



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

02/17/2021

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: I44677334 thru I44677419

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

Missouri COA: Engineering 001193



Scott Sevier

February 5, 2021

Sevier, Scott, Engineer

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

Job

2630316

Truss

A01

Truss Type

Hip Girder

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEIS 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 AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

02/17/2021

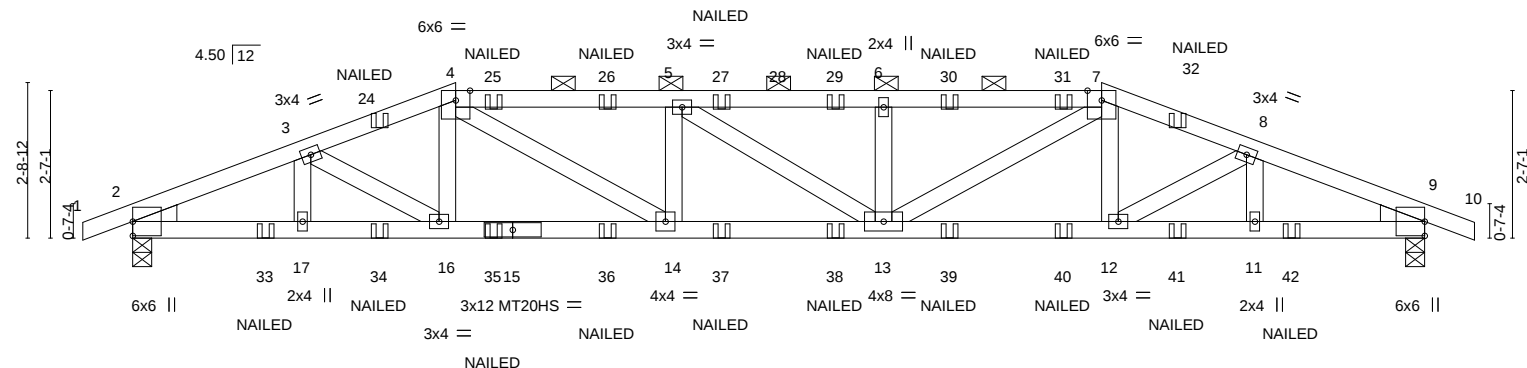


Plate Offsets (X,Y)--		[2:0-0-0,0-6-3], [9:0-0-0,0-6-3]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.63
TCDL 10.0	Lumber DOL	1.15	BC 0.82
BCLL 0.0	Rep Stress Incr	NO	WB 0.26
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.20 13-14 >999 240
			Vert(CT) -0.37 13-14 >744 180
			Horz(CT) 0.08 9 n/a n/a
			PLATES GRIP
			MT20 197/144
			MT20HS 148/108
			Weight: 89 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-2 oc purlins, except
BOT CHORD	2x4 SPF 1650F 1.5E	BOT CHORD	2-0-0 oc purlins (2-8-13 max.): 4-7.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied or 8-2-0 oc bracing.
WEDGE			
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2			

REACTIONS.	
(size)	2=0-4-0, 9=0-4-0
Max Horz	2=37(LC 8)
Max Uplift	2=-357(LC 4), 9=-357(LC 5)
Max Grav	2=1551(LC 1), 9=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2877/651, 3-4=-2919/671, 4-5=-3592/841, 5-6=-3585/838, 6-7=-3588/839, 7-8=-2920/671, 8-9=-2877/652
BOT CHORD	2-17=-584/2623, 16-17=-584/2623, 14-16=-591/2740, 13-14=-783/3588, 12-13=-564/2741, 11-12=-556/2623, 9-11=-556/2623
WEBS	3-16=-36/252, 4-14=-252/1052, 5-14=-443/184, 6-13=-416/177, 7-13=-250/1047, 8-12=-37/253

- 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 100 lb uplift at joint(s) except (jt=lb) 2=357, 9=357.
 - 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=-70, 4-7=-70, 7-10=-70, 18-21=-20	

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

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

SCOTT M. SEVIER

PROFESSIONAL ENGINEER

PE-2001018807

February 5, 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 02/17/2021
2630316	A01	Hip Girder	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. See 2017-2018 Page 1		
ID:wH4RYhEstNeUP2dXvOfi1syQY8e-HVSf0cber?CZK3Rx_LXw_CHi_9yihHSM8Vyy9zoW_D						
LOAD CASE(S) Standard						
Concentrated Loads (lb)						
Vert: 25=-47(B) 26=-47(B) 27=-47(B) 29=-47(B) 30=-47(B) 31=-47(B) 33=-141(B) 34=-116(B) 35=-24(B) 36=-24(B) 37=-24(B) 38=-24(B) 39=-24(B) 40=-24(B) 41=-116(B) 42=-141(B)						

Job

2630316

Truss

A02

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEStNeUP2dXvOfi1syQY8e-lh01EybgCjKQxD08Y239XQqulYLCQmKbboEVUbzoW_C

22-8-9

4-3-12

0-10-8

0-10-8

4-3-12

8-4-0

14-4-0

18-4-4

22-8-9

23-6-8

0-10-8

0-10-8

4-3-12

8-4-0

14-4-0

18-4-4

22-8-9

23-6-8

0-10-8

Job Reference (optional)

LEE'S SUMMIT 23 MISSOURI

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:40.4

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 0.53	Vert(LL)	-0.12 9-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.21 9-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.06 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 82 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 (3-9-5 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-4-0, 7=0-4-0
Max Horz	2=-54(LC 17)
Max Uplift	2=-180(LC 8), 7=-180(LC 9)
Max Grav	2=1081(LC 1), 7=1081(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2007/325, 3-4=-1789/280, 4-5=-1650/287, 5-6=-1788/280, 6-7=-2007/325
BOT CHORD	2-11=-280/1819, 9-11=-173/1650, 7-9=-244/1819
WEBS	4-11=0/293, 5-9=0/293

NOTES-

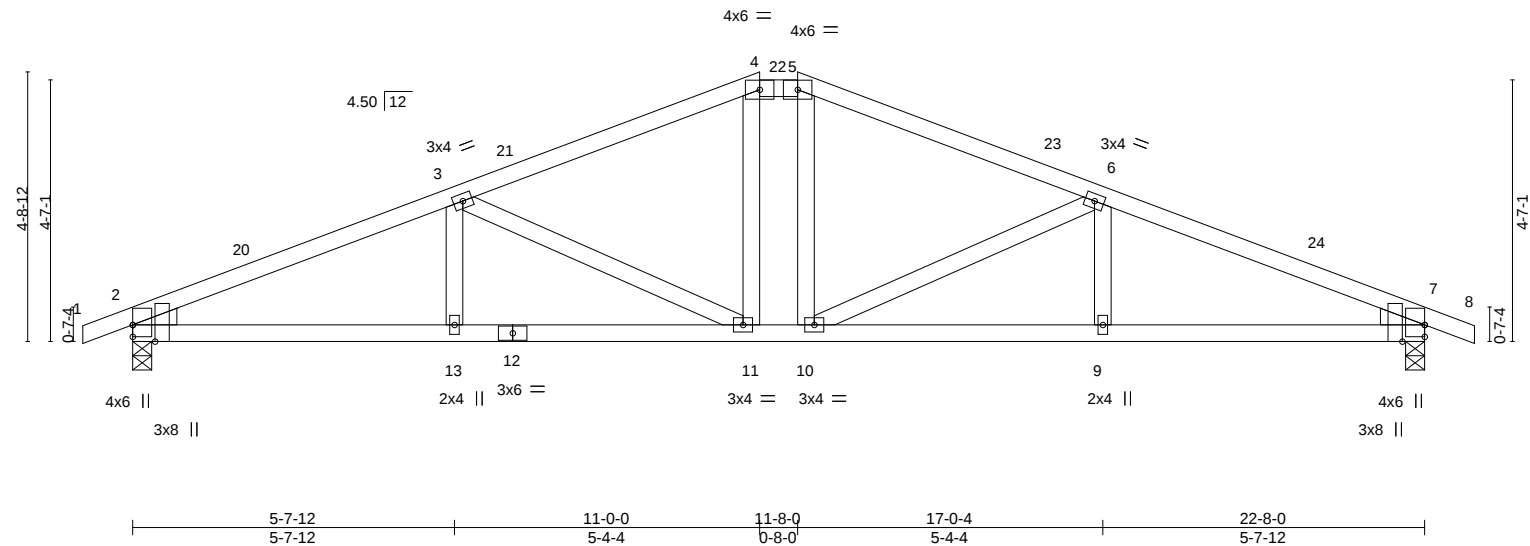
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-0, Exterior(2R) 8-4-0 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
- 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) 2=180, 7=180.
- This truss 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 5,2021

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

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 02/17/2021
2630316	A03	Hip	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc.			
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						
						Scale = 1:40.4



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 0.37	Vert(LL)	-0.10	9-10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.19	9-10	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 84 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 (4-9-0 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

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=1081(LC 1), 7=1081(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2004/264, 3-4=-1518/231, 4-5=-1358/234, 5-6=-1518/231, 6-7=-2004/264
BOT CHORD	2-13=-250/1814, 11-13=-250/1814, 10-11=-104/1358, 9-10=-190/1814, 7-9=-190/1814
WEBS	3-11=-570/167, 4-11=-23/283, 5-10=-23/283, 6-10=-570/167

- 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 11-0-0, 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
 - 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=163, 7=163.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5, 2021

Job

2630316

Truss

A04

Truss Type

ROOF SPECIAL GIRDER

Qty

1

Ply

2

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-5fqWHPQryj2_u5KceKETXevZ_G5sDKk4yG9pzoW_7

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02/17/2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

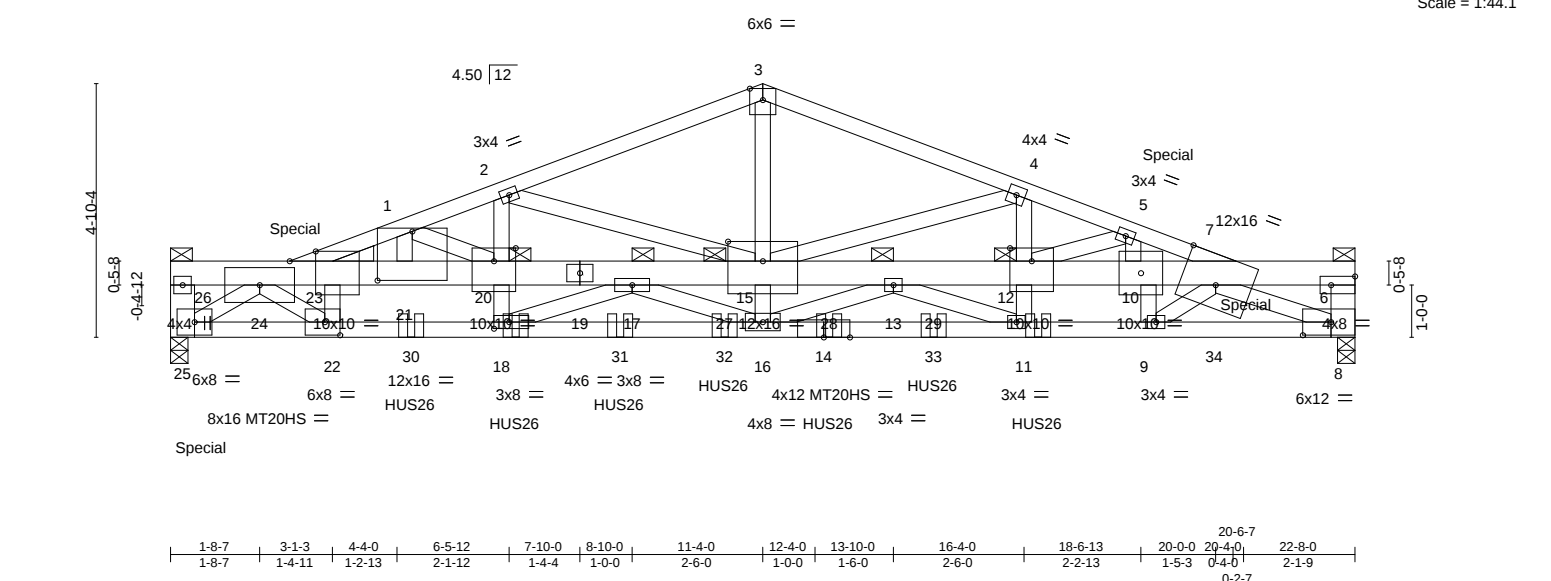


Plate Offsets (X,Y)--		[6:Edge,0-2-0], [7:0-8-0,Edge], [8:0-6-8,0-3-0], [12:0-5-0,0-3-0], [15:0-8-0,0-4-8], [18:0-3-8,0-1-8], [20:0-5-0,0-3-0], [21:0-1-12,0-0-0], [21:0-8-0,0-11-4], [22:0-3-8,0-3-0], [23:0-6-0,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	2-0-0	TC	0.99	Vert(LL)	-0.26	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.45	MT20HS		148/108	
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.15	Weight: 290 lb		FT = 20%	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							

LUMBER-

TOP CHORD 2x4 SPF No.2

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

WEBS 2x4 SPF No.2 *Except*

WEDGE Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-0-0 oc bracing: 23-26 6-0-0 oc bracing: 6-7

JOINTS 1 Brace at Jt(s): 26, 6, 15, 12, 20, 13, 17

REACTIONS.

(size) 25=0-4-0, 8=0-4-0

Max Horz 25=33(LC 33)

Max Uplift 25=-797(LC 4), 8=-828(LC 5)

Max Grav 25=6883(LC 1), 8=6742(LC 1)

FORCES.

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

TOP CHORD 25-26=-535/47, 1-23=-10962/1506, 1-2=-10130/1441, 2-3=-8441/1194, 3-4=-8440/1197, 4-5=-11038/1559, 5-7=-11513/1527, 6-8=-1202/128

BOT CHORD 24-26=-678/79, 23-24=-14335/1842, 21-23=-4989/583, 20-21=-4989/583, 17-20=-4865/535, 13-15=-175/819, 12-13=-2392/293, 10-12=-2492/357, 7-10=-2411/362, 6-7=-1016/119, 22-25=-1109/8748, 18-22=-1878/14335, 16-18=-1595/11911, 11-16=-1551/11311, 9-11=-1719/12701, 8-9=-1708/12707

WEBS 1-21=-253/1980, 4-15=-2603/443, 4-12=-200/1523, 3-15=-743/5525, 9-10=-251/262, 22-23=-4476/670, 15-16=-186/1788, 11-12=-413/84, 2-20=-145/993, 2-15=-1720/324, 18-20=-822/139, 5-10=0/272, 22-24=-977/7079, 24-25=-10011/1247, 11-13=-190/1551, 13-16=-1948/308, 16-17=-2582/343, 17-18=-308/2659, 7-8=-12770/1736

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 23-22 2x4 - 1 row at 0-7-0 oc, member 24-25 2x4 - 1 row at 0-7-0 oc, member 7-8 2x4 - 1 row at 0-7-0 oc.

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

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

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; 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 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 5, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEAS SUMMIT, MISSOURI 02/17/2021
2630316	A04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-5fqwHfPQryj2_u5KceKETXevZ_G5sDKk4yG9pzoW_7						

NOTES-

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=797, 8=828.

NOTES-

- Bearing at joint(s) 25, 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 100 lb uplift at joint(s) except (jt=lb) 25=797, 8=828.
- This truss 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) 945 lb down and 115 lb up at 0-7-4, 932 lb down and 126 lb up at 2-7-4, and 924 lb down and 135 lb up at 18-7-4, and 1462 lb down and 257 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=-70, 3-7=-70, 23-26=-140, 6-7=-140, 22-25=-140, 9-22=-20, 9-34=-90, 8-34=-140
 - Concentrated Loads (lb)
 - Vert: 23=-1864(B) 21=-905(B) 12=-905(B) 20=-905(B) 5=-874(B) 17=-905(B) 7=-1452(B) 27=-905(B) 28=-905(B) 29=-905(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

B01

Truss Type

HIP GIRDER

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

2630316/woodside ridge 40/mo

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

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02/17/2021

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RELEASE FOR

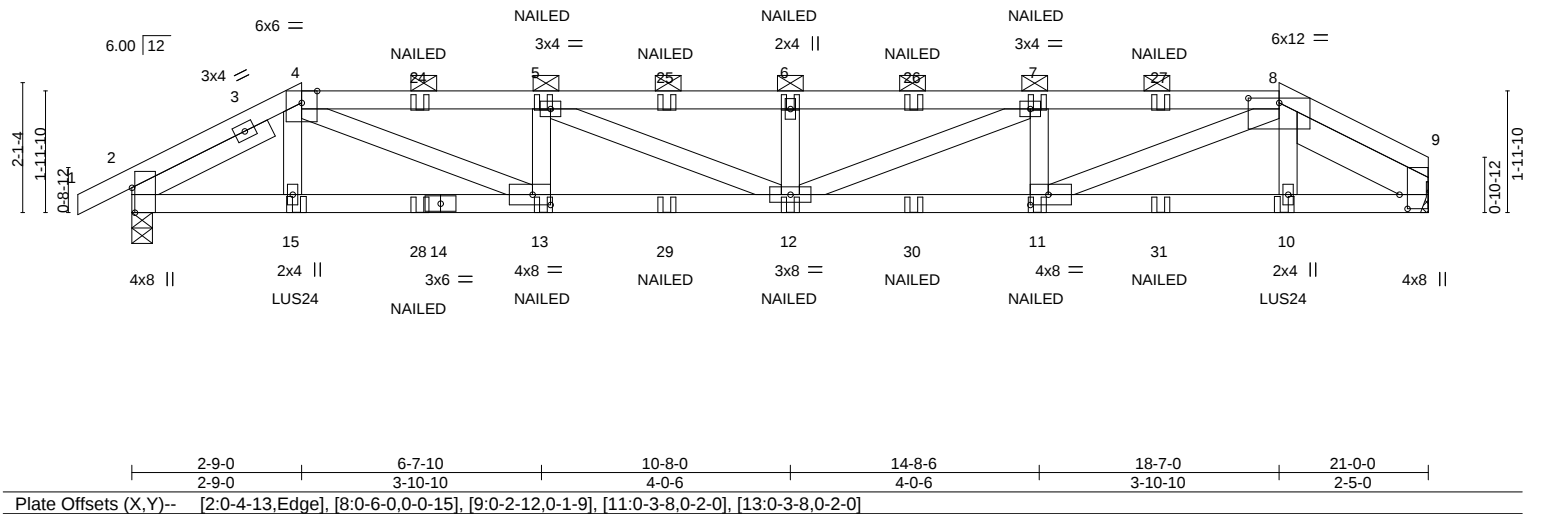
CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

J44672338



Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mon	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/17/2021
2630316	B01	HIP GIRDER	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. L-16-130-0150-01		
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-22xgiLhfyTCRHH2US1hoJuc05NebZr0dCORNEhzoW_5						

LOAD CASE(S) Standard

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-8=-70, 8-9=-70, 16-20=-20

Concentrated Loads (lb)

Vert: 15=-236(B) 13=-35(B) 5=-46(B) 12=-35(B) 6=-46(B) 7=-46(B) 11=-35(B) 10=-236(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-46(B) 28=-35(B) 29=-35(B) 30=-35(B) 31=-35(B)

Job

2630316

Truss

B02

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEES SUMMIT, MISSOURI

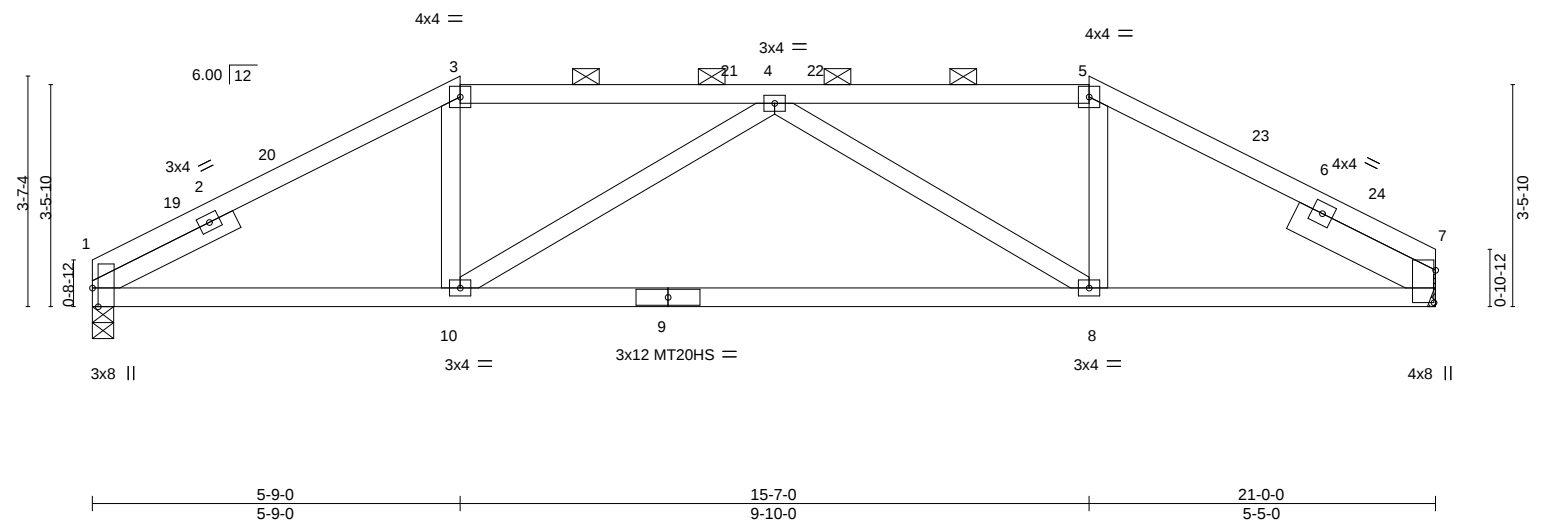
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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02/17/2021

Scale = 1:36.0



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 0.49	Vert(LL)	-0.27 8-10	>949	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.56 8-10	>447	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.06 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 (4-11-6 max.): 3-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0	

