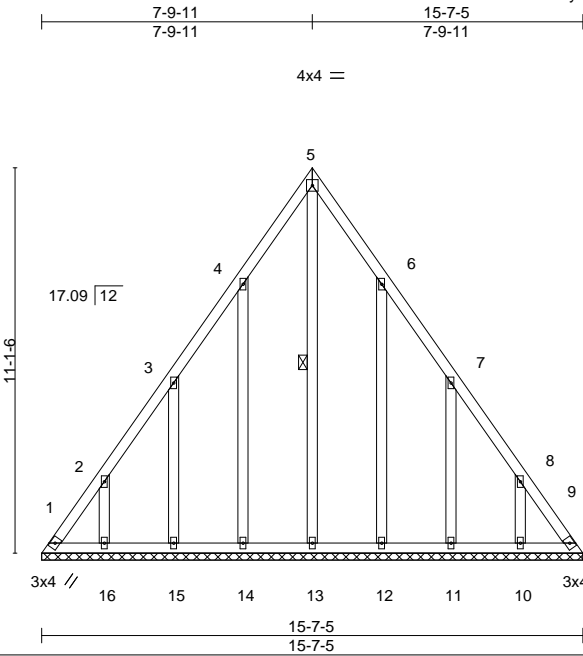
REACTIONS.		(size) 4=Mechanical, 2=0-5-11, 5=Mechanical
		Max Horz 2=67(LC 8)
		Max Uplift 4=-46(LC 12), 2=-84(LC 8)
		Max Grav 4=152(LC 1), 2=381(LC 1), 5=72(LC 3)

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 100 lb uplift at joint(s) 4, 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 25, 2021



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 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 93 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 15-7-5.
(lb) - Max Horz 1=277(LC 8)
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.
TOP CHORD 1-2=-438/297, 2-3=-272/207, 8-9=-413/297
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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 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
 - 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 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 25, 2021

Job 2630316	Truss LG2	Truss Type GABLE	Qty 1	Ply 1	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMER, MISSOURI 03/22/2021
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.430 s Feb 12 2021 MiTek Industries, Inc. Feb 13 2021		Job Reference (optional) ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-4R5y7v148ENctkQ86ivxQZ7O0719g6LtBRoTQozhaPP

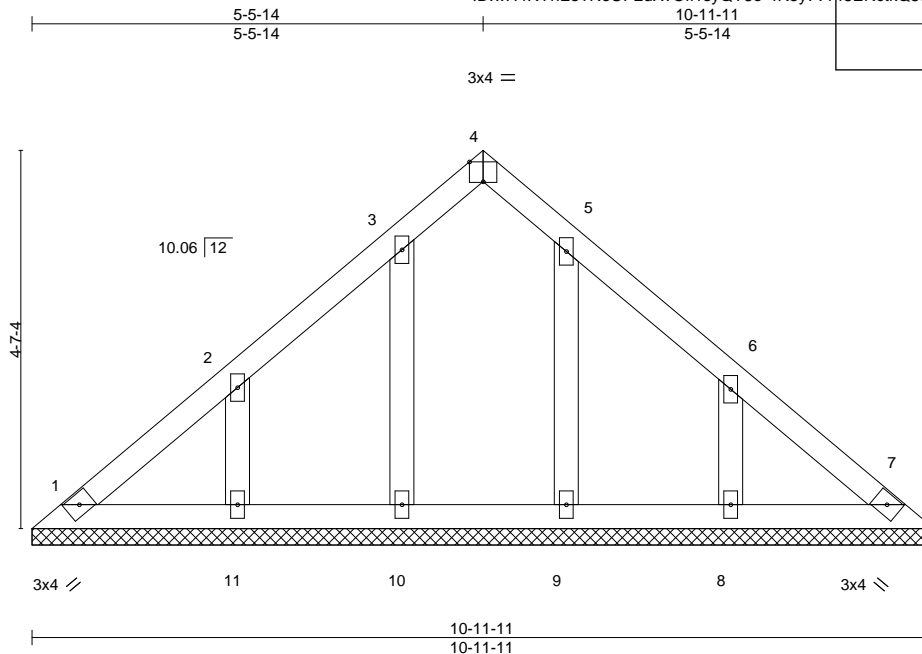


Plate Offsets (X,Y)--		[4:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 20.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 39 lb FT = 20%

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

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

REACTIONS. All bearings 10-11-11.
 (lb) - Max Horz 1=100(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 10 except 8=107(LC 13), 11=106(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10 except 8=272(LC 20), 11=272(LC 19)

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

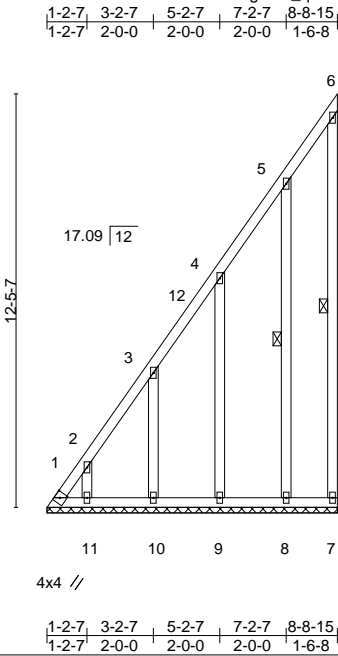
NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-14, Exterior(2R) 5-5-14 to 8-6-0,
 Interior(1) 8-6-0 to 10-6-14 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) 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) 9, 10 except
 (jt=lb) 8=107, 11=106.
 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 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017



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 0.15	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

WEBS 1 Row at midpt 6-7, 5-8

REACTIONS.