REACTIONS. (size) 1=0-4-0, 7=Mechanical
Max Horz 1=47(LC 12)
Max Uplift 1=-126(LC 12), 7=-124(LC 13)
Max Grav 1=945(LC 1), 7=945(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1486/218, 3-4=-1269/224, 4-5=-1206/216, 5-7=-1427/213
BOT CHORD 1-10=-145/1284, 8-10=-216/1573, 7-8=-127/1221
WEBS 3-10=-2/410, 4-10=-461/155, 4-8=-522/160, 5-8=-2/421

- 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 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
 - 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.
 - 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) except (jt=lb) 1=126, 7=124.
 - This truss 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 5, 2021

Job

2630316

Truss

B03

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

Lee's Summit, MO 64080

7-3-0

7-3-0

14-1-0

6-10-0

21-0-0

6-11-0

6x6 =

3

19

21

4

6

3x4 =

2

18

22

23

5

4x4 =

1

9

8

7

5x8 =

4-4-4

4-2-10

0-8-12

0-10-12

4-2-10

14-1-0

6-10-0

21-0-0

6-11-0

Scale = 1:36.0

RELEASE FOR

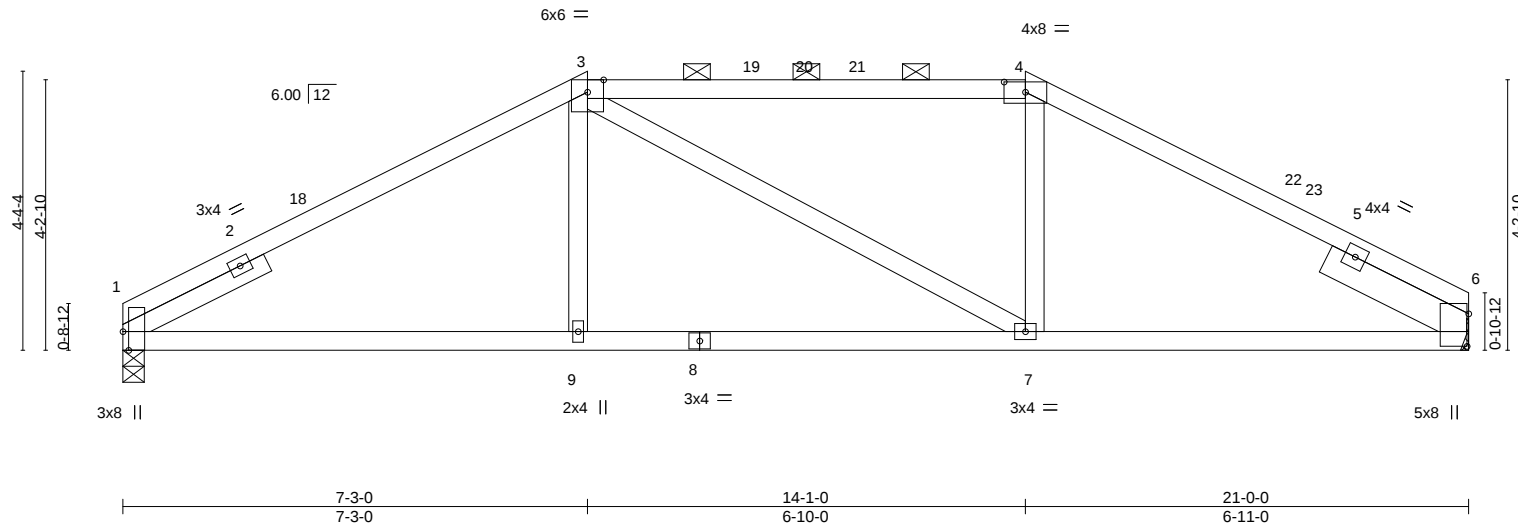
CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021



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 0.75	Vert(LL)	-0.07	7-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.15	7-9	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.06	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 75 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 (3-8-11 max.): 3-4.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0	

REACTIONS.	(size) 1=0-4-0, 6=Mechanical
Max Horz	1=60(LC 12)
Max Uplift	1=-124(LC 12), 6=-122(LC 13)
Max Grav	1=945(LC 1), 6=945(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-1374/231, 3-4=-1154/246, 4-6=-1362/228
BOT CHORD	1-9=-140/1204, 7-9=-142/1198, 6-7=-128/1159
WEBS	3-9=0/285, 4-7=0/277

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



February 5,2021

Job

2630316

Truss

B04

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

4-6-4

8-9-0

12-7-0

16-7-12

16-9-12

4-2-4

4-6-4

4-2-12

3-10-0

4-0-12

0-2-0

4-2-4

5-1-4

4-11-10

0-8-12

6.00

12

2x4

3

20

3x4

2

4x4

4

4x4

5

6x6

2x4

6

22

7 4x4

8

4-11-10

0-10-12

5x8

3x8

3x4

3x4

8-9-0

8-9-0

12-7-0

3-10-0

21-0-0

8-5-0

Plate Offsets (X,Y)--

[1:0-3-8,Edge], [8:0-6-1,0-0-5]

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 0.27

Vert(LL) -0.10 11-14

>999

240

MT20

197/144

TCDL 10.0

Lumber DOL 1.15

BC 0.55

Vert(CT) -0.20 11-14

>999

180

BCLL 0.0

Rep Stress Incr YES

WB 0.11

Horz(CT) 0.04 8

n/a

n/a

BCDL 10.0

Code IRC2018/TPI2014

Matrix-AS

Weight: 85 lb

FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-8-1 max.): 4-5.

BOT CHORD Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 1=72(LC 12)

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

Max Grav 1=945(LC 1), 8=945(LC 1)

FORCES.

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

TOP CHORD 1-3=-1435/264, 3-4=-1238/231, 4-5=-1050/239, 5-6=-1203/228, 6-8=-1364/253

BOT CHORD 1-11=-210/1252, 9-11=-99/1035, 8-9=-175/1170

WEBS 4-11=-15/271

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 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 100 lb uplift at joint(s) except (jt=lb) 1=122, 8=119.

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

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

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

February 5, 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

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

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

B05

Truss Type

Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEES SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-wpBBXikA0hismvLFhslkUknqF_45VjXD60PaNSzoW_1

02/17/2021

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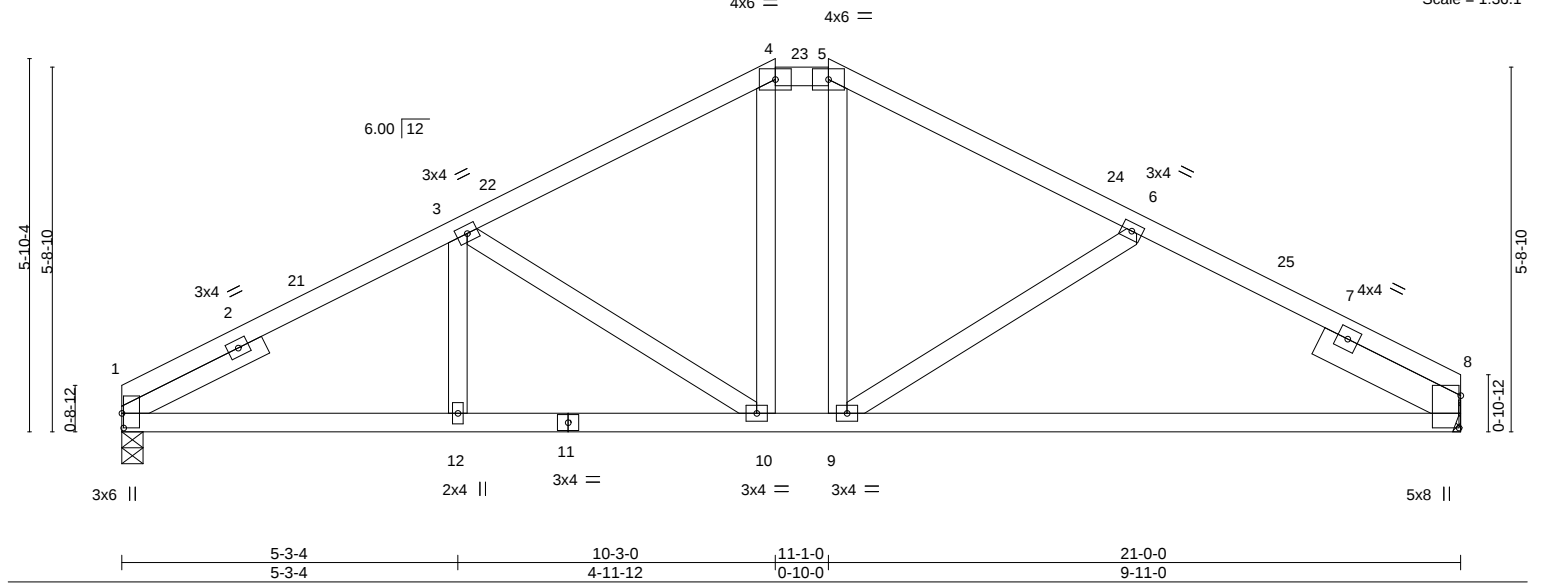


Plate Offsets (X,Y)--		[1:0-2-12,0-0-5], [8:0-6-1,0-0-5]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.14 9-19	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.29 9-19	>881	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.04 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 (5-9-6 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0		

REACTIONS.	
(size)	1=0-4-0, 8=Mechanical
Max Horz	1=84(LC 12)
Max Uplift	1=-119(LC 12), 8=-117(LC 13)
Max Grav	1=945(LC 1), 8=945(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1448/217, 3-4=-1120/212, 4-5=-934/209, 5-6=-1121/206, 6-8=-1354/230
BOT CHORD	1-12=-198/1253, 10-12=-198/1253, 9-10=-59/934, 8-9=-145/1165
WEBS	3-10=-429/162, 5-9=0/383, 6-9=-323/160

- 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 truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 8=117.
 - This truss 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 5,2021

Job

2630316

Truss

B06

Truss Type

Common

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-sBlxyOIQYJya?CVdoHoCZ9sAdopWzfyWaJuhRLzoW_?

15-8-4

5-0-4

21-0-0

5-3-12

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

RELEASE FOR

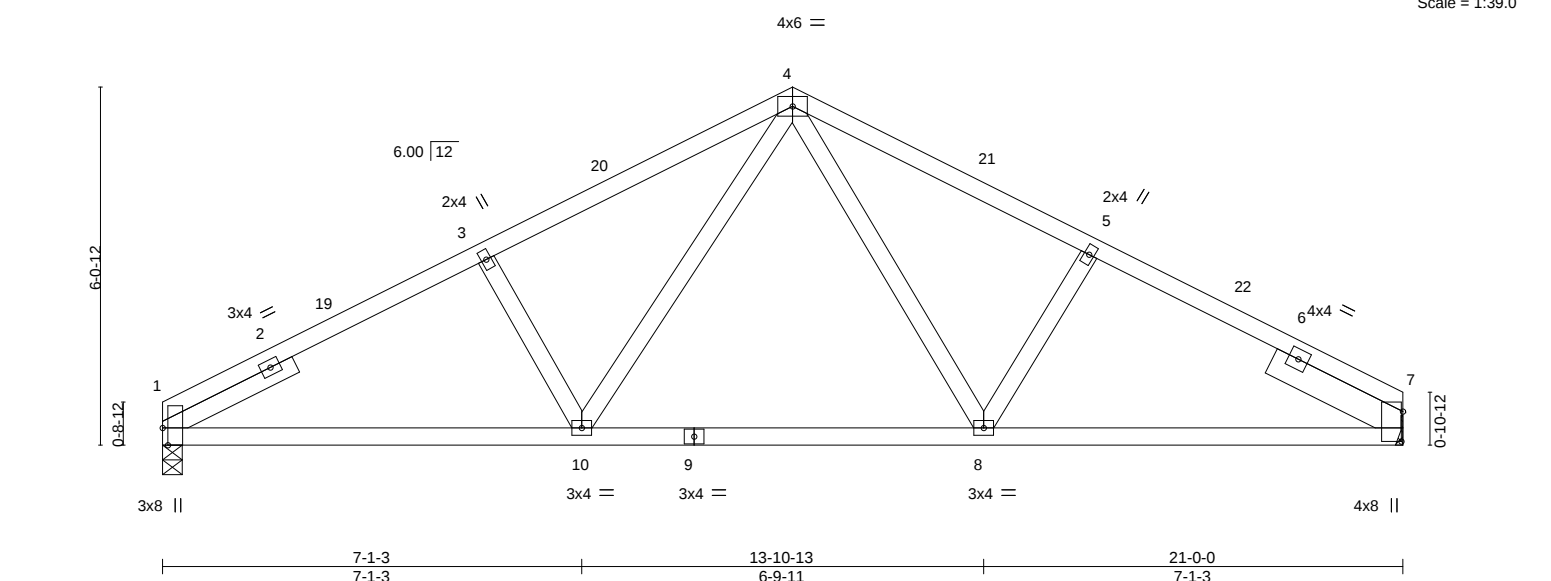
CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:39.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.07 8-10 >999 240	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.14 8-10 >999 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.04 7 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 81 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 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=945(LC 1), 7=945(LC 1)

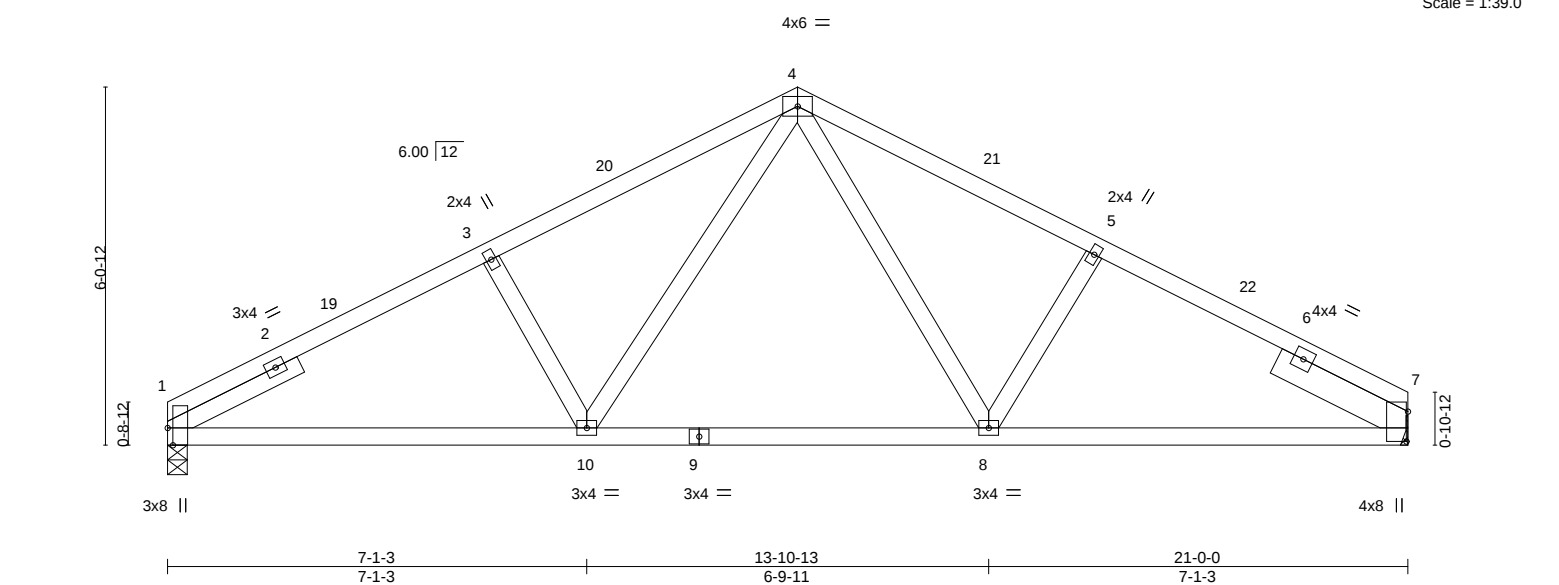
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1438/283, 3-4=-1322/307, 4-5=-1255/294, 5-7=-1373/274
BOT CHORD 1-10=-201/1245, 8-10=-82/876, 7-8=-178/1174
WEBS 3-10=-310/166, 4-10=-108/480, 4-8=-92/413, 5-8=-270/157

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



February 5, 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 02/17/2021
2630316	B07	Common	4	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc.			
			ID:WH4RYhEsTNeUP2dXvOf1syQY8e-LOsKAKm2Jc5RdM4qM?JR5NPLMC8li6CfpzdF_nzoW__			
5-5-12 5-5-12			10-8-0 5-2-4			15-8-4 5-0-4
						21-0-0 5-3-12



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

02/17/2021

Scale = 1:37.2

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

8.240 s Mar 9 2020 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-paQin4ng4wDIFWf0wiggeayRMbSTRW8o1dNovEzoVzz

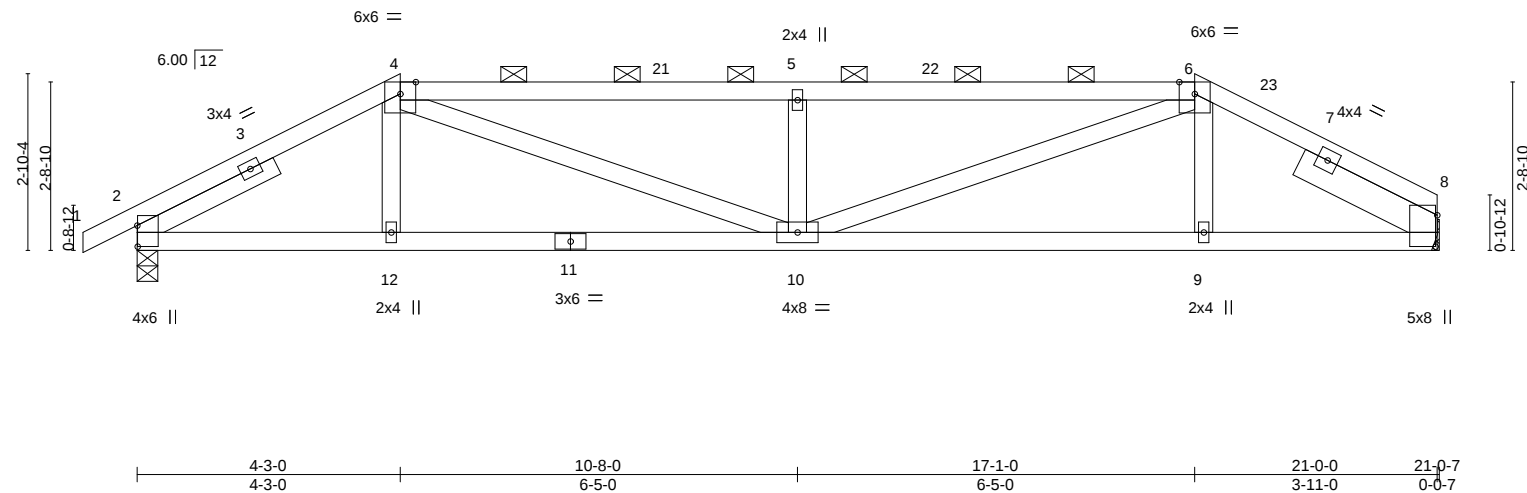
0-10-8
0-10-8

4-3-0
4-3-0

10-8-0
6-5-0

17-1-0
6-5-0

21-0-0
3-11-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.11	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22				
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.05				
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 (3-2-9 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0		

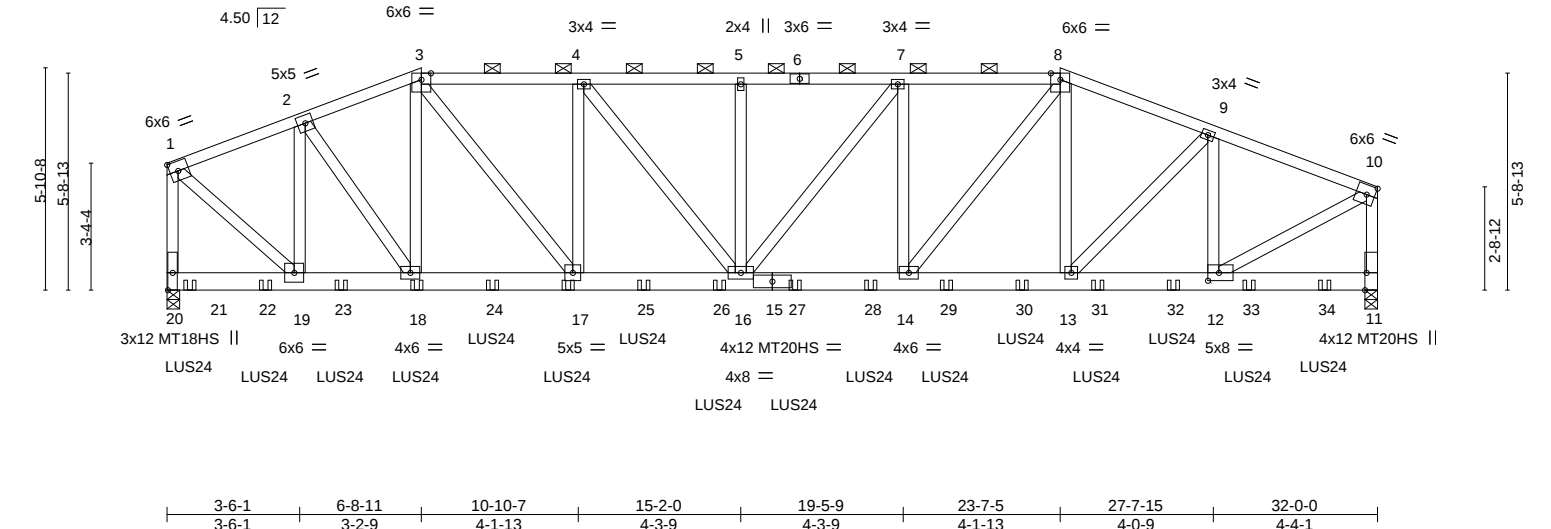
REACTIONS.	
(size)	8=Mechanical, 2=0-4-0
Max Horz	2=49(LC 12)
Max Uplift	8=-126(LC 13), 2=-145(LC 12)
Max Grav	8=944(LC 1), 2=1008(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1503/221, 4-5=-2192/350, 5-6=-2192/350, 6-8=-1425/226
BOT CHORD	2-12=-181/1319, 10-12=-184/1315, 9-10=-157/1236, 8-9=-154/1238
WEBS	4-10=-195/1006, 5-10=-557/187, 6-10=-204/1083

- 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 connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=126, 2=145.
 - This truss 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 5, 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 0.50	Vert(LL)	-0.18 14-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.34 14-16	>999	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.75	Horz(CT)	0.06 11	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TP12014		Matrix-MS					Weight: 377 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-0 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=5731(LC 1), 11=5713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4299/818, 2-3=-5821/1119, 3-4=-7662/1410, 4-5=-8642/1515, 5-7=-8642/1515, 7-8=-8351/1443, 8-9=-7112/1246, 9-10=-5837/1009, 1-20=-5156/983, 10-11=-5220/914
BOT CHORD 18-19=-735/3985, 17-18=-995/5483, 16-17=-1342/7659, 14-16=-1375/8348, 13-14=-1120/6651, 12-13=-947/5416
WEBS 2-19=-2703/523, 2-18=-441/2552, 3-18=-1084/133, 3-17=-571/3623, 4-17=-1680/264, 4-16=-202/1615, 5-16=-294/103, 7-16=-177/538, 7-14=-848/237, 8-14=-439/2862, 9-13=-262/1835, 9-12=-1894/344, 1-19=-997/5290, 10-12=-1046/6123

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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.
 - 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 100 lb uplift at joint(s) except (jt=lb) 20=1065, 11=983.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 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 12-0-0 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.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 14-7-4 from the left end to 32-0-0 to connect truss(es) to back face of bottom chord.