All bearings 8-8-15.

(lb) - 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), 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.

TOP CHORD 1-2=-782/679, 2-3=-614/553, 3-4=-409/386

WEBS 3-10=-283/236, 4-9=-283/202, 5-8=-253/181

- 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) 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 25,2021

Job 2630316	Truss LG04	Truss Type GABLE	Qty 1	Ply 1	2630316/woodside ridge 40/mo
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 16 Feb 12 2021 Missouri		
ID:3seZTgShN_qvhelqPBpz4myNXMX-JvcwRAx30nMlvPbe0m36to0pvJ9oU4iLBs28GzhaPX			Job Reference (optional)		
6-3-3 6-3-3			12-6-6 6-3-3		
3x4 =			Scale: 3/8"=1'		

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/22/2021

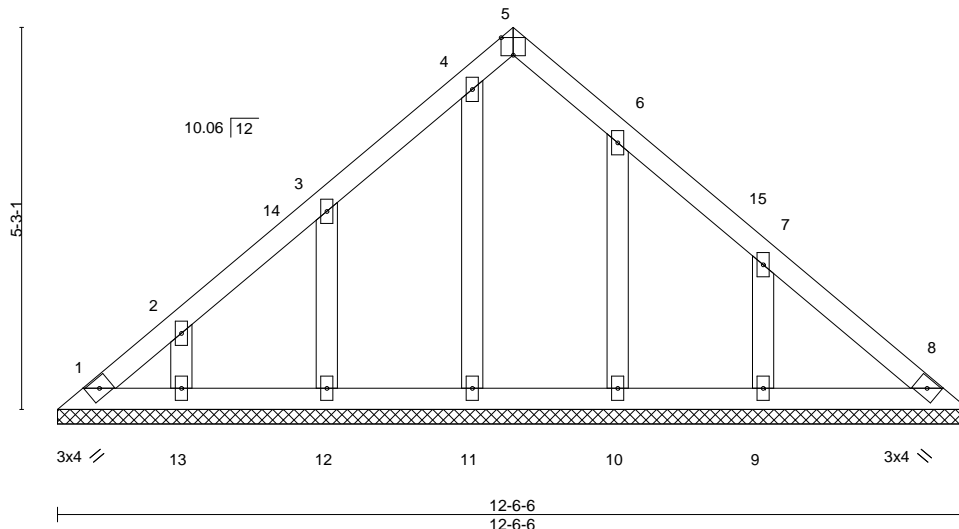


Plate Offsets (X,Y)--		[5:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08
TCDL 20.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 8 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 47 lb FT = 20%

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

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; TC DL=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 (jt=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.



February 25, 2021

Job 2630316	Truss LG05	Truss Type GABLE	Qty 1	Ply 1	2630316/woodside ridge 40/mo
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. Feb 12 2021 Missouri		
			Job Reference (optional)		
			ID:3seZTgShN_qvheIqPBpz4myNXMX-n5AlfWyhn5UcXfOoCkHle5KBiJfaXxfrarbcgizhaPW		
			03/22/2021		