February 5, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	14677346 CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/17/2021
2630316	C01	HIP GIRDER	1	2	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc. 14677346		
ID:wH4RYhEstNeUP2dXvOfi1syQY8e-lzYSomoxcXT0UqpP17s8j?1pOPBLvJ25VxsvZ6zoVzx						

NOTES-

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

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

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-8=-70, 8-10=-70, 11-20=-20
Concentrated Loads (lb)
Vert: 18=-495(B) 17=-495(B) 21=-500(B) 22=-495(B) 23=-495(B) 24=-495(B) 25=-495(B) 26=-604(B) 27=-604(B) 28=-604(B) 29=-604(B) 30=-604(B) 31=-530(B)
32=-524(B) 33=-524(B) 34=-524(B)

Job

2630316

Truss

C02

Truss Type

Roof Special

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-hLgDDsqB79jkj7zn9YucoQ68oDoTNEtOyFL?e?zoVzv

14677347

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEAS SUMMIT, MISSOURI

02/17/2021

1-10-0

6-6-5

11-2-11

14-2-0

18-5-5

21-2-0

25-2-0

32-0-0

1-10-0

4-8-5

4-8-5

2-11-5

4-3-5

2-8-11

4-0-0

6-10-0

Scale = 1:58.0

Job

2630316

Truss

C03

Truss Type

Roof Special

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEF'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-9YEBQnpuSrbLHX_jFQrLefLHc9C6gvYBv4ZARzoVzu

144677348

1-10-0

7-10-5

13-10-11

15-9-5

19-9-11

23-10-0

27-10-0

32-0-0

1-10-0

6-0-5

6-0-5

1-10-11

4-0-5

4-0-5

4-0-0

4-2-0

6x6 =

4x4 =

4.50 12

2x4 ||

23

4

5

3x4 =

24

6

6x8 =

4x4 =

26

4x6 =

27

9

7-11-4

4-9-6

7-9-10

2-8-12

1-0-0

3-4-4

7-9-10

Scale = 1:63.2

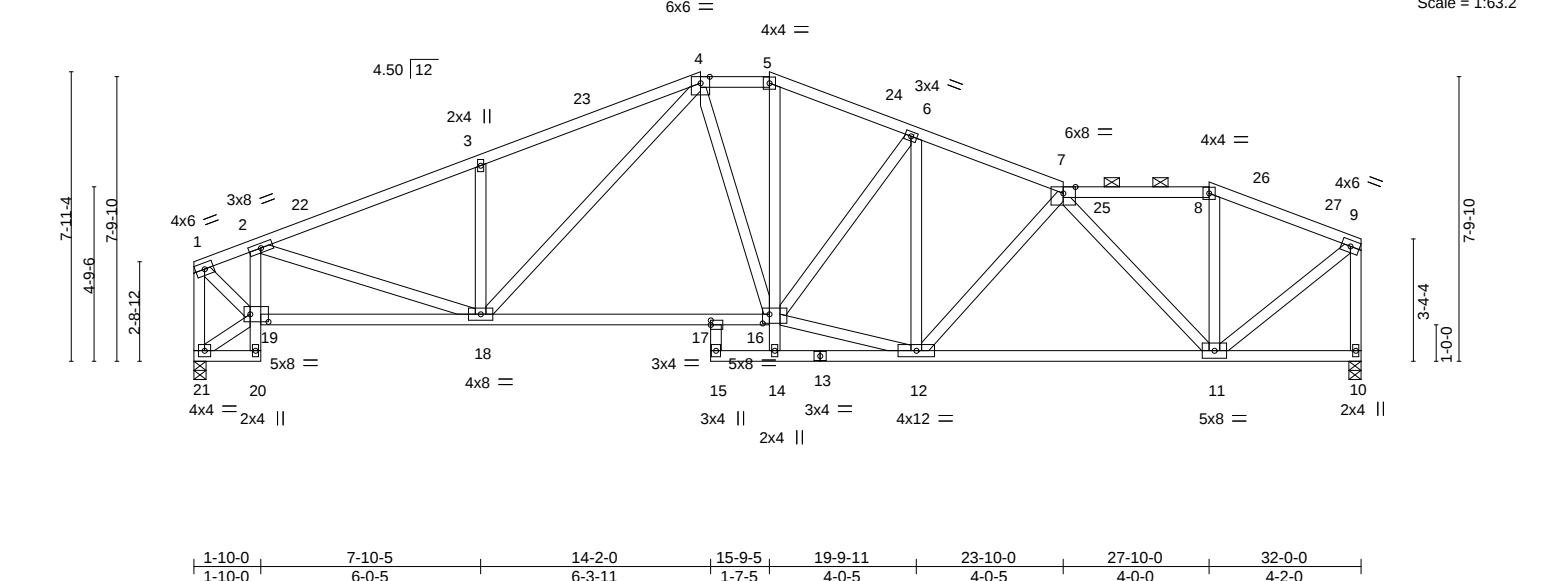


Plate Offsets (X,Y)-- [16:0-2-4,0-3-0], [17:0-0-0,0-1-8], [19:0-6-0,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.12 11-12 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.28 11-12 >999	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.10 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 (4-3-2 max.): 4-5, 7-8.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 10=0-4-0, 21=0-4-0
Max Horz 21=69(LC 11)
Max Uplift 10=-203(LC 9), 21=-180(LC 8)
Max Grav 10=1427(LC 1), 21=1427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1140/225, 2-3=-2183/334, 3-4=-2182/409, 4-5=-1743/330, 5-6=-1900/339,
6-7=-1948/309, 7-8=-1109/206, 8-9=-1226/196, 1-21=-1379/235, 9-10=-1406/213
BOT CHORD 2-19=-926/200, 18-19=-293/1157, 17-18=-261/1705, 16-17=-198/1759, 11-12=-305/1873
WEBS 2-18=-111/864, 3-18=-440/193, 5-16=-74/468, 7-11=-1134/183, 9-11=-189/1400,
1-19=-228/1443, 4-18=-170/496, 12-16=-206/1837, 4-16=-89/337

- 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 13-10-11, Exterior(2E) 13-10-11 to 15-9-5, Exterior(2R) 15-9-5 to 18-9-5, Interior(1) 18-9-5 to 27-10-0, Exterior(2R) 27-10-0 to 30-10-0, Interior(1) 30-10-0 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) 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) 10=203, 21=180.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5, 2021

Job

2630316

Truss

C04

Truss Type

ROOF SPECIAL

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

2630316/woodside ridge 40/mo

7-6-12

14-10-0

20-8-0

26-6-0

30-6-0

32-0-0

7-6-12

7-3-4

5-10-0

5-10-0

4-0-0

1-6-0

4x6 ||

3

15

16

3x4 =

4

4x12 =

6x6 =

2x4 ||

7

3x4 =

2

14

5x5 =

1

13

3x4 =

12

3x8 =

11

10

3x6 =

9

6x8 =

8

4x4 =

8-3-8

3-9-5

2-8-12

3-4-4

3-9-5

Scale = 1:56.4

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

144677349

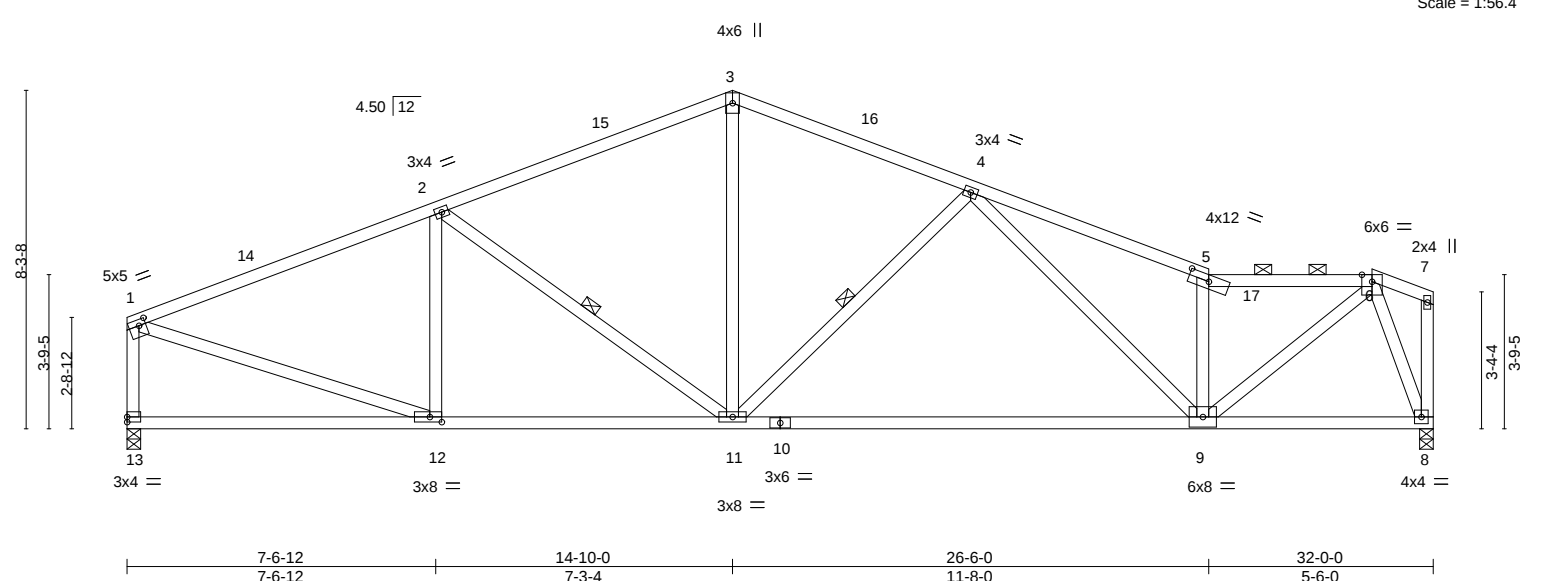


Plate Offsets (X,Y)--		[1:0-2-0,0-1-12], [5:0-6-0,0-1-15], [12:0-3-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.57
TCDL 10.0	Lumber DOL	1.15	BC 0.95
BCLL 0.0	Rep Stress Incr	YES	WB 0.44
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.39 9-11 >976 240
		Vert(CT)	-0.82 9-11 >465 180
		Horz(CT)	0.06 8 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 146 lb	FT = 20%

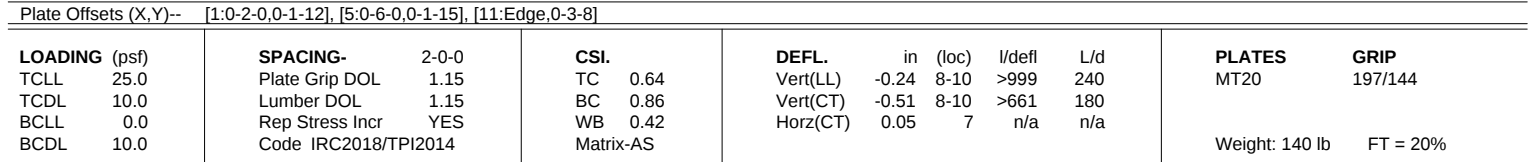
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-4 max.): 5-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-11, 4-11
REACTIONS.			
(size) 13=0-4-0, 8=0-4-0			
Max Horz 13=65(LC 9)			
Max Uplift 13=-174(LC 8), 8=-197(LC 9)			
Max Grav 13=1427(LC 1), 8=1427(LC 1)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1813/242, 2-3=-1650/270, 3-4=-1626/273, 4-5=-2068/283, 5-6=-1911/230, 1-13=-1348/202
BOT CHORD	11-12=-255/1621, 9-11=-262/1792, 8-9=-107/533
WEBS	2-12=-384/116, 2-11=-341/158, 3-11=-63/668, 4-11=-547/199, 5-9=-1057/216, 6-9=-200/1812, 1-12=-178/1602, 6-8=-1475/227

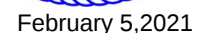
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-0, 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=174, 8=197.
 - 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.

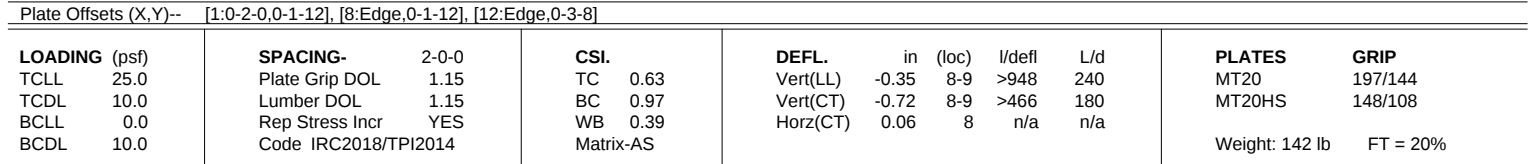


February 5,2021



- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=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; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=180, 12=155.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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=1262(LC 1), 8=1262(LC 1)

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

TOP CHORD	1-2=-1264/236, 2-3=-1219/297, 3-4=-1700/329, 4-5=-1693/258, 5-7=-264/51, 1-13=-1190/194, 7-8=-261/69
BOT CHORD	2-11=-470/203, 9-11=-102/1057, 8-9=-229/1540
WEBS	4-9=-422/178, 3-9=-188/840, 3-11=-134/261, 5-8=-1622/274, 1-11=-154/1180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=156, 8=175.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

Job

2630316

Truss

C07

Truss Type

HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc

ID:WH4RYhEsTNeUP2dXvOf1syQY8e_hbshrvaUjkb3C773WWFavvJZ1EKWUEQZrXtO5zoVzo

20-8-9 7-3-15

28-4-0 7-7-7

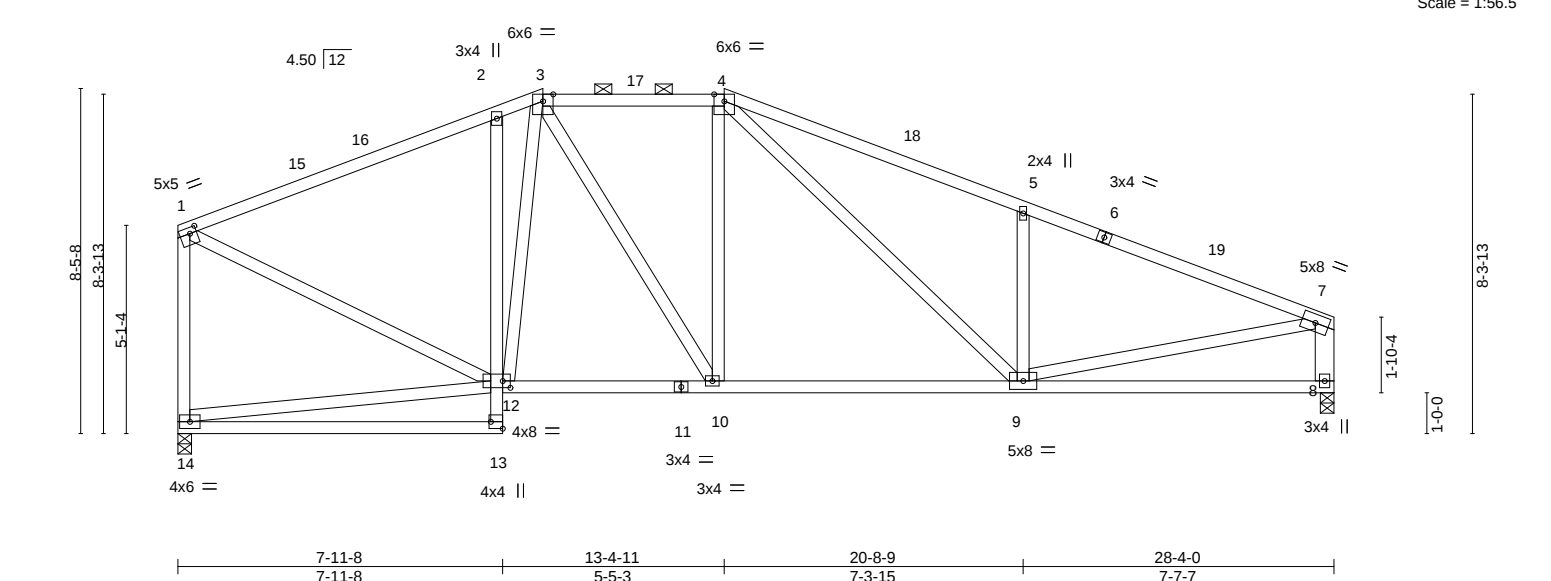
Job Reference (optional)

LEAS SUMMIT MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

02/17/2021

Scale = 1:56.5



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 0.60	Vert(LL)	-0.11 13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.22 13-14	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.04 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	2-0-0 oc purlins (4-11-14 max.): 3-4.
WEBS 2x4 SPF No.2 *Except*	BOT CHORD 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=1258(LC 1), 8=1258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1255/241, 2-3=-1212/293, 3-4=-1267/275, 4-5=-1847/382, 5-7=-1853/282, 1-14=-1179/197, 7-8=-1182/208
BOT CHORD 2-12=-477/230, 10-12=-118/1073, 9-10=-128/1271
WEBS 3-10=-107/453, 4-9=-190/561, 5-9=-542/237, 7-9=-188/1507, 1-12=-157/1175

- 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 100 lb uplift at joint(s) except (jt=lb) 14=176, 8=180.
 - This truss 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 5,2021

Job

2630316

Truss

C08

Truss Type

HIP GIRDER

Qty

1

Ply

2

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc

3-2-7

6-1-5

7-11-8

12-1-1

16-2-11

22-1-9

28-4-0

3-2-7

2-10-15

1-10-3

4-1-9

4-1-9

5-10-15

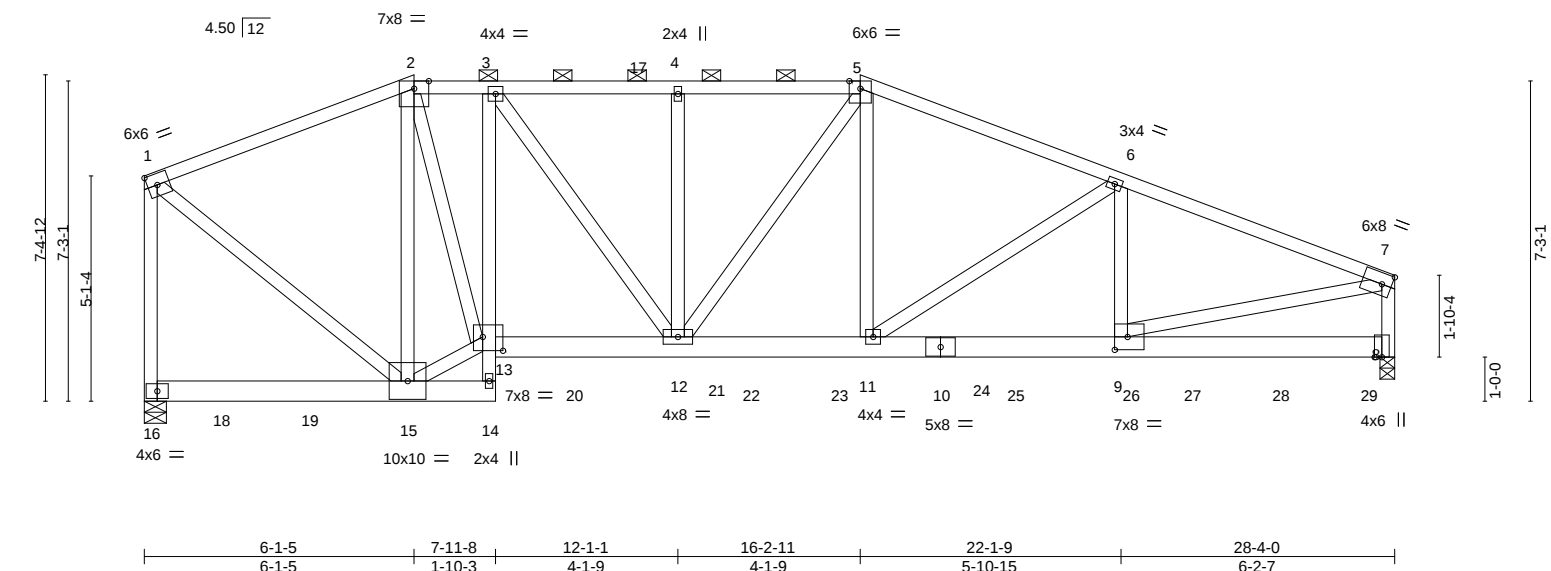
6-2-7

14677353

LEI'S SUMMIT, MISSOURI

02/17/2021

Scale = 1:52.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.16	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.28				
BCLL	0.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 338 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except*

3-14: 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 2-5.