Scale = 1:25.9

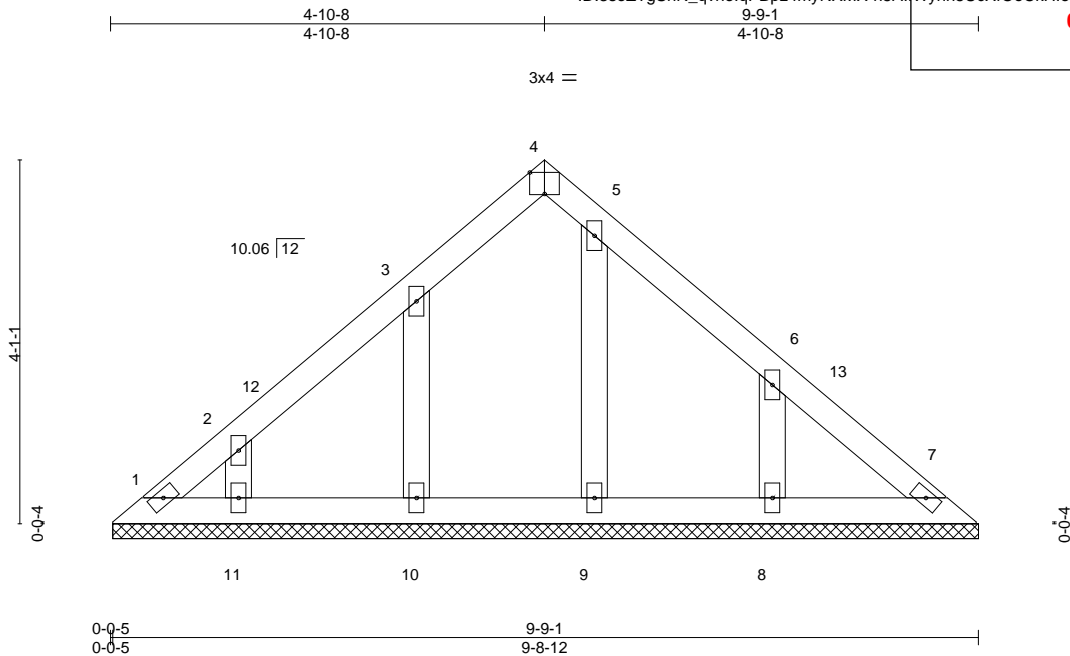


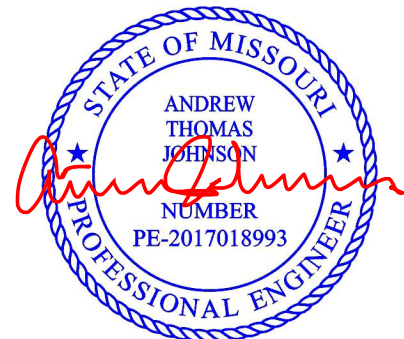
Plate Offsets (X,Y)--		[4:0-2-0,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S				Weight: 33 lb	FT = 20%

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

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.

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 3-5-4, 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 (jt=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 25,2021

Job

2630316

Truss

LG06

Truss Type

GABLE

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. Job Reference (optional)

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

J44967186

Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-FHkhsszJYOcT9pz_mRoXBtLBj_tGLj?pvL9D9zhaPV

Scale = 1:73.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 68 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2		WEBS	1 Row at midpt 6-7, 5-8
OTHERS 2x4 SPF No.2			

REACTIONS. All bearings 9-3-3.
 (lb) - Max Horz 1=451(LC 12)
 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

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) 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 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

2630316

Truss

LG07

Truss Type

Lay-In Gable

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. for Lee's Summit, MO

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-FHksszJYOct9pz_mRoXBltJHjzfGMH?pVL9D9zhaPV

03/22/2021

RELEASE FOR CONSTRUCTION

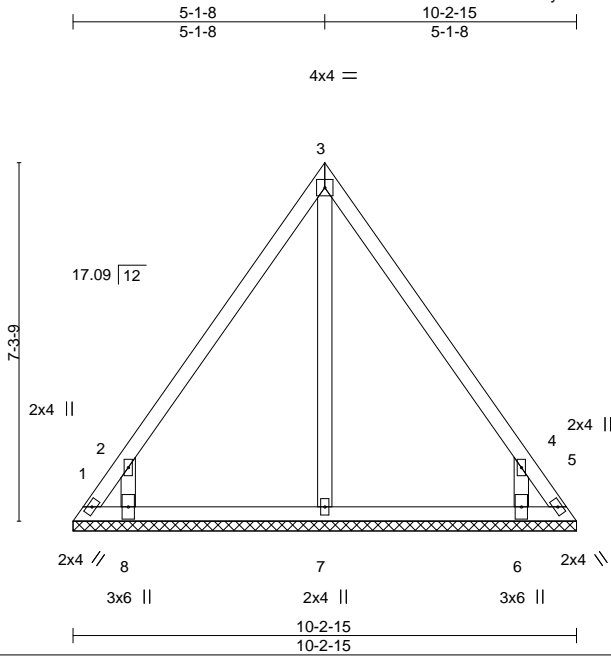
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

Scale = 1:46.9



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 0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 41 lb	FT = 20%

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

REACTIONS. All bearings 10-2-15.
(lb) - Max Horz 1=178(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-245(LC 10), 5=-223(LC 11), 8=-393(LC 12), 6=-392(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 7 except 1=325(LC 12), 5=311(LC 13), 8=561(LC 19), 6=560(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-374/286, 2-3=-279/116, 3-4=-262/100, 4-5=-358/286
WEBS 2-8=-590/445, 4-6=-590/445

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 5-1-8, Exterior(2R) 5-1-8 to 8-1-8, Interior(1) 8-1-8 to 9-11-9 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) 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 245 lb uplift at joint 1, 223 lb uplift at joint 5, 393 lb uplift at joint 8 and 392 lb uplift at joint 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25,2021

Job

2630316

Truss

LG08

Truss Type

GABLE

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

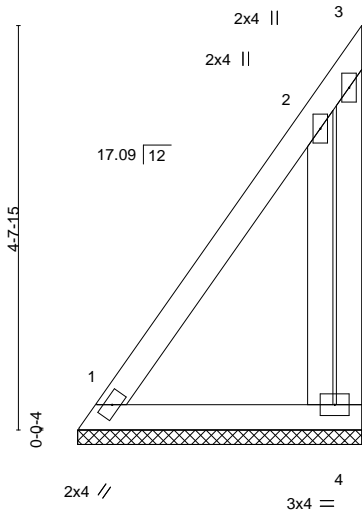
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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03/22/2021

Scale = 1:26.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	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	YES	WB 0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 1=3-3-5, 4=3-3-5
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

- 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
 - 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 35 lb uplift at joint 1 and 102 lb uplift at joint 4.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo
2630316	LG09	Lay-In Gable	1	1	

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967189

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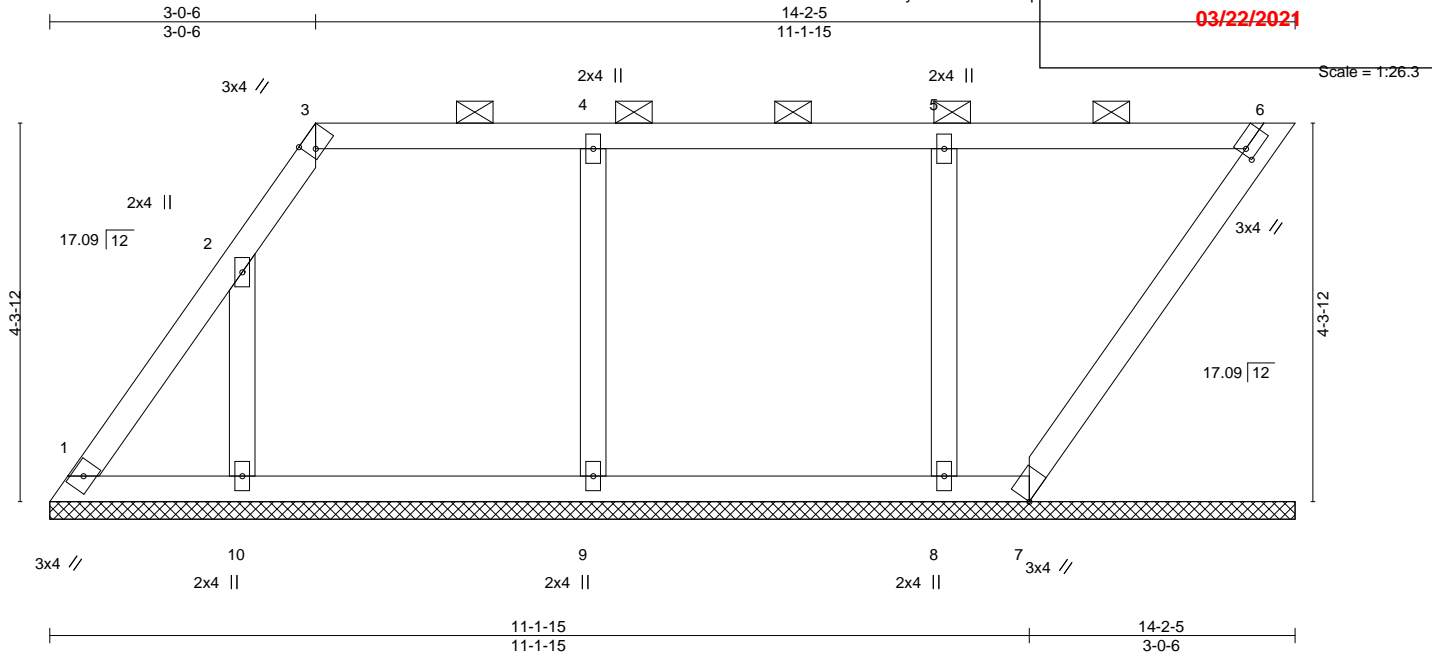


Plate Offsets (X,Y)-- [3:0-1-2,Edge], [6:0-0-12,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 48 lb	FT = 20%		

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-2-5.

(lb) - Max Horz 1=147(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7, 8, 9 except 10=151(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 6=268(LC 1), 8=437(LC 1), 9=433(LC 26), 10=285(LC 19)

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

WEBS 5-8=-384/104, 4-9=-348/96

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-0-6, Exterior(2R) 3-0-6 to 6-2-5, Interior(1) 6-2-5 to 13-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7, 8, 9 except (jt=lb) 10=151.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.



February 25, 2021

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

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

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

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

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

V1

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-JA8L0_8k07VLS6cs85Z2IT7tzl4FHAGCGLTSFnzhaPG