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

REACTIONS. (size) 8=0-4-0, 16=0-6-0
Max Horz 16=-148(LC 6)
Max Uplift 8=-982(LC 5), 16=-952(LC 4)
Max Grav 8=5210(LC 1), 16=5004(LC 1)

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

TOP CHORD 1-2=-3916/800, 2-3=-4862/1002, 3-4=-6066/1242, 4-5=-6068/1244, 5-6=-6507/1321, 6-7=-7145/1380, 1-16=-4439/872, 7-8=-4264/839

BOT CHORD 3-13=-1930/407, 12-13=-882/4901, 11-12=-1125/5999, 9-11=-1266/6622, 8-9=-85/367

WEBS 1-15=-877/4604, 2-15=-3036/565, 13-15=-687/3928, 2-13=-812/4323, 5-11=-387/1863, 6-11=-708/186, 6-9=-233/364, 7-9=-1218/6450, 4-12=-413/130, 5-12=-25/285, 3-12=-418/2012

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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.
 - Bearing at joint(s) 8, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=982, 16=952.
 - This truss 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.



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 02/17/2021
2630316	C08	HIP GIRDER	1	2	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		J44677353
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-w4ic6Wxq0wrSIW9WBxZjgK_dSroC_G8j190_SzzoVzm						Page 2
NOTES-						
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 571 lb down and 113 lb up at 1-8-12, 571 lb down and 128 lb up at 3-8-12, 571 lb down and 162 lb up at 5-8-12, 577 lb down and 103 lb up at 7-9-12, 545 lb down and 116 lb up at 9-8-12, 545 lb down and 116 lb up at 11-8-12, 545 lb down and 116 lb up at 13-8-12, 545 lb down and 116 lb up at 15-8-12, 545 lb down and 169 lb up at 17-8-12, 545 lb down and 134 lb up at 19-8-12, 530 lb down and 103 lb up at 21-8-12, 530 lb down and 105 lb up at 23-8-12, and 530 lb down and 111 lb up at 25-8-12, and 536 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=-70, 2-5=-70, 5-7=-70, 14-16=-20, 8-13=-20

Concentrated Loads (lb)

Vert: 14=-577(B) 15=-571(B) 18=-571(B) 19=-571(B) 20=-545(B) 21=-545(B) 22=-545(B) 23=-545(B) 24=-545(B) 25=-545(B) 26=-530(B) 27=-530(B) 28=-530(B) 29=-536(B)

Job

2630316

Truss

D01

Truss Type

HALF HIP GIRDER

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEES SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-tTqNXCz4YX6AYqivIMbBII32febRSHQ0UTV5XszoVzk

12-0-0

4-9-4

0-10-8

2-9-0

7-2-12

4-5-12

0-10-8

2-9-0

4-5-12

02/17/2021

Scale = 1:21.9

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEES SUMMIT, MISSOURI

02/17/2021

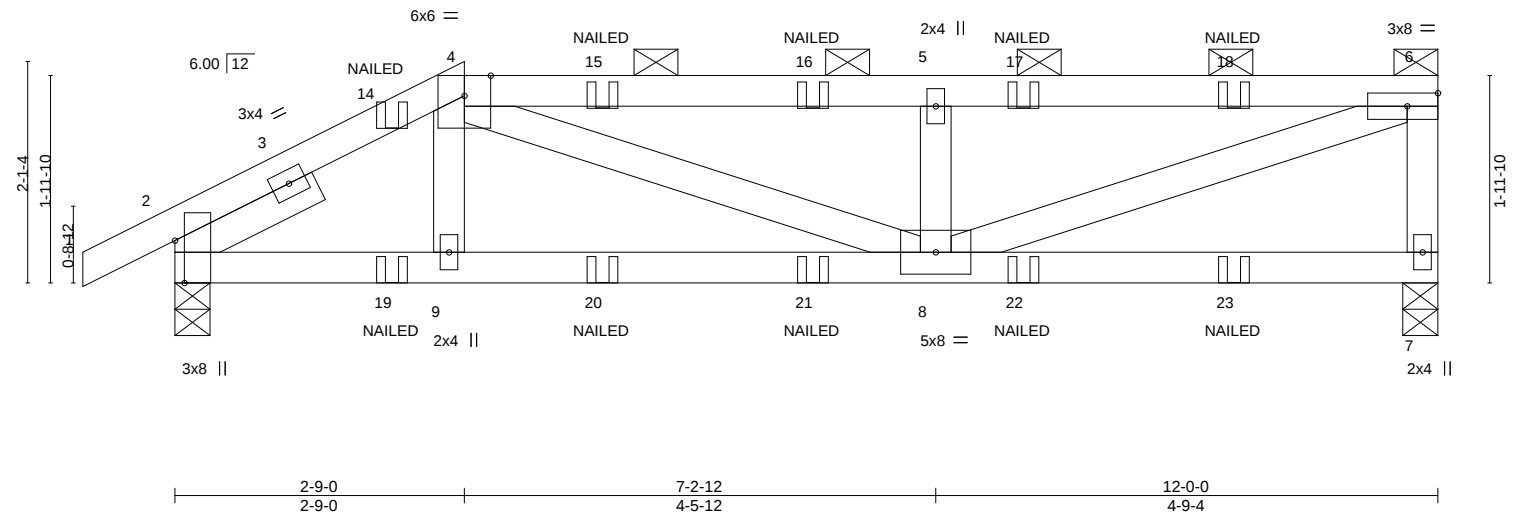


Plate Offsets (X, Y)--		[2:0-4-13,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.05	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.09				
BCLL	0.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 46 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-15 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 1-6-0		

REACTIONS.	
(size)	7=0-4-0, 2=0-4-0
Max Horz	2=65(LC 7)
Max Uplift	7=-136(LC 5), 2=-146(LC 8)
Max Grav	7=744(LC 1), 2=826(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1135/205, 4-5=-1444/265, 5-6=-1442/264, 6-7=-672/155
BOT CHORD	2-9=-218/987, 8-9=-220/977
WEBS	4-8=-88/520, 5-8=-496/186, 6-8=-272/1457

- 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) 7=136, 2=146.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-4=-70, 4-6=-70, 7-10=-20	
Concentrated Loads (lb)	
Vert: 14=-4(B) 15=-46(B) 16=-46(B) 17=-46(B) 18=-46(B) 19=-116(B) 20=-35(B) 21=-35(B) 22=-35(B) 23=-35(B)	



Job

2630316

Truss

D02

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEIS SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-LfOkYzJrE1AzT5s36QHycFIzEBmL9j7Fe3IzoVzj

144677355

0-10-8

0-10-8

4-0-0

4-0-0

7-10-4

3-10-4

12-0-0

4-1-12

02/17/2021

Scale = 1:21.7

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

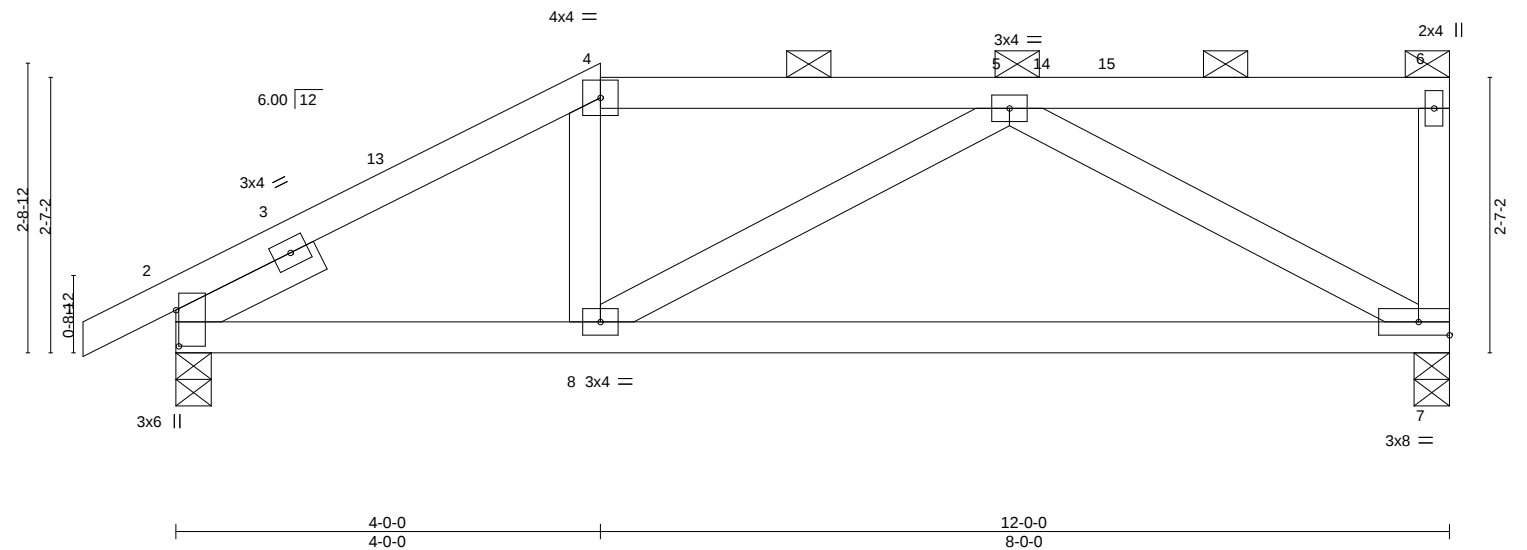


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.10	7-8	>999	240	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.21	7-8	>665	180			
BCLL 0.0	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.01	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS								
									Weight: 46 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.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 1-6-0		

REACTIONS.	
(size)	2=0-4-0, 7=0-4-0
Max Horz	2=88(LC 11)
Max Uplift	2=-68(LC 12), 7=-95(LC 9)
Max Grav	2=597(LC 1), 7=531(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-761/181, 4-5=-635/188
BOT CHORD	2-8=-205/640, 7-8=-212/618
WEBS	5-7=-647/221

- 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 4-0-0, 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
 - 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) 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.
 - 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 5, 2021

Job

2630316

Truss

D03

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-pry7xu_L38Mun7SHQndfqA9MRSLNw9mJxn_BblzoVzi

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

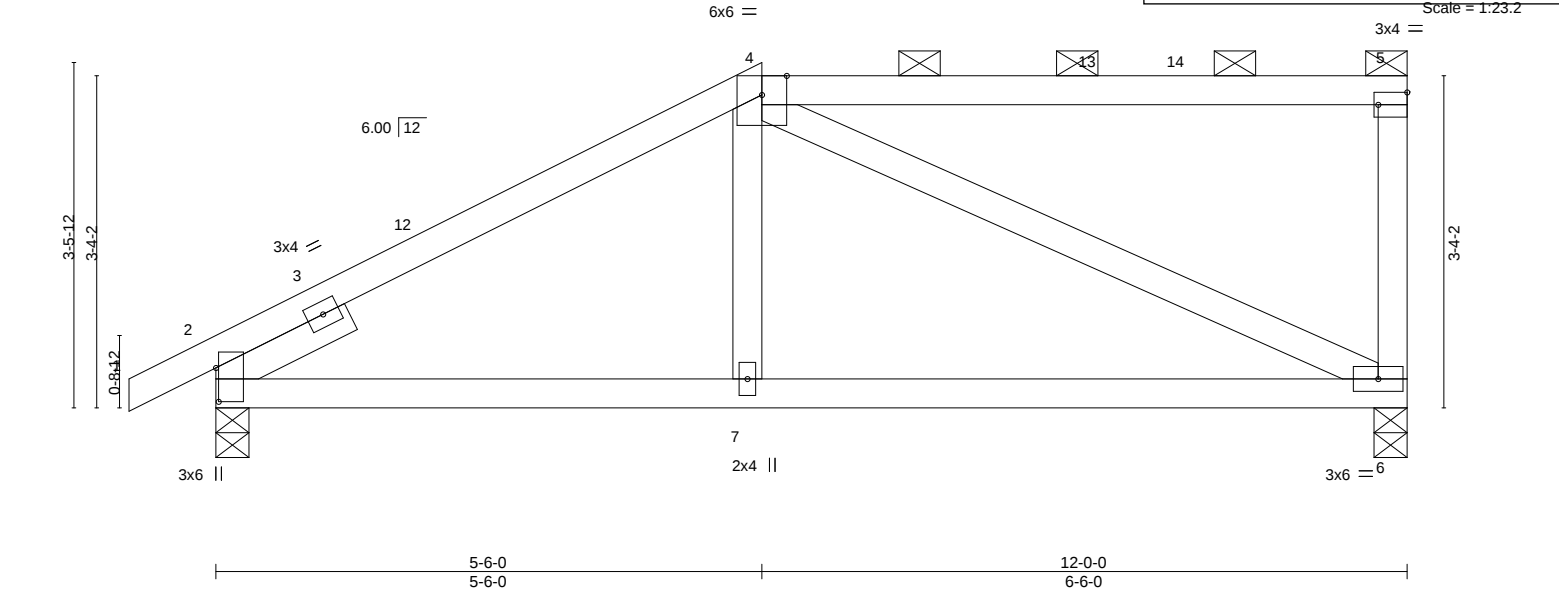


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5], [5:Edge,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.52
TCDL 10.0	Lumber DOL	1.15	BC 0.31
BCLL 0.0	Rep Stress Incr	YES	WB 0.49
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.05 6-7 >999 240
			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 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=597(LC 25), 6=531(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-695/177
BOT CHORD	2-7=-232/575, 6-7=-234/569
WEBS	4-7=0/251, 4-6=-558/210

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



February 5, 2021

Job

2630316

Truss

D04

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-H2WV9E7zqSUIPH1TzU9uNNhZfsTteoSARKl8BzoVzh

11-7-8

4-7-8

12-3-8

0-8-0

0-10-8

0-10-8

7-0-0

7-0-0

6.00

12

3x4

11

3x4

12

3x4

13

3x4

14

3x4

15

3x4

16

3x4

17

3x4

18

3x4

19

3x4

20

3x4

21

3x4

22

3x4

23

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Job

2630316

Truss

D05

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

2630316/woodside ridge 40/mo

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-IE4uMa0bmc1RcgXBg7vbEoJG_EO75bP5TigdzoVzg

44677358

LEI'S SUMMER, MISSOURI

02/17/2021

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

Scale = 1:29.6

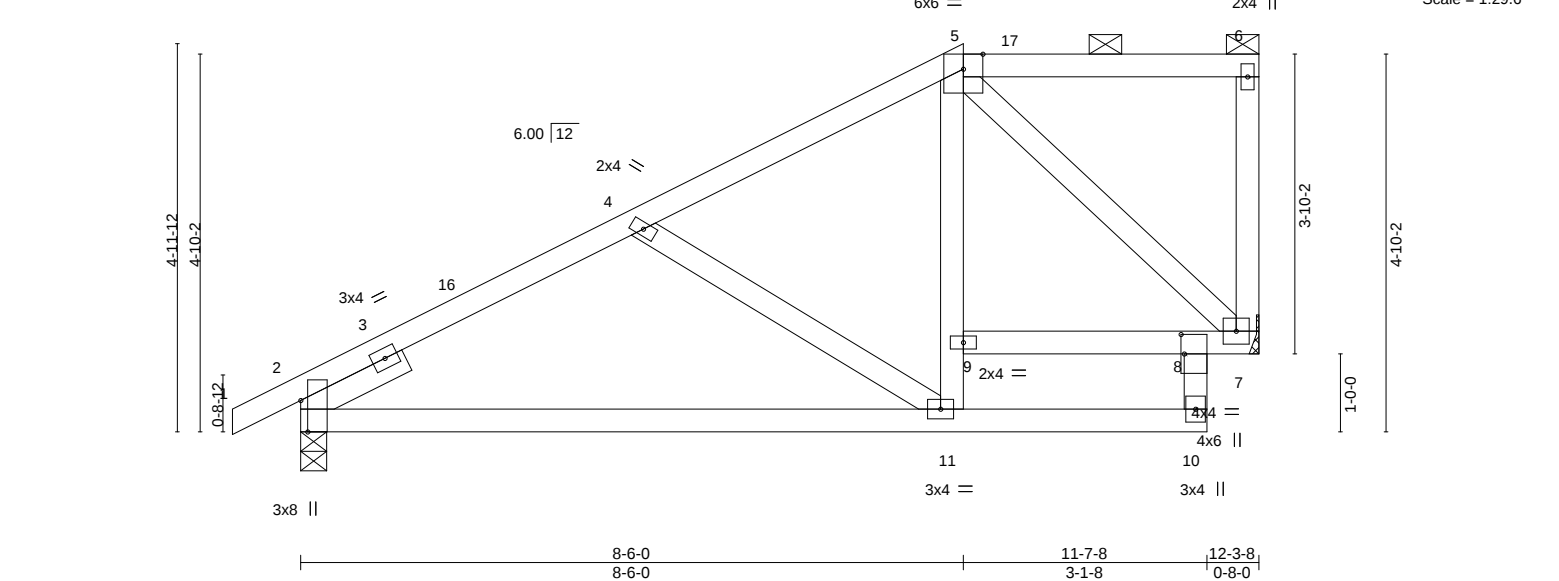


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [8:0-3-0,0-0-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(LL) -0.09 11-14 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.25	Vert(CT) -0.18 11-14 >809 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.03 7 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 56 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 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=544(LC 1), 2=610(LC 1)	

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-4=-671/171, 4-5=-440/127	
BOT CHORD 2-11=-296/598, 10-11=-115/252, 7-8=-163/348	
WEBS 4-11=-310/170, 9-11=-15/322, 5-9=-15/301, 5-7=-484/175	

- 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 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 5,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION
2630316	D06	HALF HIP	1	1	Job Reference (optional)	AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.240 s Mar 9 2020 MiTek Industries, Inc.	DEVELOPMENT SERVICES
ID:wH4RYhEstNeUP2dXvOfi1syQY8e-DQeGaw0DM3kSeBbs5vBMsonxCfC7allelDsC3zoVzf					Lee's Summit, Missouri	02/17/2021

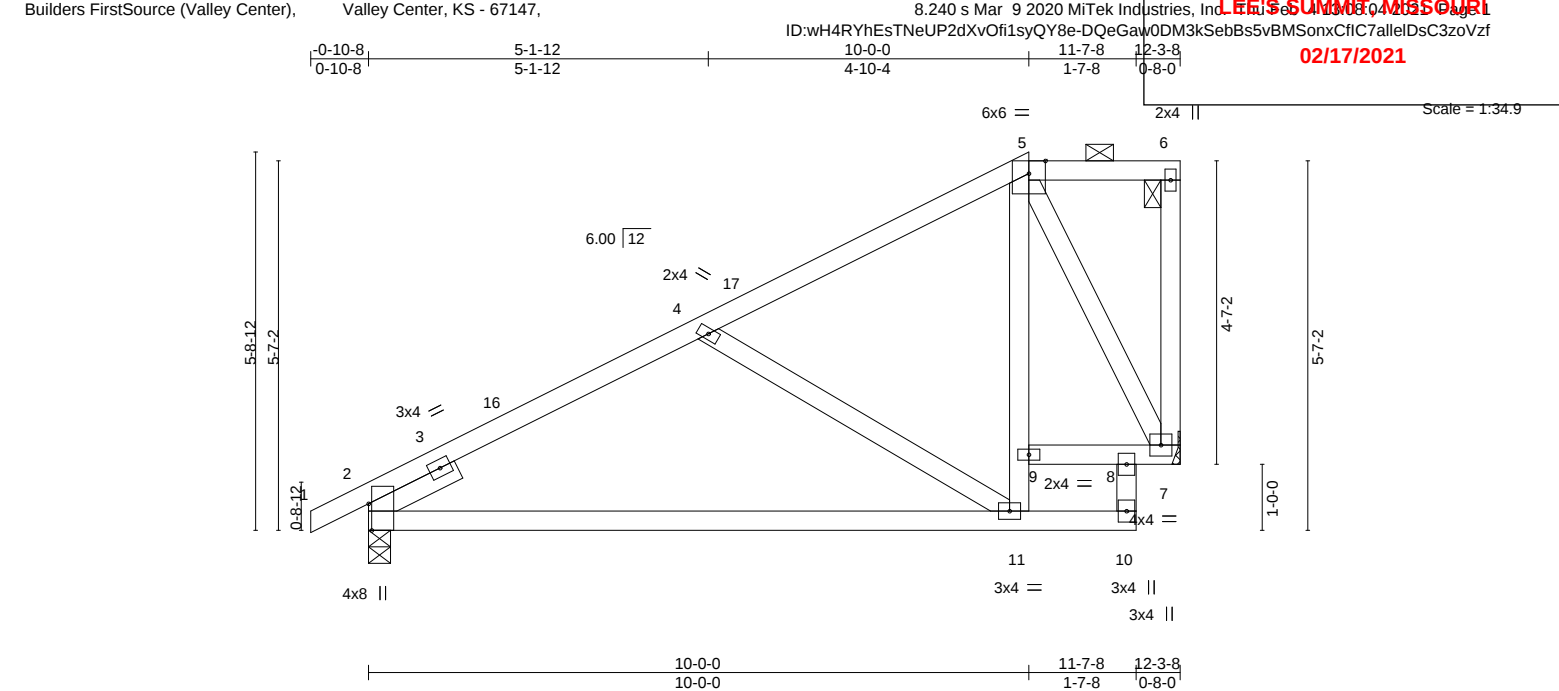


Plate Offsets (X,Y)-- [2:0-4-13,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.16 11-14	>939	240
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.32 11-14	>463	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.02 7	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES		GRIP	
				MT20		197/144	
				Weight: 57 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.
SLIDER Left 2x4 SPF No.2 1-6-0	

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=544(LC 1), 2=610(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-769/163, 4-5=-334/103
BOT CHORD	2-11=-285/570
WEBS	4-11=-405/199, 9-11=-12/459, 5-9=-34/394, 5-7=-504/165

- 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 truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5, 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 02/17/2021
2630316	D07	HALF HIP	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	8.240 s Mar 9 2020 MiTek Industries, Inc			
			ID: wH4RYhEsTNeUP2dXvOf1syQY8e-hdBenG1r7NsJGlm2fcib_0J153fms_7usPyPkWzoVze			