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

5-1-7

5-1-7

10-2-14

5-1-7

Scale = 1:16.2

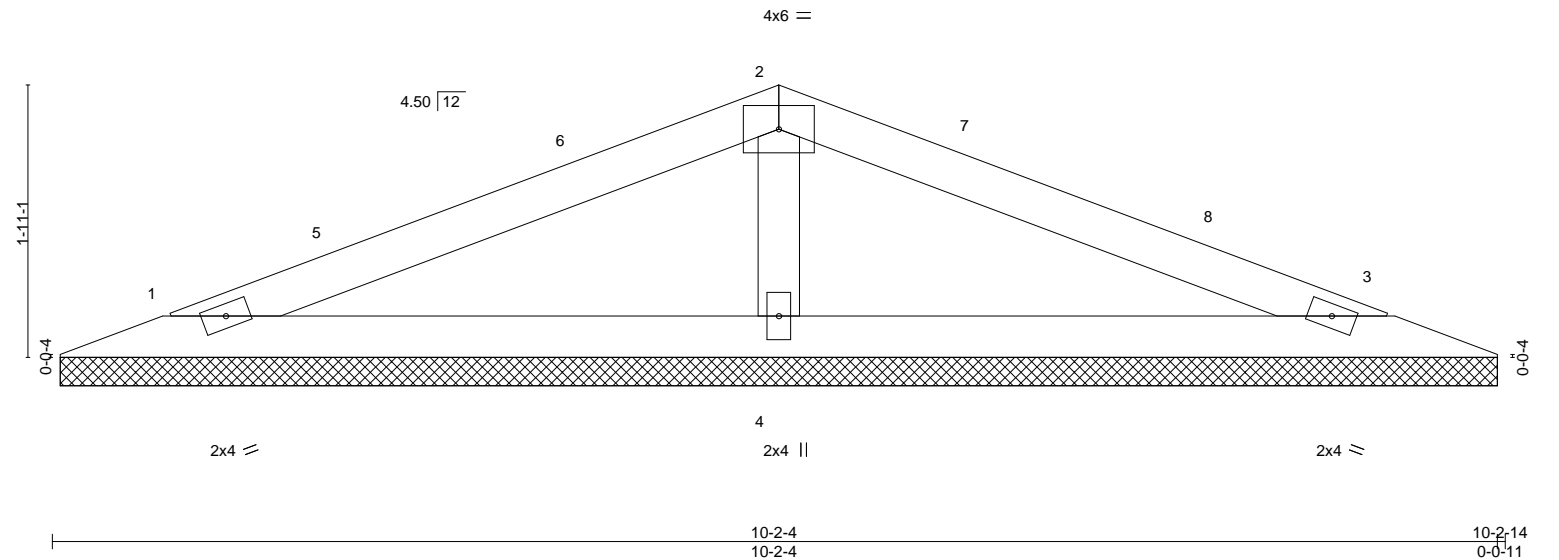
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 24 lb		FT = 20%	

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

REACTIONS.	
(size)	1=10-1-9, 3=10-1-9, 4=10-1-9
Max Horz	1=26(LC 12)
Max Uplift	1=-33(LC 12), 3=-38(LC 13), 4=-37(LC 8)
Max Grav	1=211(LC 25), 3=211(LC 26), 4=531(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
WEBS	2-4=-394/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-1 to 3-10-1, Interior(1) 3-10-1 to 5-1-7, Exterior(2R) 5-1-7 to 8-1-7, Interior(1) 8-1-7 to 9-4-14 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25, 2021

Job

2630316

Truss

V2

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-nMikDK9MhJdC4GB3io5HggX6k9RA0dJLU?D?nDzhaPF

03/22/2021

2-5-7

2-5-7

3x4 =

4-10-14

2-5-7

Scale = 1:9.1

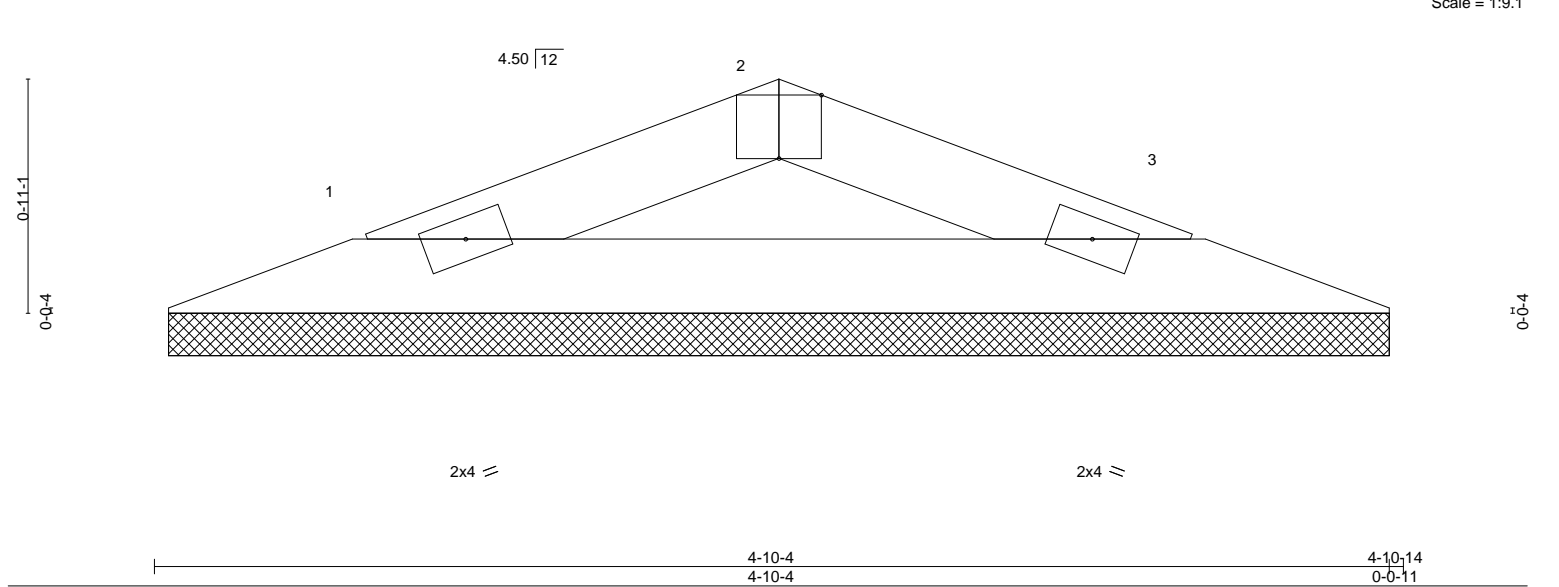


Plate Offsets (X,Y)--		[2:0-2:0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 9 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

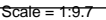
REACTIONS.	
(size)	1=4-9-9, 3=4-9-9
Max Horz	1=10(LC 12)
Max Uplift	1=-19(LC 12), 3=-19(LC 13)
Max Grav	1=178(LC 1), 3=178(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25,2021



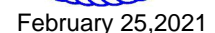
Weight: 9 lb FT = 20%

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

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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.