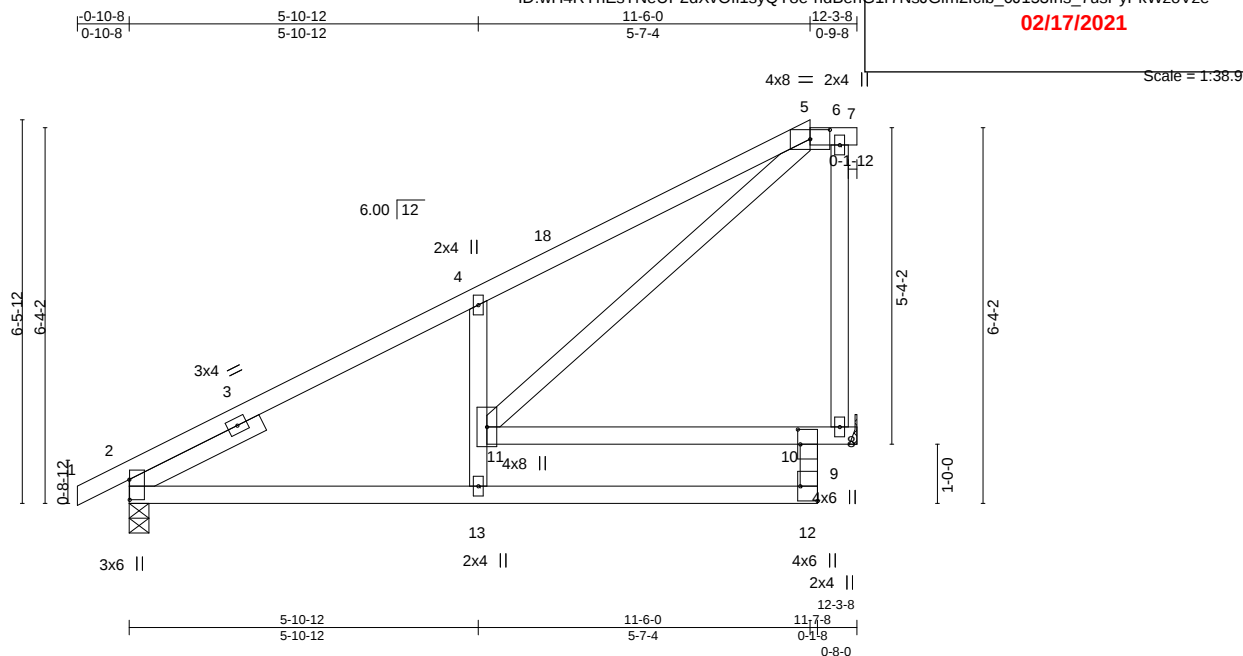


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [5:0-4-0,0-1-15], [10:0-3-0,0-0-8], [12:Edge,0-3-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.08 13-16	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.13 13-16	>999	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.05 9	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				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 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=603(LC 1), 9=550(LC 1)

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

TOP CHORD 2-4=-529/64, 4-5=-814/208
BOT CHORD 2-13=-189/546, 12-13=-113/366, 10-11=-366/113
WEBS 4-11=-528/284, 5-11=-299/841, 6-9=-418/192

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 100 lb uplift at joint(s) 2 except (jt=lb) 9=144.
- 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 5, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

D08

Truss Type

JACK-CLOSED

Qty

5

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

Lee's Summit, MO

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-9p107b2Tuh_AuuLFCKDqXDsFXt1PbPm252iyHyzoVzd

44677361

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

0-10-8

5-11-8

11-7-8

12-3-8

0-10-8

5-11-8

5-8-0

0-8-0

0-8-12

6-10-8

0-8-12

5-10-8

1-0-0

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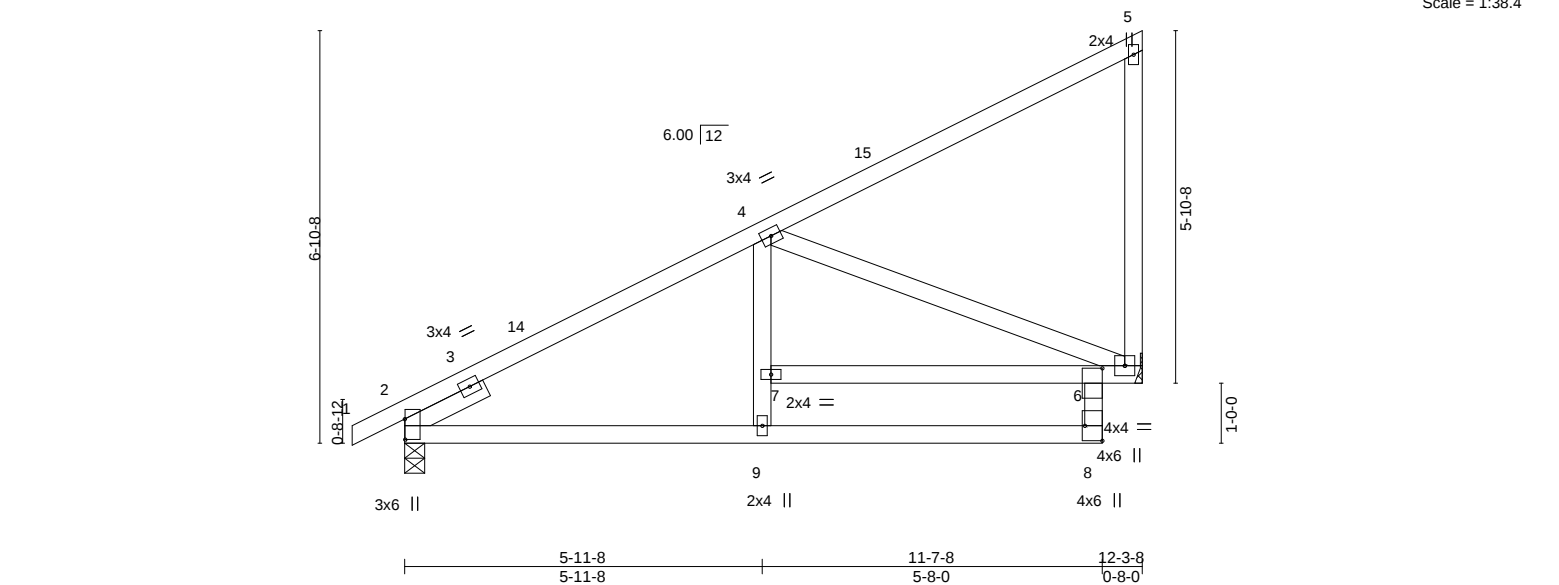


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [6:0-0-8,0-4-8], [8:Edge,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43
TCDL 10.0	Lumber DOL	1.15	BC 0.38
BCLL 0.0	Rep Stress Incr	YES	WB 0.57
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.06 6-7 >999 240
		Vert(CT)	-0.11 6-7 >999 180
		Horz(CT)	0.06 6 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 57 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 1-6-0		

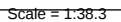
REACTIONS.		(size) 2=0-4-0, 6=Mechanical
		Max Horz 2=202(LC 12)
		Max Uplift 2=-36(LC 12), 6=-63(LC 12)
		Max Grav 2=641(LC 1), 6=624(LC 1)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-702/0	
BOT CHORD	2-9=-166/607, 8-9=-59/381, 6-8=-27/306, 6-7=-151/320	
WEBS	4-7=0/306, 4-6=-752/225	

- 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 100 lb uplift at joint(s) 2, 6.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021



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 1-6-0		

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

TOP CHORD	2-4=-675/131, 6-8=-66/366, 5-8=-66/366
BOT CHORD	2-7=-166/561, 6-7=-166/561
WEBS	4-7=0/252, 4-6=-599/170, 5-13=-517/136

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 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 5, 2021

Job

2630316

Truss

D10

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEES SUMMIT, MISSOURI

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-6CtmPH4kQIEu7CUdKIFlcxcTHjM3K8LYMB3LrzoVzb

02/17/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Scale = 1:37.5

0-10-8

6-2-11

12-1-14

12-3-8

0-10-8

6-2-11

5-11-3

0-1-10

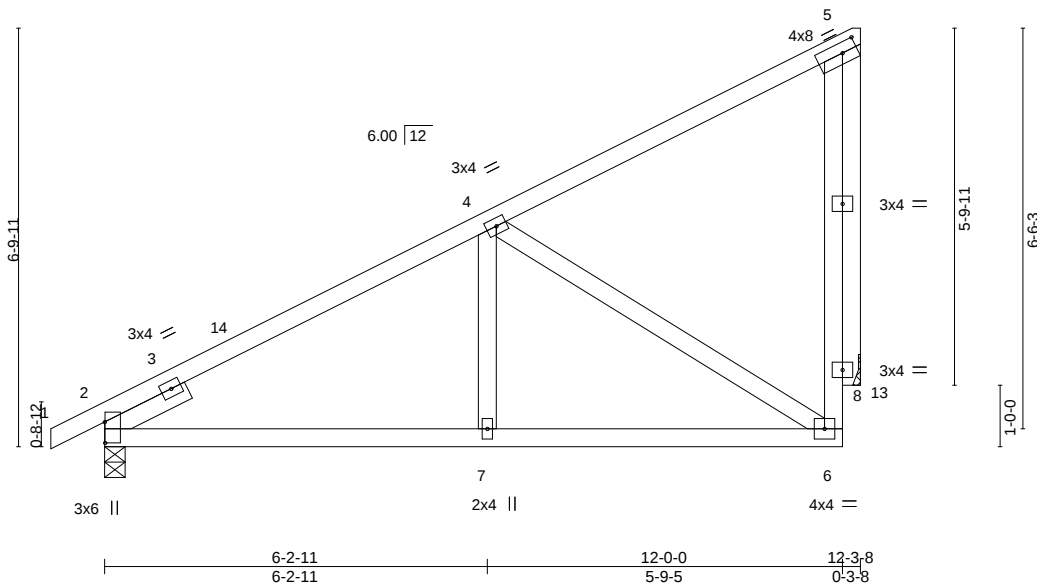


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [5:0-2-15,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.03	7-11	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.05	7-11	>999	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.02	13	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
				Weight: 57 lb		FT = 20%			

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

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=613(LC 1), 13=515(LC 1)

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

TOP CHORD 2-4=-651/33, 6-8=-80/369, 5-8=-80/369

BOT CHORD 2-7=-171/554, 6-7=-171/554

WEBS 4-7=0/253, 4-6=-596/193, 5-13=-517/153

- 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 ; end 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) 13=153.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5,2021

Job

2630316

Truss

D11

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-aOR9dd4MBcMlIM3quSnX9sUpXg3YoqDUn0wdtHzoVza

14677364

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

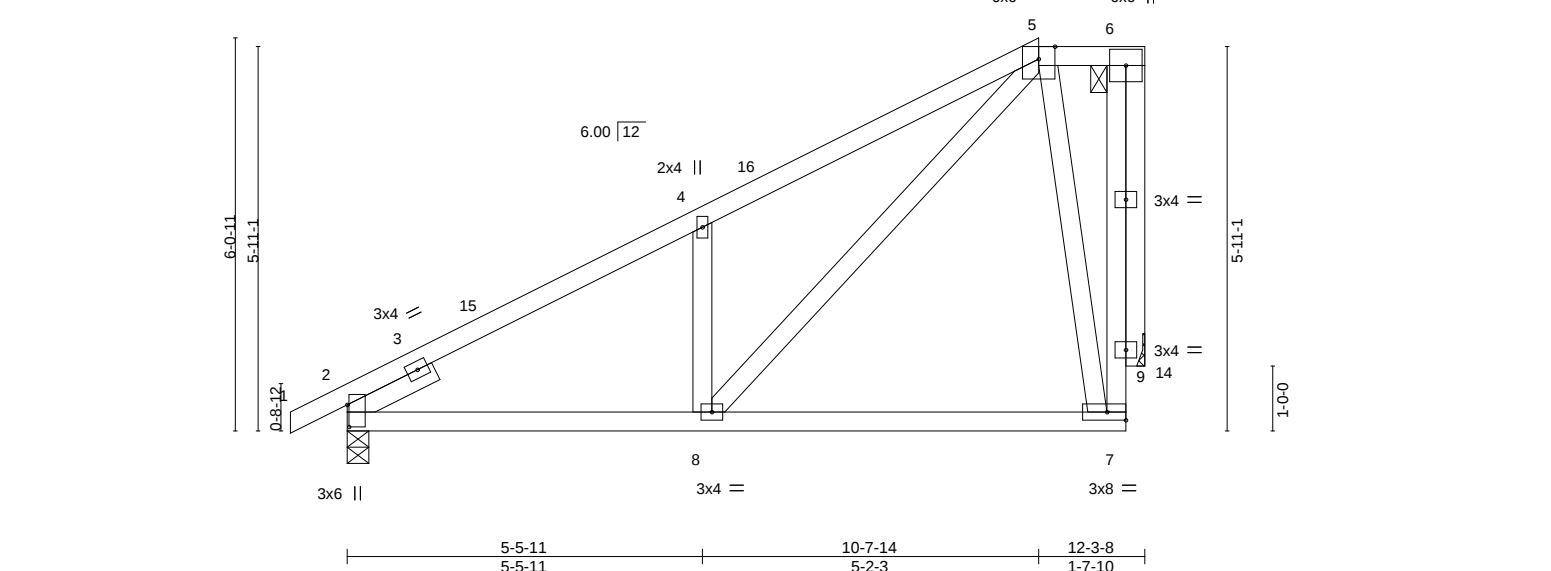


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25
TCDL 10.0	Lumber DOL	1.15	BC 0.29
BCLL 0.0	Rep Stress Incr	YES	WB 0.27
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.04 7-8 >999 240
			Vert(CT) -0.09 7-8 >999 180
			Horz(CT) -0.01 14 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.
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 1-6-0		

REACTIONS. (size) 2=0-4-0, 14=Mechanical
Max Horz 2=190(LC 12)
Max Uplift 2=-68(LC 12), 14=-123(LC 12)
Max Grav 2=613(LC 1), 14=515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-716/60, 4-5=-742/179, 7-9=-215/528, 6-9=-215/528
BOT CHORD 2-8=-221/590
WEBS 4-8=-366/209, 5-8=-216/662, 5-7=-476/244, 6-14=-517/175

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-14, Exterior(2E) 10-7-14 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 14=123.
 - 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 5,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION
2630316	D12	HALF HIP	1	1	Job Reference (optional)	AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES

8.240 s Mar 9 2020 MiTek Industries, Inc. ID: wH4RYhEsTNeUP2dXvOf1syQY8e-2a?Xqz5_yvUcMWe0RAImh31zv4M8XJBd0ggAQjoVzZ
 0-10-8 4-8-11 9-1-14 12-3-8 12-3-8 3-1-10
 0-10-8 4-8-11 4-5-3 3-1-10
 Scale = 1:31.2

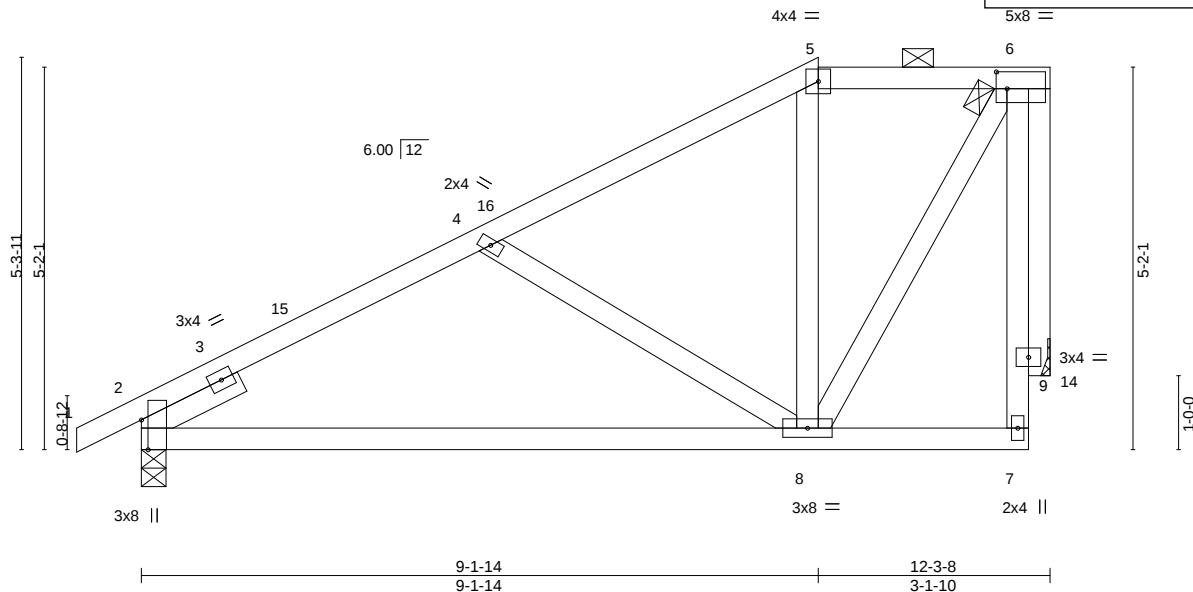


Plate Offsets (X,Y)-- [2:0-4-13,Edge], [6:0-1-12,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.11 8-12 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22 8-12 >669 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01 14 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				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 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=613(LC 25), 14=515(LC 25)

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

TOP CHORD 2-4=-668/125, 4-5=-405/54, 5-6=-300/91
 BOT CHORD 2-8=-257/594
 WEBS 4-8=-350/180, 6-8=-153/507, 6-14=-517/155

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 100 lb uplift at joint(s) 2, 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 5, 2021

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

2630316

Truss

D13

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-WmZv2J6cjDcT_gDC?tp?EHZ8dUkMGn8nFKPjy9zoVzY

14677366

02/17/2021

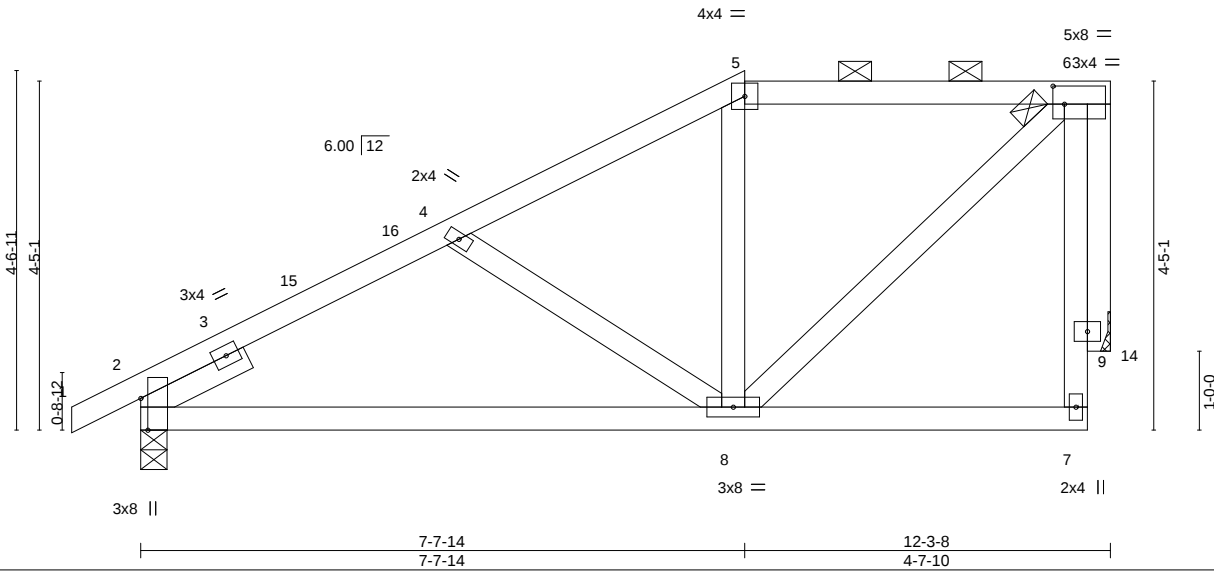
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AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S 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 0.21	Vert(LL)	-0.05	8-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.10	8-12	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						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 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=613(LC 1), 14=515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-723/154, 4-5=-514/101, 5-6=-418/125
BOT CHORD 2-8=-263/613
WEBS 6-8=-150/479, 6-14=-519/152

- 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(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
 - 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, 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 5, 2021

Job

2630316

Truss

D14

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

2630316/woodside ridge 40/mo

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-_z6HFf7EUXkKcpoOZaKEnU6Gwu4G?ALwT_9HUczoVzX

02/17/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

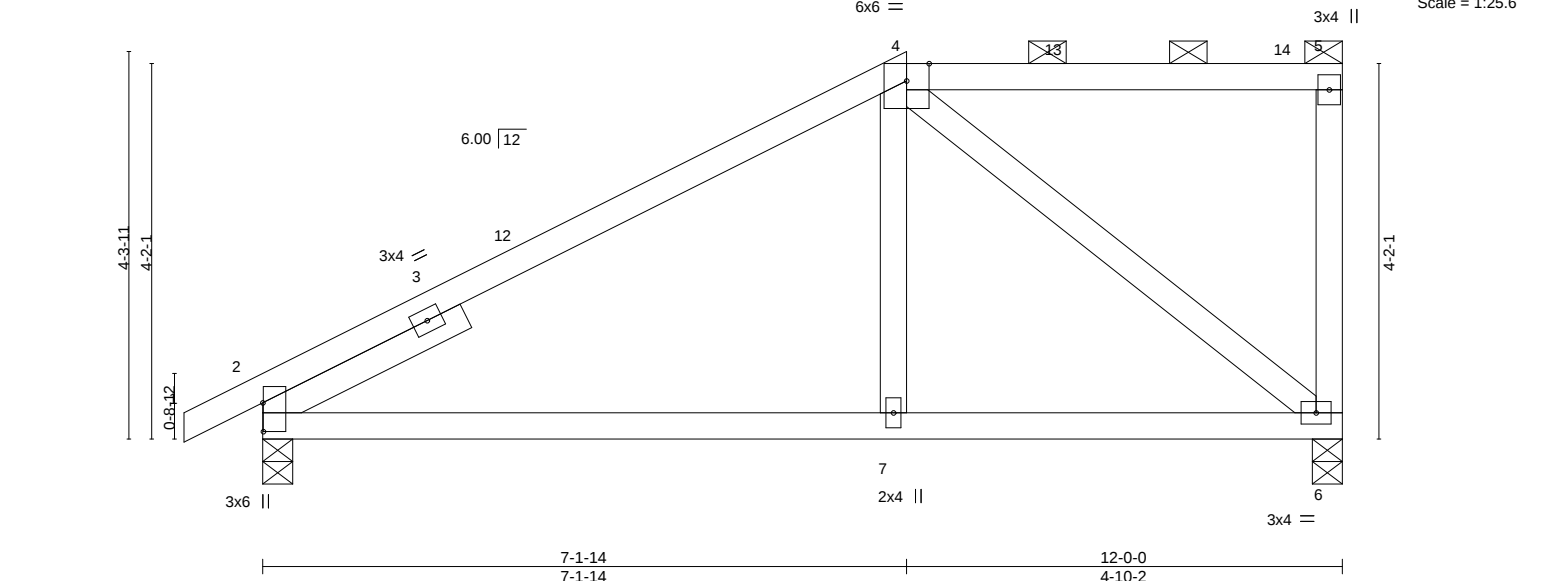


Plate Offsets (X,Y)--		[2:0-3-13,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43
TCDL 10.0	Lumber DOL	1.15	BC 0.35
BCLL 0.0	Rep Stress Incr	YES	WB 0.38
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.06 7-10 >999 240
			Vert(CT) -0.11 7-10 >999 180
			Horz(CT) 0.03 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 47 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 2-6-0		