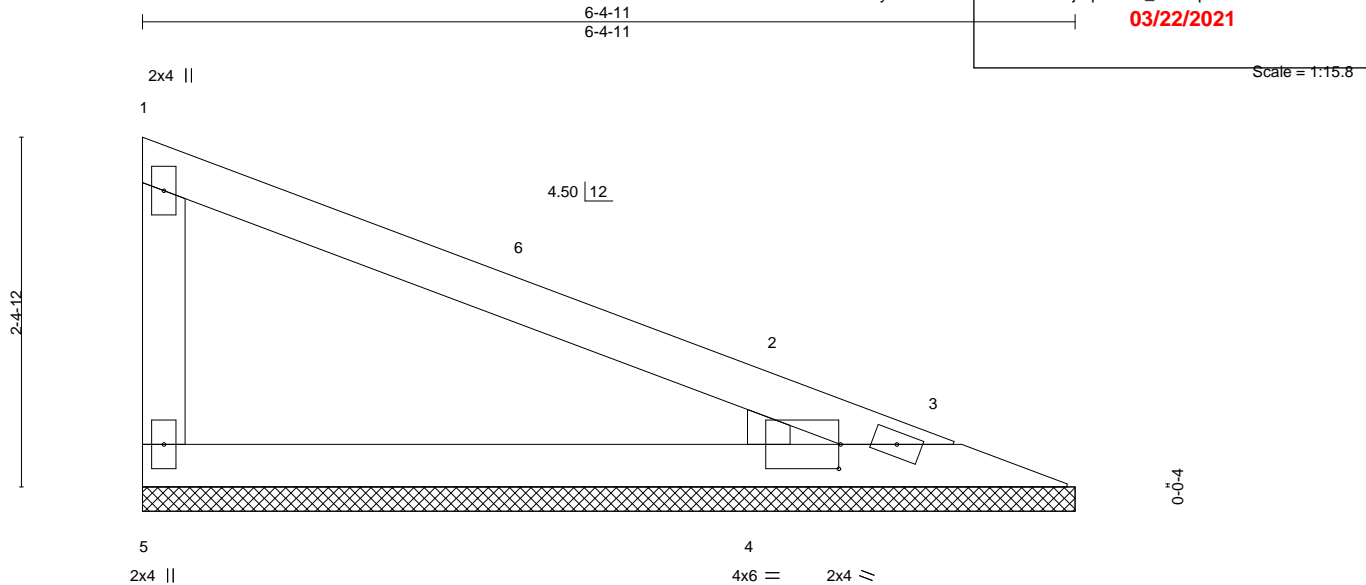


Plate Offsets (X,Y)-- [4:0-0-2,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

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

REACTIONS. (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; and 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.



February 25, 2021



WARNING – verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-743 Rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI-1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Cran Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

V05

Truss Type

VALLEY

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 14967194

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-yCKTzH4bBT2LLkvLX_ttbPH0FkNWcvxT63mhZazhaPL

03/22/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

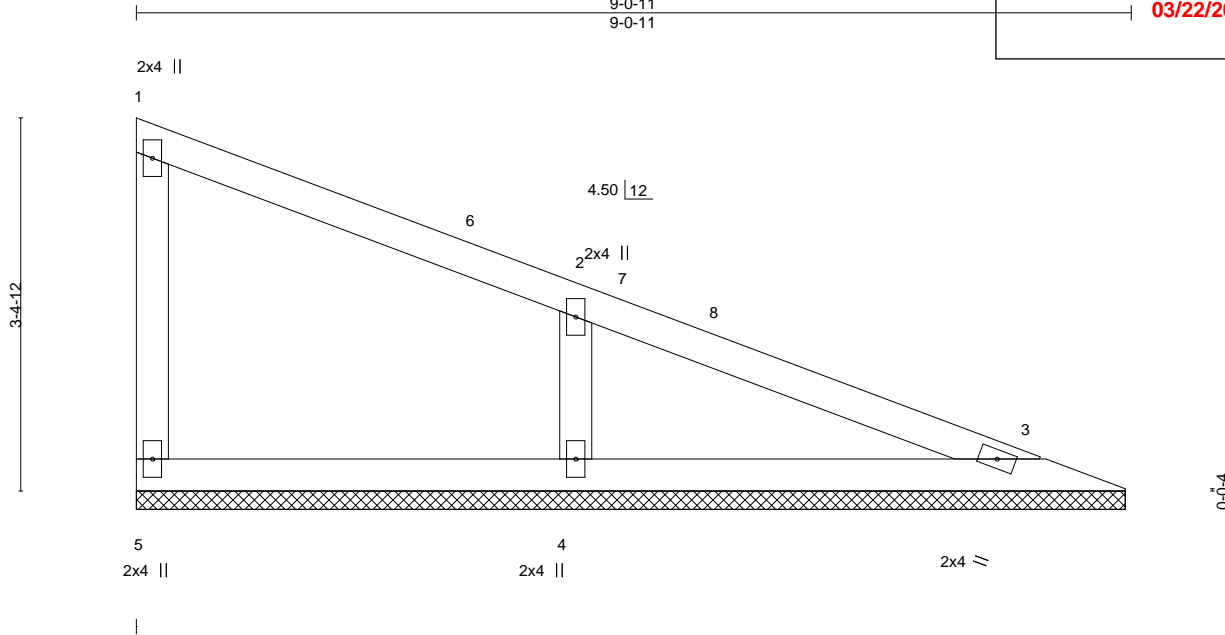
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

9-0-11

9-0-11

Scale = 1:21.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 25 lb	FT = 20%

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

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

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.



February 25, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

V06

Truss Type

VALLEY

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-yCKTzH4bBT12LLkvLX_tbPH3hkNlcqvT63mhZazhaPL

5-3-14

2-7-15

2-7-15

2-7-15

3x4 =

Scale = 1:11.1

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AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021

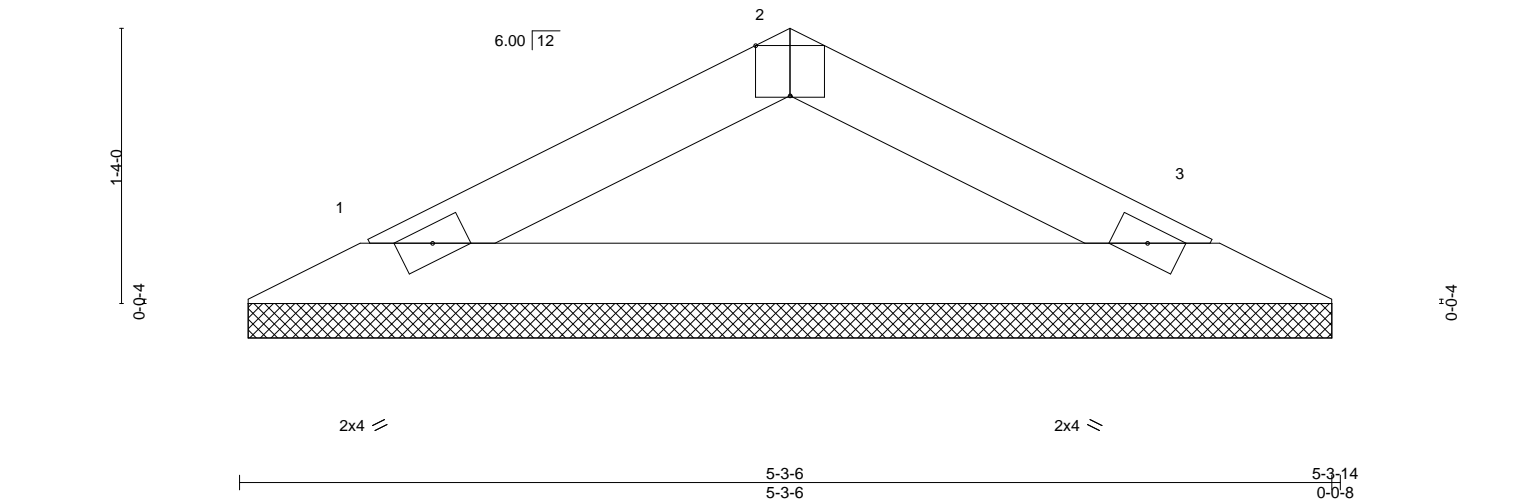


Plate Offsets (X,Y)--		[2:0-2:0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P						Weight: 11 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-14 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(size)	1=5-2-14, 3=5-2-14
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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25, 2021

Job

2630316

Truss

V07

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-ubSDNz6rj47mbfulTyOLgqNM1Y3Q4pkmZNFoeSzhaPJ