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=147(LC 11)
Max Uplift 2=-87(LC 12), 6=-89(LC 9)
Max Grav 2=597(LC 1), 6=531(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-540/149
BOT CHORD 2-7=-220/462, 6-7=-221/456
WEBS 4-7=0/269, 4-6=-575/234

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



February 5,2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo
2630316	D15	ROOF SPECIAL GIRDER	1	1	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. 14672368

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

02/17/2021

Scale = 1:73.7

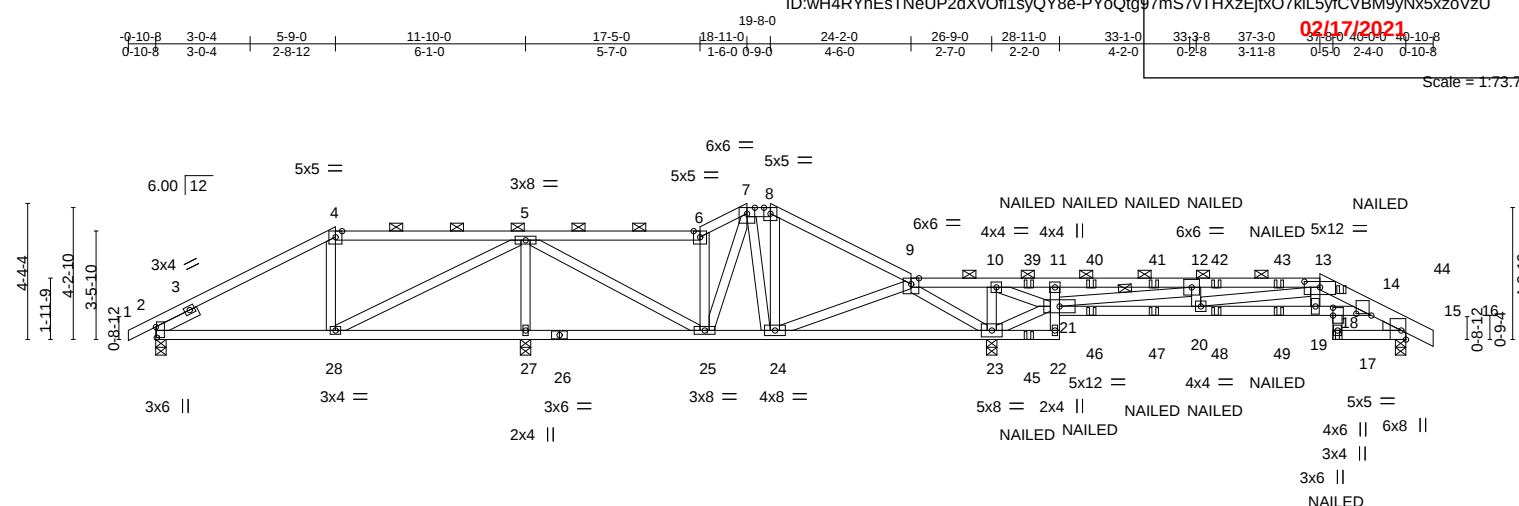


Plate Offsets (X,Y)--	[2:0-4-1,0-0-5], [13:0-6-0,0-2-3], [14:0-5-13,0-0-11], [15:Edge,0-1-13], [15:0-0-14,0-6-7], [15:0-0-7,0-0-14], [18:0-3-0,0-0-0]
-----------------------	---

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 0.55	Vert(LL)	-0.13 19-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.22 19-20	>716	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.43	Horz(CT)	0.06 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 167 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
13-16: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except
2-0-0 oc purlins (3-5-5 max.): 4-6, 7-8, 9-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 18-19
WEBS 1 Row at midpt 12-21

REACTIONS.

All bearings 0-4-0.
(lb) - Max Horz 2=-67(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-120(LC 8), 15=-179(LC 9),
27=-233(LC 36), 23=-355(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=573(LC 21), 15=833(LC 22), 27=1145(LC 25), 23=2104(LC 1)

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

TOP CHORD 2-4=-553/149, 4-5=-504/170, 5-6=-447/192, 6-7=-513/231, 7-8=-363/202, 8-9=-461/199,
9-10=-290/1728, 10-11=-88/657, 11-12=-55/424, 12-13=-2362/451, 13-14=-2136/427,
14-15=-655/164
BOT CHORD 2-28=-112/497, 24-25=-101/357, 23-24=-719/252, 11-21=-321/69, 20-21=-424/2362,
19-20=-362/2058, 18-19=-346/1974, 14-18=-293/1652, 15-17=-62/322
WEBS 5-28=-104/580, 5-27=-1015/289, 5-25=-164/565, 6-25=-454/185, 7-25=-126/303,
9-24=-139/913, 12-21=-2802/515, 12-20=-88/366, 10-23=-612/166, 21-23=-1655/344,
10-21=-236/1191, 9-23=-1302/251, 13-19=-107/531, 13-20=-64/311

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 120 lb uplift at joint 2, 179 lb uplift at joint 15, 233 lb uplift at joint 27 and 355 lb uplift at joint 23.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

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



February 5, 2021

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 02/17/2021
2630316	D15	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	J44677368

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
ID:wH4RYhEstNeUP2dXvOfi1syQY8e-PYoQtg97mS7vTHXzEjtxO7kL5yfCVBM9yNx5xzoVzU

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 9-13=-70, 13-16=-70, 22-29=-20, 18-21=-20, 17-36=-20
Concentrated Loads (lb)
Vert: 18=-116(F) 39=-46(F) 44=-4(F) 45=-35(F) 46=-156(F) 47=-156(F) 48=-156(F) 49=-156(F)

Job: 2630316

Truss: D16

Truss Type: ROOF SPECIAL

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

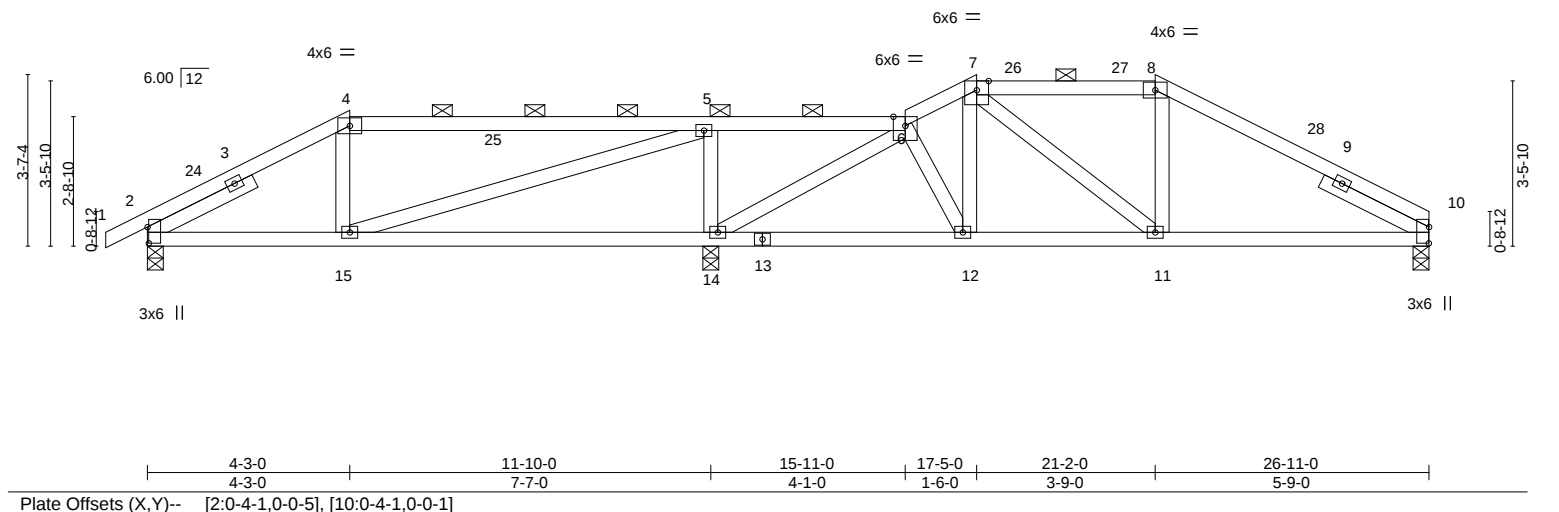
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc.

0-10-8 4-3-0 11-10-0 15-11-0 17-5-0 21-2-0 26-11-0

0-10-8 4-3-0 7-7-0 4-1-0 1-6-0 3-9-0 5-9-0

Scale: 1/4"=1'



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.07	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.15	14-15	>931	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS								
Weight: 104 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 (6-0-0 max.): 4-6, 7-8.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 10=0-4-0, 2=0-4-0, 14=0-4-0
 Max Horz 2=58(LC 16)
 Max Uplift 10=-83(LC 13), 2=-105(LC 12), 14=-180(LC 12)
 Max Grav 10=614(LC 1), 2=514(LC 1), 14=1355(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-538/131, 4-5=-540/153, 6-7=-631/176, 7-8=-681/200, 8-10=-776/180
 BOT CHORD 2-15=-117/530, 12-14=-101/514, 11-12=-82/566, 10-11=-98/682
 WEBS 5-15=-122/811, 5-14=-760/214, 6-14=-854/134

- 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 4-3-0, Exterior(2R) 4-3-0 to 7-3-0, Interior(1) 7-3-0 to 17-5-0, Exterior(2R) 17-5-0 to 20-5-0, Interior(1) 20-5-0 to 21-2-0, Exterior(2R) 21-2-0 to 24-2-0, Interior(1) 24-2-0 to 26-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 3x4 MT20 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 83 lb uplift at joint 10, 105 lb uplift at joint 2 and 180 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 5,2021

Job

2630316

Truss

D17

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,

8.240 s Mar 9 2020 MiTek Industries, Inc.

2630316/woodside ridge 40/mo

0-10-8

2-9-0

7-2-10

11-10-0

14-5-0

15-11-0

19-3-8

22-8-0

26-11-0

0-10-8

2-9-0

4-5-10

4-7-6

2-7-0

1-6-0

3-4-8

3-4-8

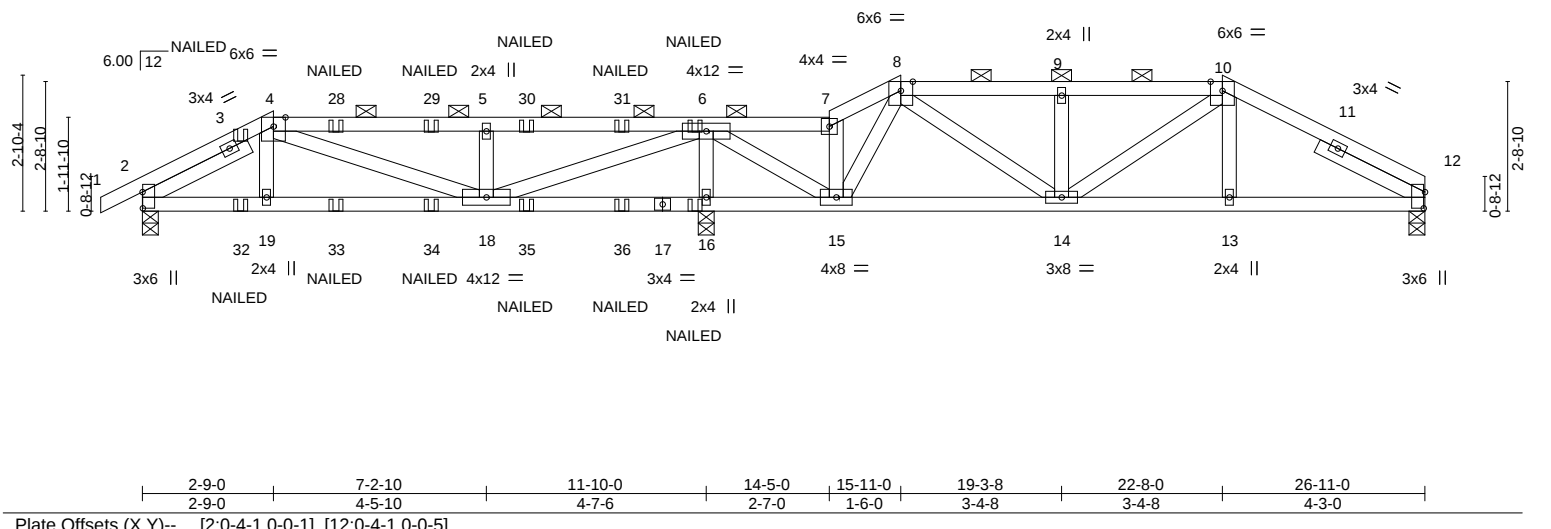
4-3-0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEF'S SUMMER, MISSOURI

02/17/2021

Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.04 18-19	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.08 18-19	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.43	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 107 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18,15-16.

REACTIONS. (size) 12=0-4-0, 2=0-4-0, 16=0-4-0
Max Horz 2=46(LC 12)
Max Uplift 12=-74(LC 30), 2=-158(LC 8), 16=-258(LC 4)
Max Grav 12=576(LC 1), 2=695(LC 21), 16=1743(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-895/204, 4-5=-866/214, 5-6=-863/212, 6-7=-257/154, 7-8=-270/176, 8-9=-776/173, 9-10=-776/173, 10-12=-747/132
BOT CHORD 2-19=-185/799, 18-19=-186/785, 16-18=-775/121, 15-16=-775/121, 14-15=-121/375, 13-14=-83/672, 12-13=-82/676
WEBS 5-18=-461/177, 6-18=-298/1738, 6-16=-1564/296, 6-15=-118/1078, 8-15=-469/94, 8-14=-77/531, 9-14=-294/103

- 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 74 lb uplift at joint 12, 158 lb uplift at joint 2 and 258 lb uplift at joint 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-7=-70, 7-8=-70, 8-10=-70, 10-12=-70, 20-24=-20



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 02/17/2021
2630316	D17	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.240 s Mar 9 2020 MiTek Industries, Inc. 14677370
LOAD CASE(S) Standard						ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-p7UYWiB?3NVTkKfYvrRe0IMJaJ7cPs2pswcbiGzoVzR
Concentrated Loads (lb)						
Vert: 6=-49(F) 16=-38(F) 3=-4(F) 28=-46(F) 29=-46(F) 30=-46(F) 31=-46(F) 32=-116(F) 33=-35(F) 34=-35(F) 35=-35(F) 36=-35(F)						

Job

2630316

Truss

E02

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEIS SUMMIT MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

2-4-0

4-1-14

8-7-11

11-1-0

13-5-0

0-10-8

2-4-0

1-9-14

4-5-13

2-5-5

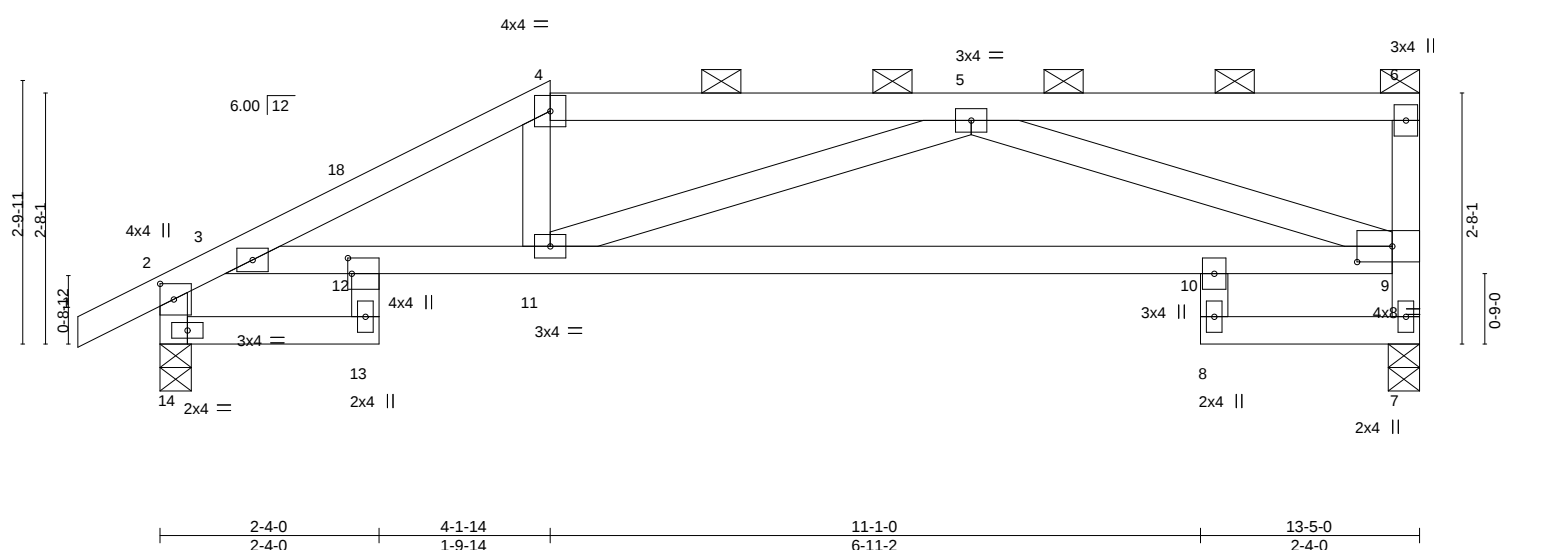
2-4-0

Scale = 1:24.5

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEIS SUMMIT MISSOURI

02/17/2021



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	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.26 10-11 >613 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06 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
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (5-5-12 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 7=0-4-0, 14=0-4-0
Max Horz 14=96(LC 9)
Max Uplift 7=-106(LC 9), 14=-73(LC 12)
Max Grav 7=588(LC 1), 14=665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-449/108, 3-4=-1220/234, 4-5=-1063/245, 7-9=-546/127, 2-14=-651/201
BOT CHORD 3-12=-147/870, 11-12=-291/1083, 10-11=-289/1101, 9-10=-238/1173
WEBS 4-11=0/320, 5-9=-1002/338

- 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 4-1-14, 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 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 106 lb uplift at joint 7 and 73 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 5, 2021

Job

2630316

Truss

E03

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-Di9h8kEuMit2BC_7bz_LeO_ocW64cFZFYuqFJazoVzO

144672372

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

0-10-8

2-4-0

4-7-14

8-8-7

11-1-0

13-4-0

0-10-8

2-4-0

2-3-14

4-0-9

2-4-9

2-3-0

02/17/2021

Scale = 1:26.0

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 0.50	Vert(LL)	-0.08 10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.17 10-11	>931	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.04 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
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-10-2 max.): 4-6.
WEBS 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
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=667(LC 25), 18=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-441/84, 3-4=-1113/226, 4-5=-965/241, 6-9=-74/408, 2-14=-657/199
BOT CHORD 3-12=-126/775, 11-12=-256/979, 10-11=-235/948, 9-10=-186/983
WEBS 4-11=0/269, 5-9=-813/285, 6-18=-565/116

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 74 lb uplift at joint 14 and 95 lb uplift at joint 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 5,2021

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

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

16023 Swingley Ridge Rd

Chesterfield, MO 63017

MiTek®

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job

2630316

Truss

E04

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LE'S SUMMIT MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-huj3L4EW7b?voMZJ8hVaBbWyLwQULjNOnYapr1zoVzN

02/17/2021

Scale = 1:26.9

0-10-8

2-4-0

6-1-14

11-1-0

13-4-0

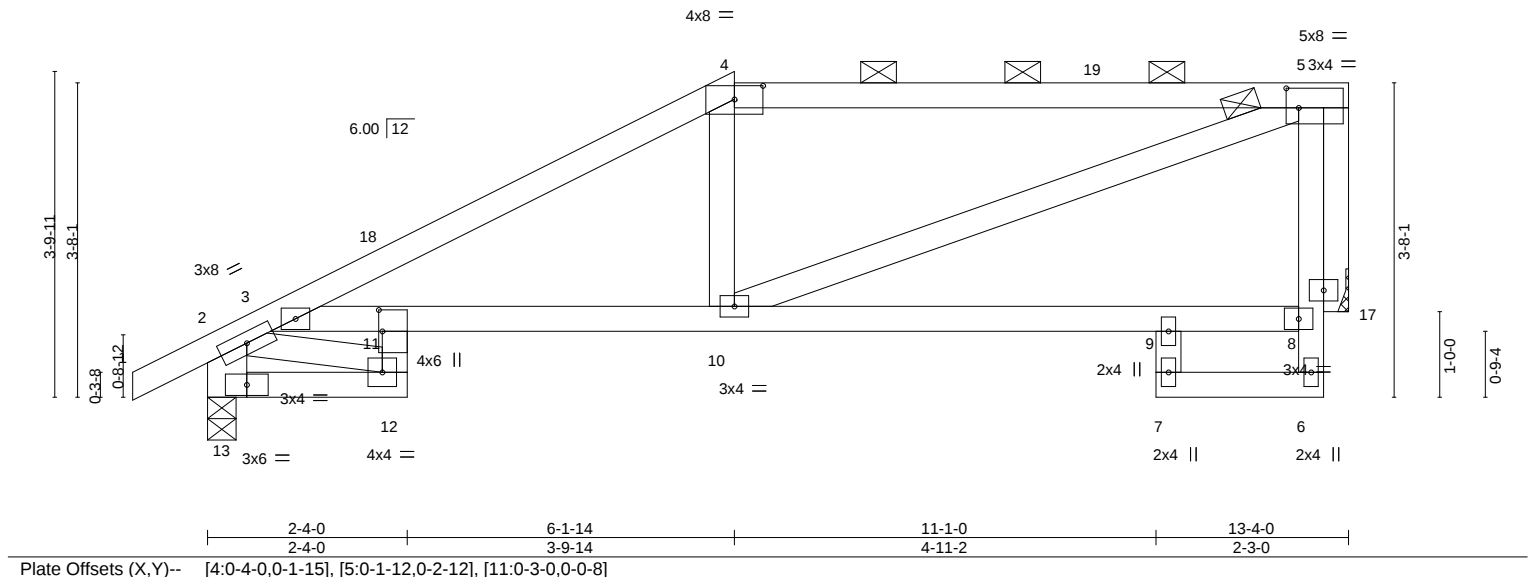
0-10-8

2-4-0

3-9-14

4-11-2

2-3-0



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 0.57	Vert(LL)	-0.07 10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.13 10-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.05 17	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
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-2-0 max.): 4-5.
WEBS 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
2-13: 2x6 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	(size)
13=0-4-0, 17=Mechanical	
Max Horz 13=100(LC 12)	
Max Uplift 13=-82(LC 12), 17=-91(LC 9)	
Max Grav 13=667(LC 1), 17=550(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-482/72, 3-4=-954/202, 4-5=-830/236, 2-13=-664/190
BOT CHORD	3-11=-98/567, 10-11=-247/825
WEBS	5-10=-229/686, 5-17=-561/130

- 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 6-1-14, Exterior(2R) 6-1-14 to 10-4-13, Interior(1) 10-4-13 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 82 lb uplift at joint 13 and 91 lb uplift at joint 17.
 - This truss 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 5, 2021

Job

2630316

Truss

E05

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMER MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-A4HRZPF8uv7mQW8WIO1pip3AgKn54Bfy?CJMNTzoVzM

02/17/2021

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 = 1:29.9

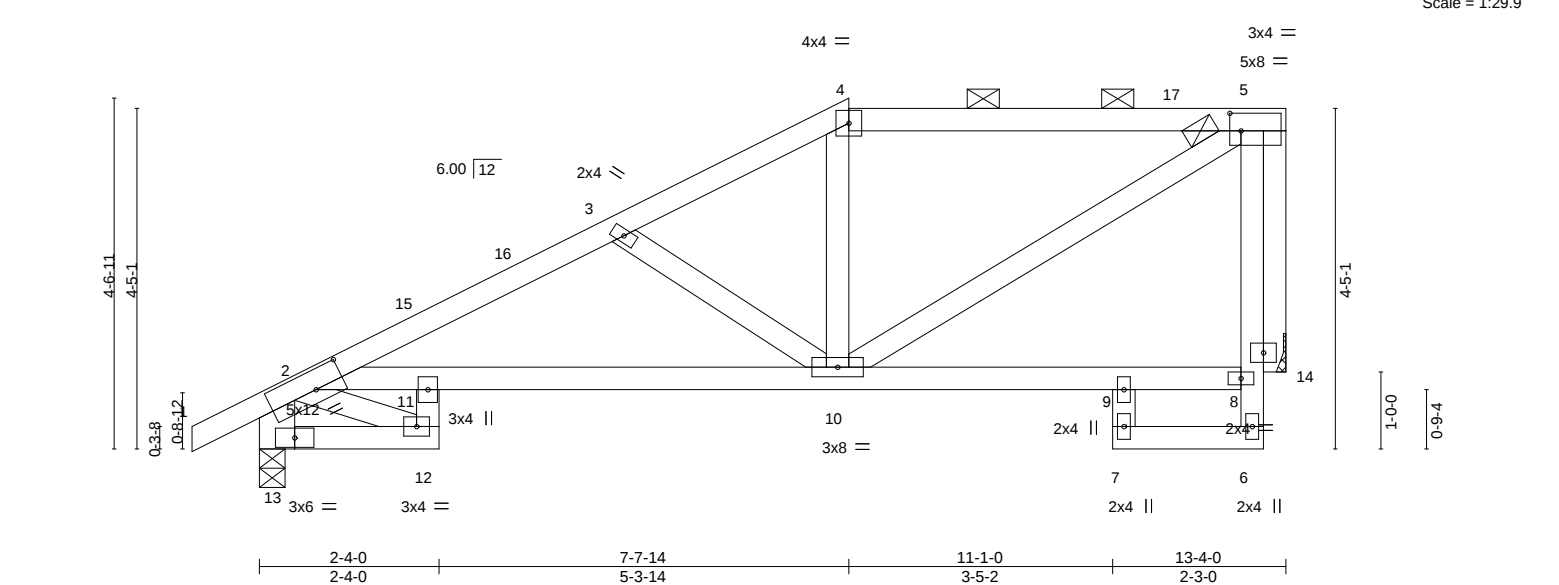


Plate Offsets (X,Y)--		[2:0-4-8,0-3-0], [5:0-1-12,0-2-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.07 10-11 >999 240	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.16 10-11 >957 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.06 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
BOT CHORD	2x4 SPF No.2	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS	2x4 SPF No.2 *Except*		Rigid ceiling directly applied.
	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=667(LC 1), 14=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-984/241, 3-4=-728/170, 4-5=-615/178, 2-13=-673/161
BOT CHORD	2-11=-253/698, 10-11=-336/857
WEBS	5-10=-184/599, 3-10=-292/172, 5-14=-556/141

- 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 77 lb uplift at joint 13 and 85 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 5, 2021

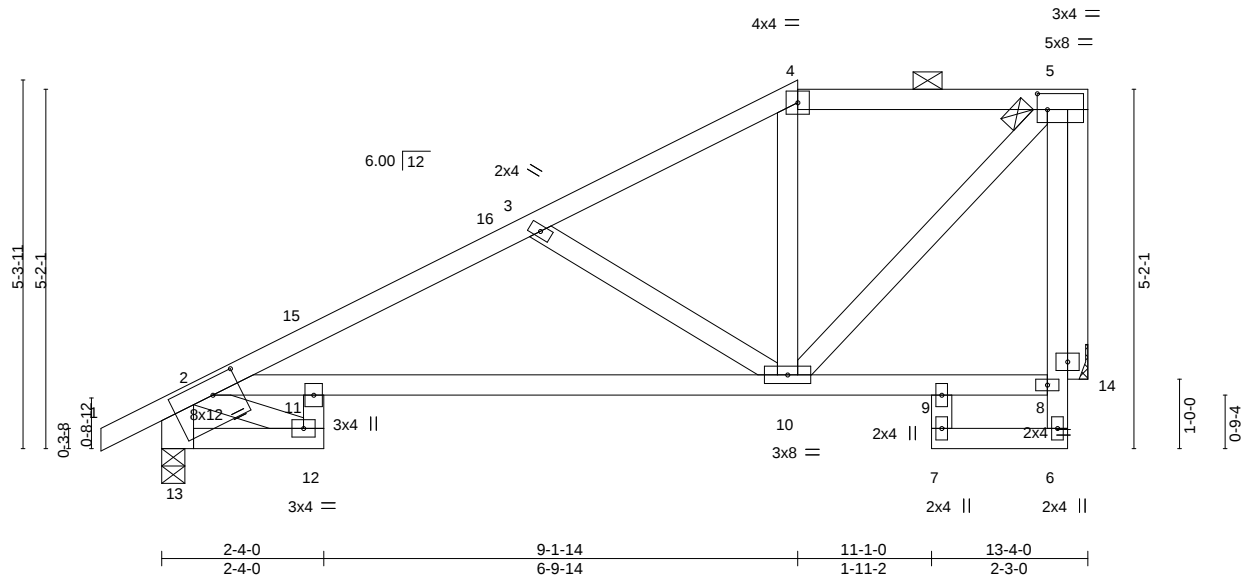


Plate Offsets (X,Y)-- [2:0-4-12,0-2-12], [5:0-1-12,0-2-12], [13:0-0-13,0-1-9]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.13	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.30	10-11	>528	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.08	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 65 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 *Except*	BOT CHORD	Rigid ceiling directly applied.
	2-13: 2x6 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 13=0-4-0, 14=Mechanical
 Max Horz 13=151(LC 12)
 Max Uplift 13=-77(LC 12), 14=-83(LC 12)
 Max Grav 13=667(LC 25), 14=550(LC 25)

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

TOP CHORD	2-3=-918/204, 3-4=-575/117, 4-5=-455/136, 2-13=-652/150
BOT CHORD	2-11=-230/650, 10-11=-322/796
WEBS	5-10=-173/571, 3-10=-405/202, 5-14=-553/149

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=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
- 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) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 13 and 83 lb uplift at joint 14.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5, 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 02/17/2021
2630316	E07	Half Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. See ID: wH4RYhEsTNeUP2dXvOf1syQY8e-afzaBRH0BqVLHzs5NXaXLRhh8XstHWi_hAY0_ozoVzJ

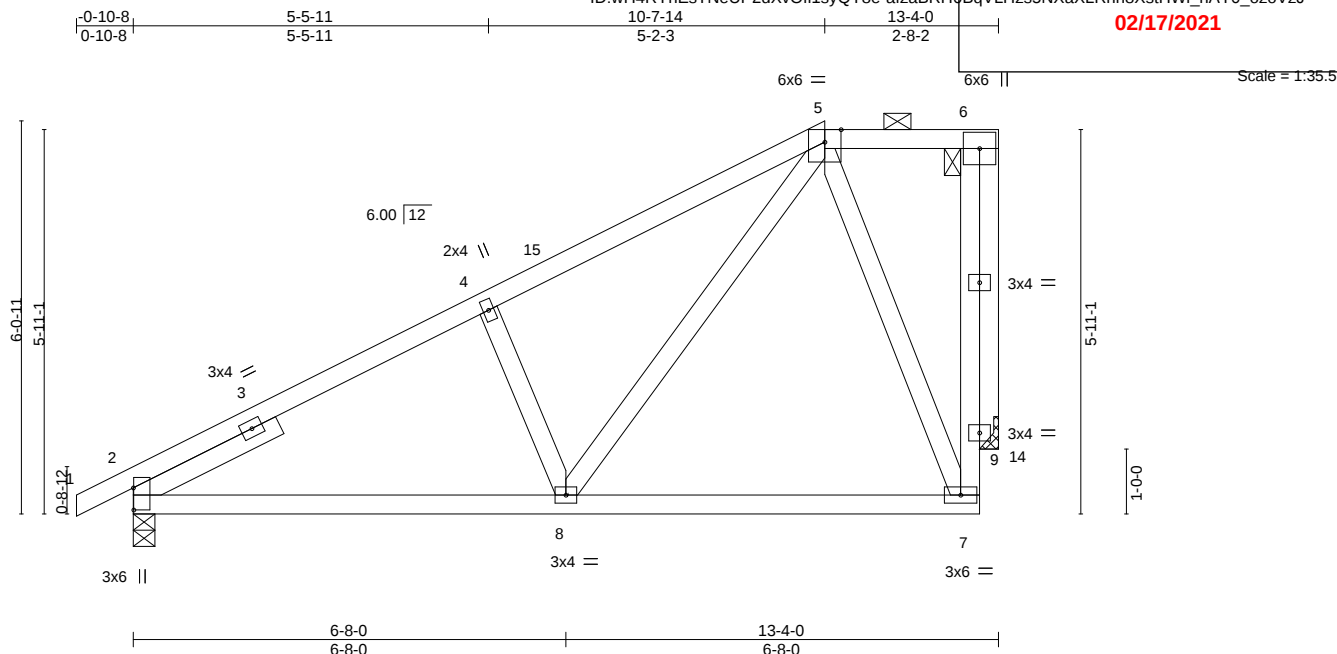


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1]									
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.07	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.32	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 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=656(LC 1), 14=565(LC 1)

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

TOP CHORD 2-4=-667/86, 4-5=-677/127, 7-9=-170/519, 6-9=-170/519
BOT CHORD 2-8=-239/653
WEBS 4-8=-331/177, 5-8=-134/540, 5-7=-496/206, 6-14=-567/165

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, Exterior(2E) 10-7-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 77 lb uplift at joint 2 and 114 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 5, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

E08

Truss Type

Half Hip

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-2rWyp1fy8dCv7RHxE5mtfEt5x820zv8wqHaWEzoVzl

Lee's Summit, Missouri

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:39.8

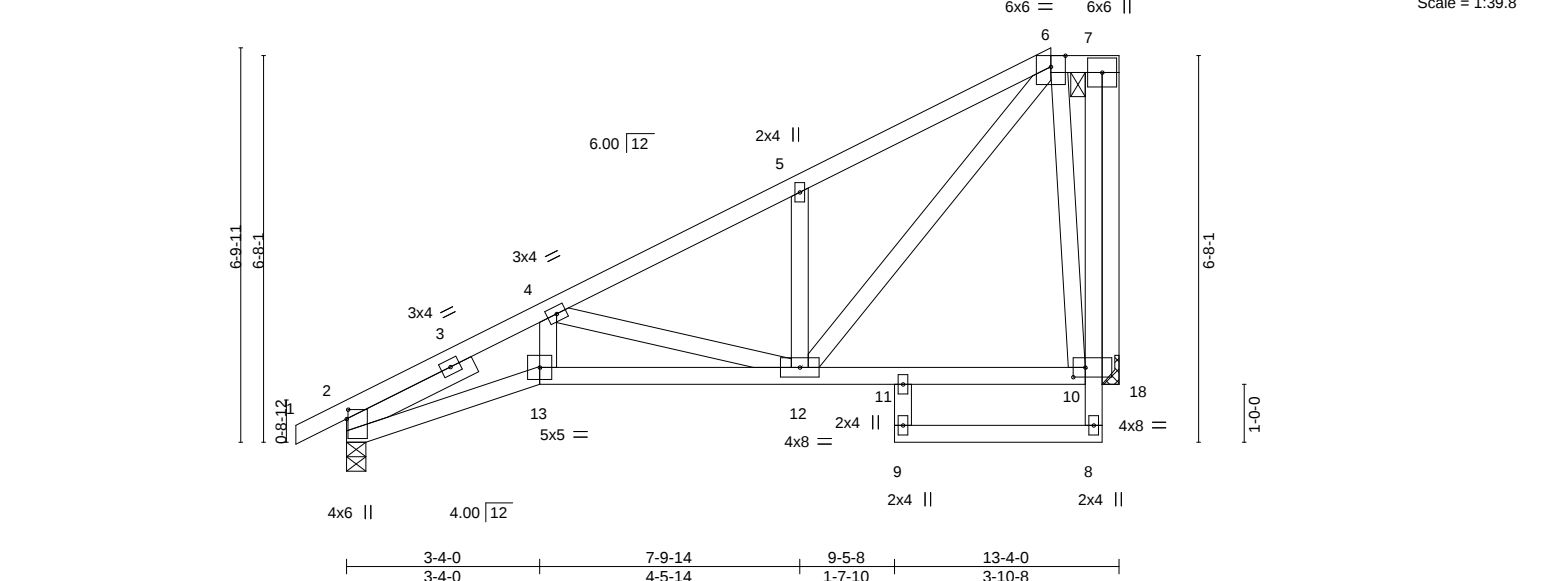


Plate Offsets (X,Y)--		[2:0-1-15,0-0-5], [10:0-2-8,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25
TCDL 10.0	Lumber DOL	1.15	BC 0.53
BCLL 0.0	Rep Stress Incr	YES	WB 0.26
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.06	12-13	>999 240
Vert(CT)	-0.11	12-13	>999 180
Horz(CT)	0.05	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 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=656(LC 1), 18=565(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1482/298, 4-5=-732/87, 5-6=-770/191, 7-10=-208/536
BOT CHORD 2-13=-481/1327, 12-13=-444/1221
WEBS 4-13=-107/405, 4-12=-620/250, 5-12=-363/184, 6-12=-259/831, 6-10=-500/230, 7-18=-566/188

- 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 66 lb uplift at joint 2 and 149 lb uplift at joint 18.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5,2021

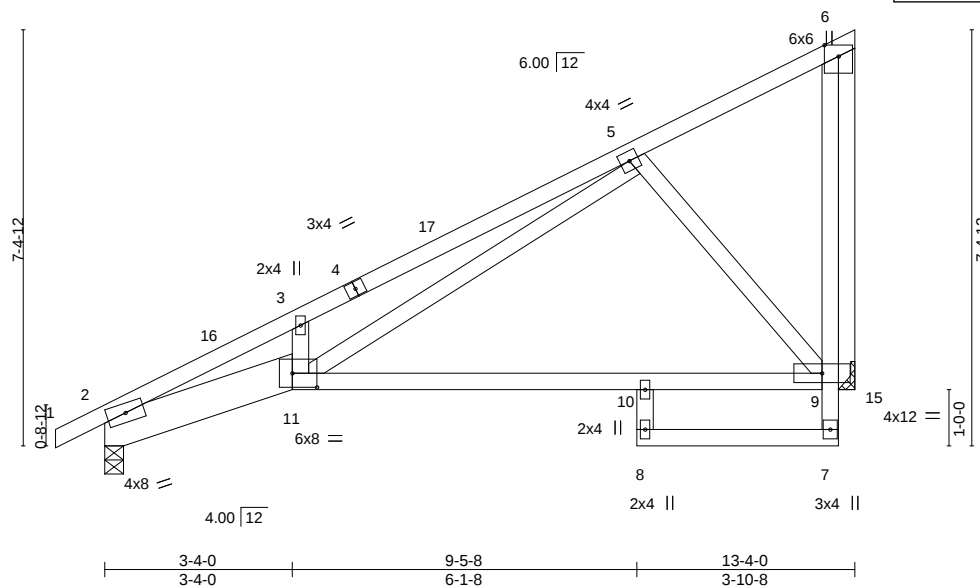


Plate Offsets (X,Y)-- [11:0-5-4,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.22	10-11	>720	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.47	10-11	>335	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							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=656(LC 1), 15=565(LC 1)

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

TOP CHORD	2-3=-1686/194, 3-5=-1766/307, 6-9=-108/516
BOT CHORD	2-11=-376/1510, 10-11=-142/407, 9-10=-144/389
WEBS	3-11=-300/158, 5-9=-551/190, 5-11=-295/1331, 6-15=-566/137

NOTES-

- 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 2-1-8, 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 54 lb uplift at joint 2 and 96 lb uplift at joint 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 5, 2021



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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

E10

Truss Type

JACK-CLOSED

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e- EejpTKVtIiv8Rbg3f8Ez4JANKp2UnNQ07mgb7zoVzG

02/17/2021

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:41.0

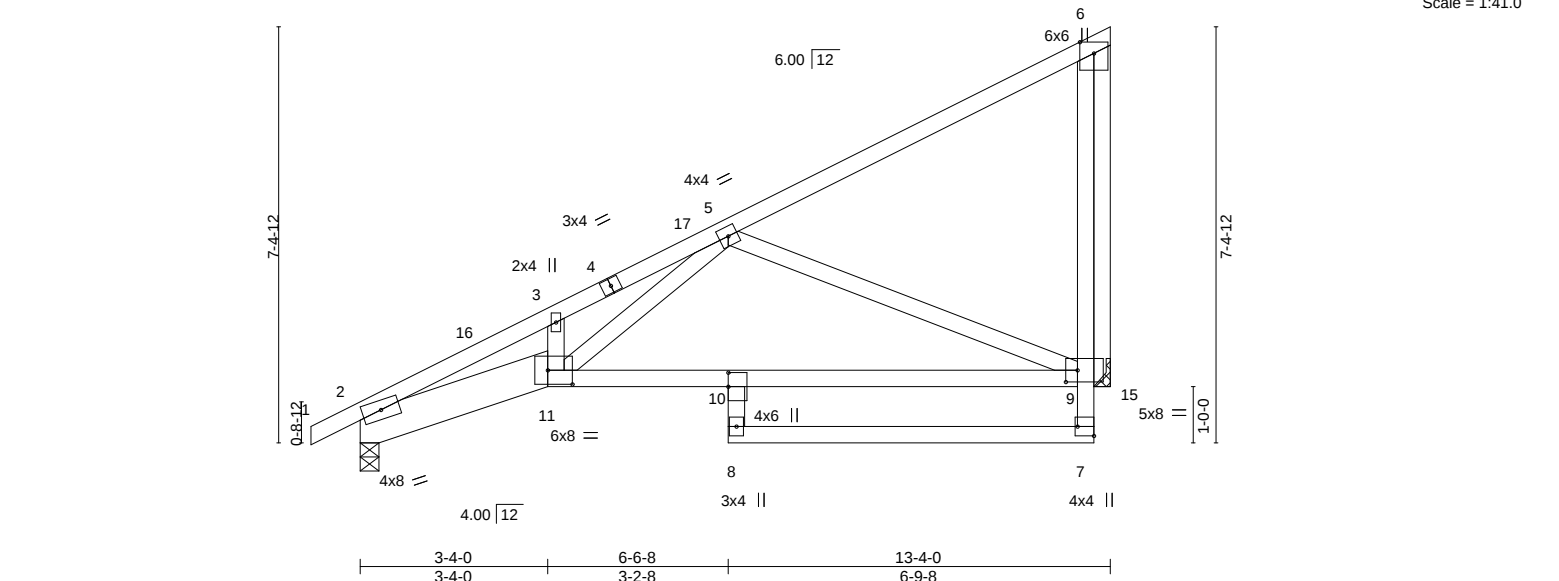


Plate Offsets (X,Y)--		[7:Edge,0-3-8], [9:0-2-8,0-2-8], [10:0-3-0,0-0-0], [11:0-5-4,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.39	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.11 8 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.24 8 >651 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 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=656(LC 1), 15=565(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1594/164, 3-5=-1528/210, 6-9=-58/386
 BOT CHORD 2-11=-343/1408, 10-11=-247/743, 9-10=-283/616
 WEBS 5-11=-139/835, 5-9=-756/233, 6-15=-567/137

- 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 54 lb uplift at joint 2 and 96 lb uplift at joint 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 5, 2021