03/22/2021

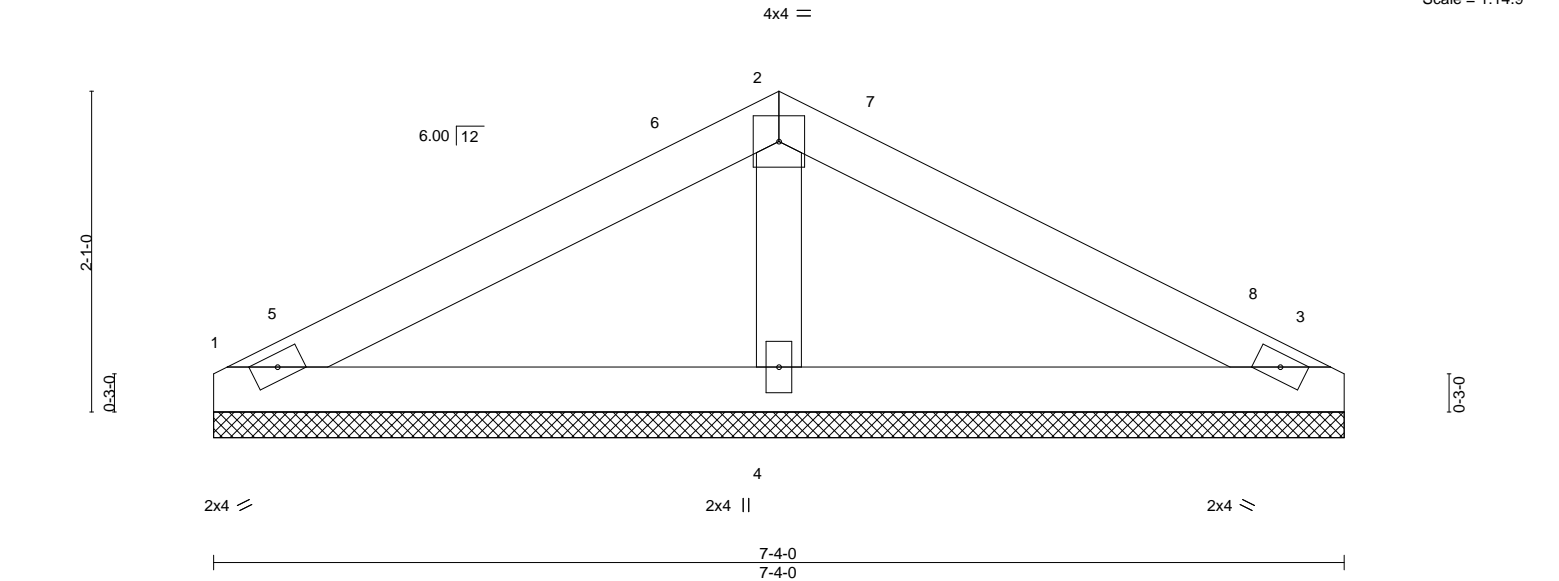
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/22/2021

Scale = 1:14.9



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 0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 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		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 19 lb	FT = 20%

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

REACTIONS.	(size)	1=7-4-0, 3=7-4-0, 4=7-4-0
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.
WEBS	2-4=-286/145

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25,2021

Job

2630316

Truss

V08

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. for 2630316

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-r_azof75FiNUqy1gaN2plFSj1ML_YJD21hkviLzhaPH

3-8-0

3-8-0

7-4-0

3-8-0

4x4 =

2-10-0

1-0-0

1-0-0

Scale = 1:19.0

RELEASE FOR

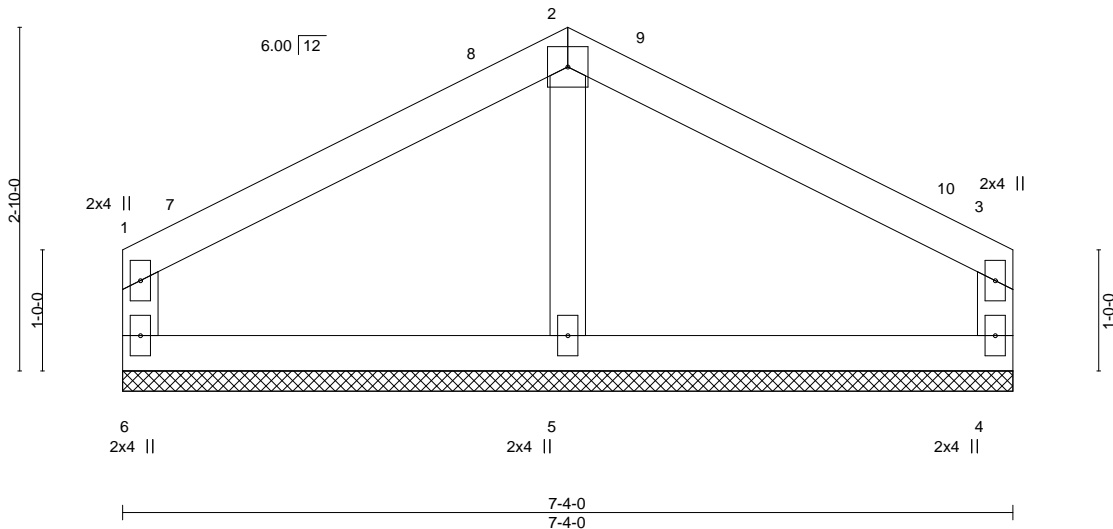
CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/22/2021



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 22 lb	FT = 20%

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

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

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)
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.

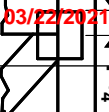
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 25, 2021

Symbols

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



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

4 X 4

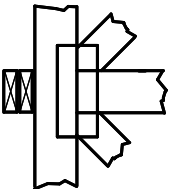
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



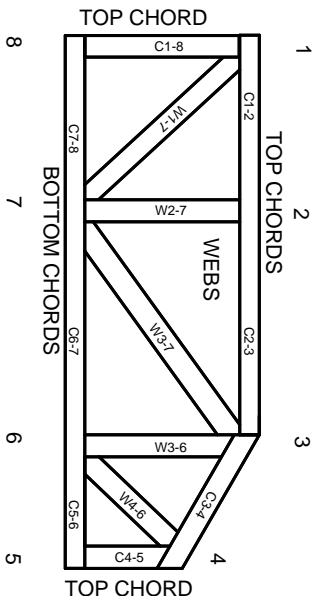
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.