Job

2630316

Truss

E11

Truss Type

JACK-CLOSED

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOfi1syQY8e-SQC51pLXE30mmaAscMTTVHsLg8DbDEacnWE7ZzoVzF

02/17/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LE'S SUMMIT, MISSOURI

02/17/2021

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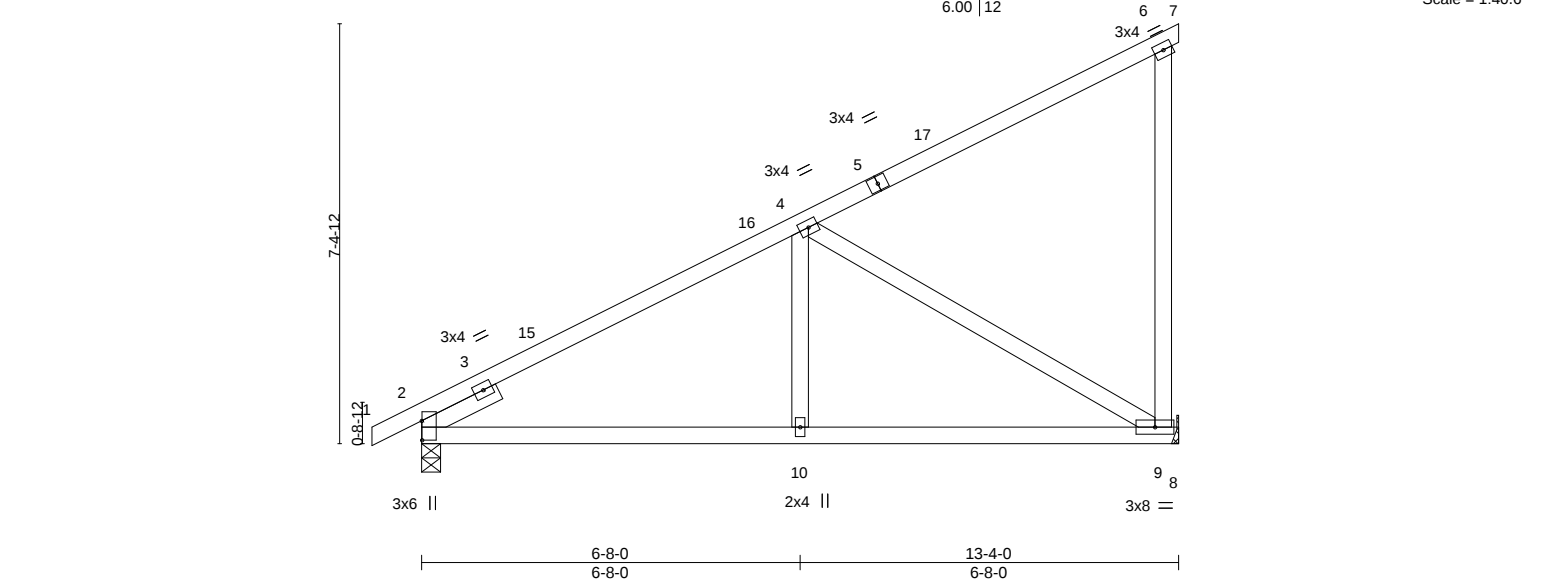


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.42
TCDL 10.0	Lumber DOL	1.15	BC 0.34
BCLL 0.0	Rep Stress Incr	YES	WB 0.64
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.04 9-10 >999 240
			Vert(CT) -0.08 9-10 >999 180
			Horz(CT) 0.01 9 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.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 1-6-0	

REACTIONS.	(size) 2=0-4-0, 9=Mechanical
	Max Horz 2=265(LC 11)
	Max Uplift 2=-74(LC 12), 9=-83(LC 9)
	Max Grav 2=651(LC 1), 9=597(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-712/141
BOT CHORD	2-10=-258/605, 9-10=-258/605
WEBS	4-10=0/282, 4-9=-678/211

- 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 74 lb uplift at joint 2 and 83 lb uplift at joint 9.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5,2021

Job

2630316

Truss

E12

Truss Type

HALF HIP

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMIT MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-PpKrSUMmngGU?uKEknhxaixhtyvsh7Wt45?KBSzoVzD

02/17/2021

0-10-8

6-7-12

13-0-0

13-4-0

0-10-8

6-7-12

6-4-4

0-4-0

5x5

5

7-0-13

Scale = 1:40.3

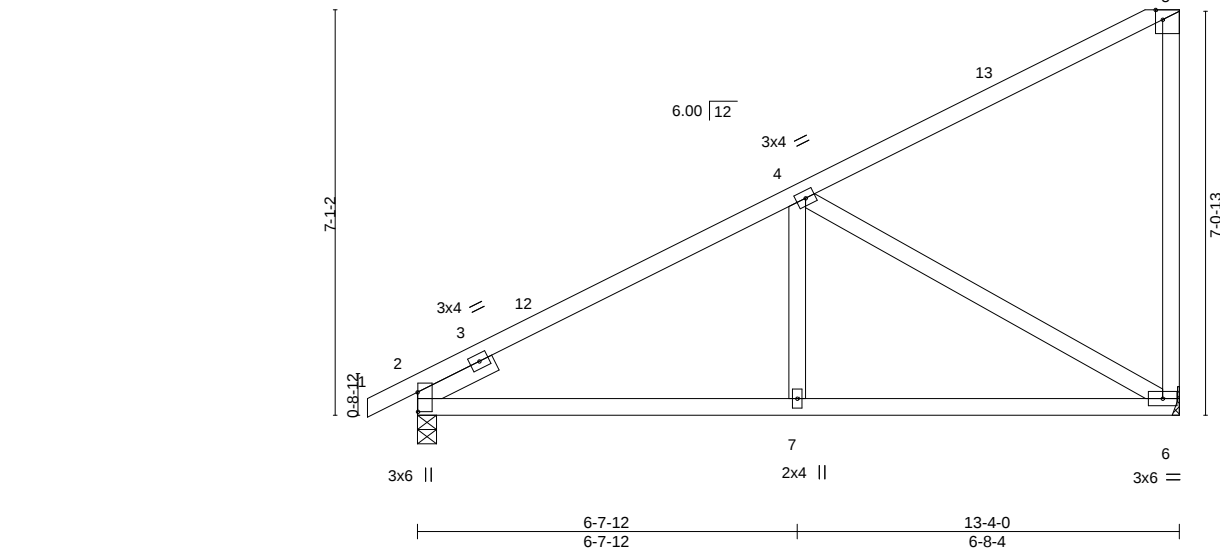


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [5:0-2-1,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43
TCDL 10.0	Lumber DOL	1.15	BC 0.36
BCLL 0.0	Rep Stress Incr	YES	WB 0.68
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.05 6-7 >999 240
			Vert(CT) -0.09 6-7 >999 180
			Horz(CT) 0.01 6 n/a n/a
			PLATES
			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 1-6-0	

REACTIONS. (size) 2=0-4-0, 6=Mechanical
Max Horz 2=265(LC 11)
Max Uplift 2=-90(LC 12), 6=-142(LC 12)
Max Grav 2=657(LC 1), 6=591(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-727/143
BOT CHORD 2-7=-252/619, 6-7=-252/619
WEBS 4-7=0/287, 4-6=-693/215

- 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 13-2-4 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 90 lb uplift at joint 2 and 142 lb uplift at joint 6.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5,2021

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 02/17/2021
2630316	E13	HALF HIP	1	1	Job Reference (optional)	J44672382

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

8.240 s Mar 9 2020 MiTek Industries, Inc. See ID:W4RYhEsTNeUP2dXvOf1syQY8e-t?uDrqNPX_Old2vRIVCA7wTurMFuQfb0IlkukuzoVzC

0-10-8 5-10-12 11-6-0 13-4-0
0-10-8 5-10-12 5-7-4 1-10-0

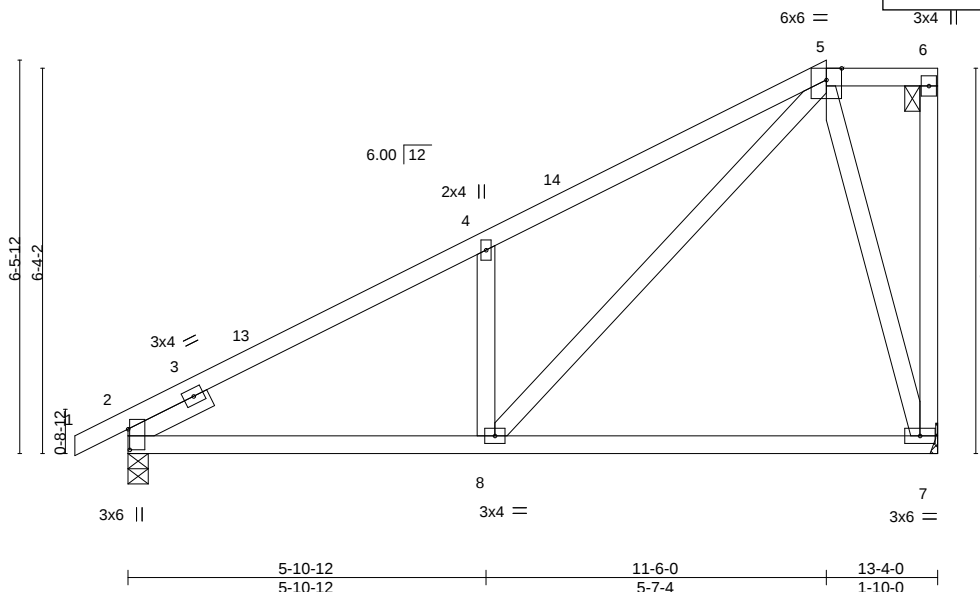


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC 0.29		Vert(LL) -0.08 7-8		>999 240		MT20 197/144	
TCDL	10.0	Lumber DOL 1.15		BC 0.37		Vert(CT) -0.16 7-8		>996 180			
BCLL	0.0	Rep Stress Incr YES		WB 0.37		Horz(CT) 0.01 7		n/a n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 61 lb FT = 20%	

LUMBER-

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

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, 7=Mechanical
Max Horz 2=228(LC 11)
Max Uplift 2=-97(LC 12), 7=-108(LC 12)
Max Grav 2=657(LC 25), 7=591(LC 1)

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

TOP CHORD 2-4=-790/145, 4-5=-816/254
BOT CHORD 2-8=-279/650
WEBS 4-8=-397/215, 5-8=-219/736, 5-7=-539/308

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 97 lb uplift at joint 2 and 108 lb uplift at joint 7.
- 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 5, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/17/2021
2630316	E14	HALF HIP	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. File: 561033-003 Page: 1						
ID:w4H4RyHsTnEUp2dXv0f1syQY8e-LCScAO2IHWCFUdrCjPg703slXH98H9XPURGKzovZb						
-0-10-8		5-1-12		10-0-0		13-4-0
0-10-8		5-1-12		4-10-4		3-4-0
				4x4 =		4x4 =
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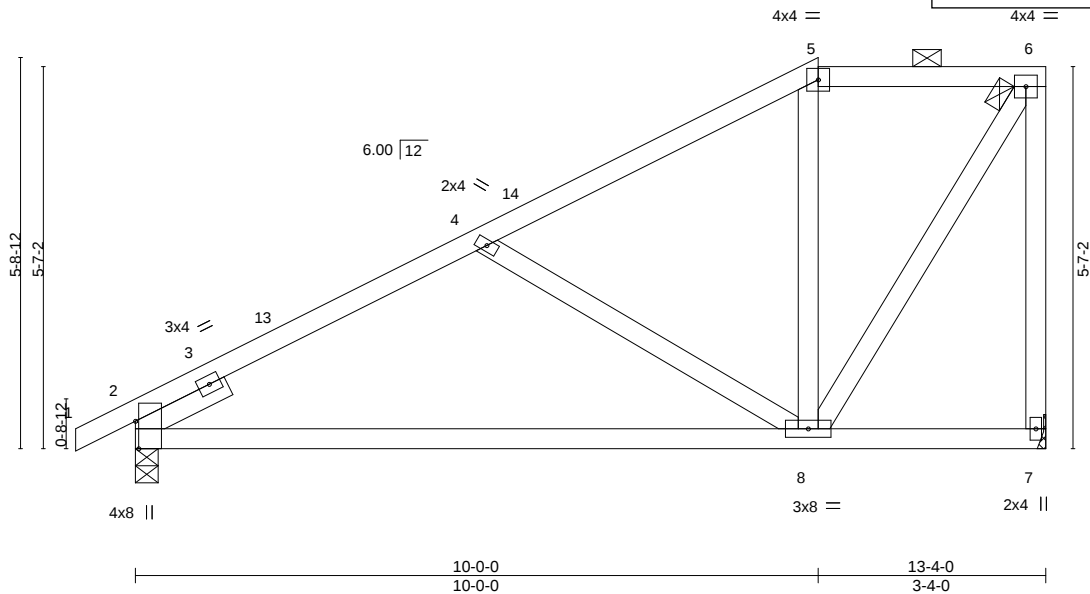


Plate Offsets (X,Y)-- [2:0-4-13,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.16 8-11 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.32 8-11 >495	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02 2 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					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 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=591(LC 1), 2=657(LC 1)

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

TOP CHORD 2-4=-785/176, 4-5=-431/122, 5-6=-317/137, 6-7=-594/206
BOT CHORD 2-8=-319/648
WEBS 4-8=-392/184, 6-8=-207/588

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 truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 7 and 98 lb uplift at 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 5, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

G01

Truss Type

HIP GIRDER

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEIS SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

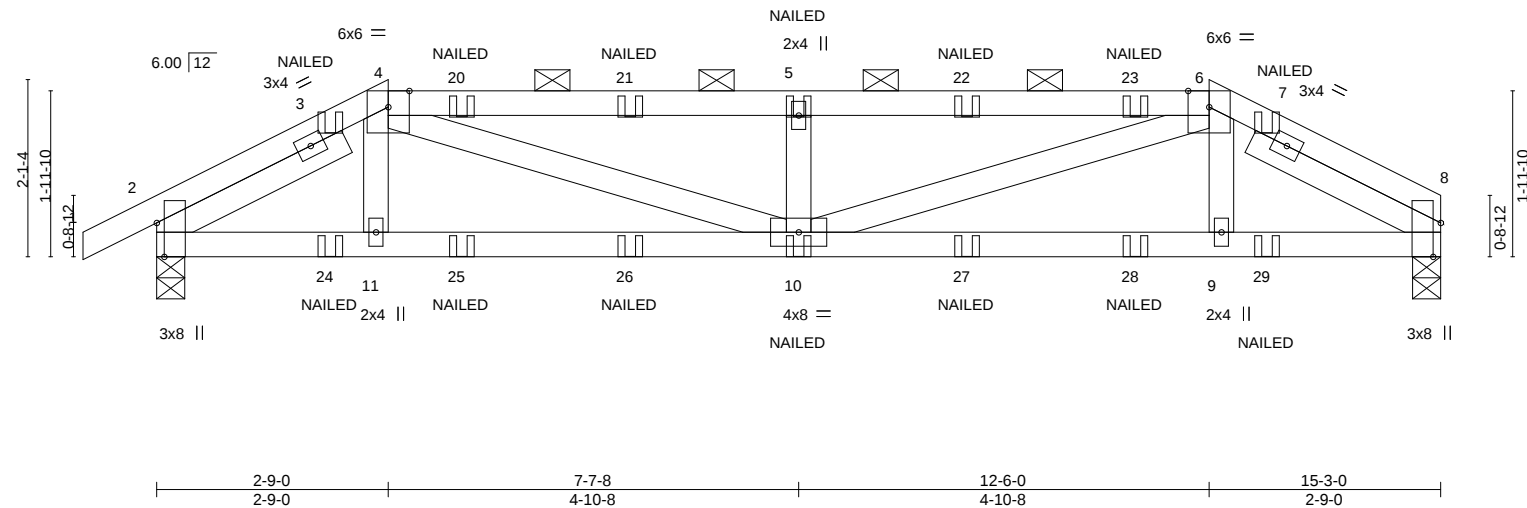
Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-HaZMISPlqvmwUVd0zdm1Y5KRZCed1dS?jzYKDzoVz9

15-2-9

02/17/2021

Scale = 1:27.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.09	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17				
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 59 lb		FT = 20%	

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

REACTIONS.	
(size)	8=0-4-0, 2=0-4-0
Max Horz	2=34(LC 8)
Max Uplift	8=-190(LC 9), 2=-207(LC 8)
Max Grav	8=1005(LC 1), 2=1070(LC 1)

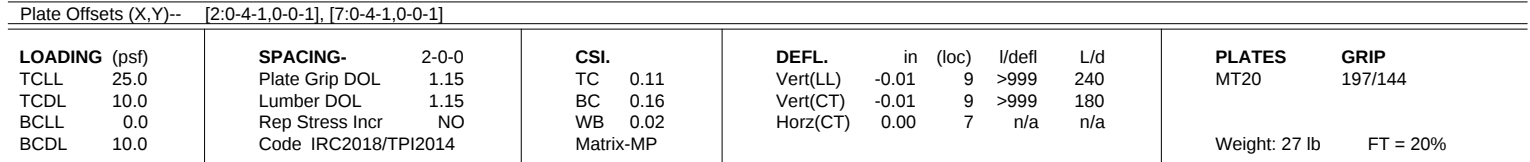
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1571/290, 4-5=-2477/456, 5-6=-2477/456, 6-8=-1581/293
BOT CHORD	2-11=-255/1388, 10-11=-257/1375, 9-10=-243/1386, 8-9=-240/1399
WEBS	4-10=-213/1184, 5-10=-579/208, 6-10=-213/1177

- 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 190 lb uplift at joint 8 and 207 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.
 - "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=-70, 4-6=-70, 6-8=-70, 12-16=-20	
Concentrated Loads (lb)	
Vert: 10=-35(B) 5=-46(B) 3=-4(B) 7=-4(B) 20=-46(B) 21=-46(B) 22=-46(B) 23=-46(B) 24=-116(B) 25=-35(B) 26=-35(B) 27=-35(B) 28=-35(B) 29=-116(B)	



February 5, 2021



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-450/101, 4-5=-377/94, 5-7=-450/101
BOT CHORD 2-10=-57/381, 9-10=-60/377, 7-9=-59/381

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2 and 88 lb uplift at 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) 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).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-5=-70, 5-8=-70, 11-15=-20
Concentrated Loads (lb)
Vert: 19=-4(B) 20=-46(B) 21=-4(B) 22=-35(B)



February 5, 2021



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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

H02

Truss Type

COMMON

Qty

4

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-i9FVwuSA7q8VLzMbeJJaNBjzzmM9qSOvhhBCxYZoVz6

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

0-10-8

3-8-0

3-8-0

7-4-0

3-8-0

8-2-8

0-10-8

02/17/2021

Scale = 1:18.9

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

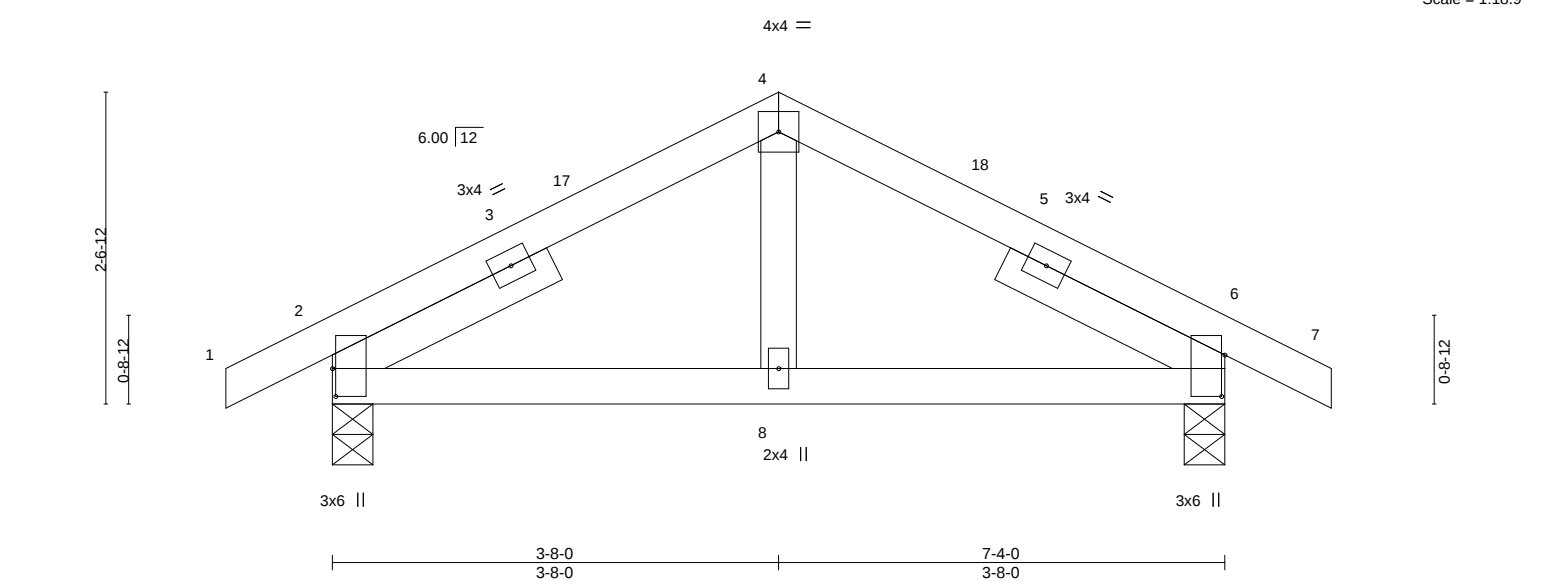


Plate Offsets (X,Y)--		[2:0-2-12,0-0-5], [6:0-4-1,0-0-5]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.12	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(LL) -0.01 8-15 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Vert(CT) -0.01 8-15 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.00 2 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 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 2-0-3, Right 2x4 SPF No.2 2-0-3		

REACTIONS.	
(size)	2=0-4-0, 6=0-4-0
Max Horz	2=36(LC 16)
Max Uplift	2=-57(LC 12), 6=-57(LC 13)
Max Grav	2=391(LC 1), 6=391(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-315/185, 4-6=-315/185
BOT CHORD	2-8=-63/273, 6-8=-63/273

- 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 57 lb uplift at joint 2 and 57 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

Job

2630316

Truss

J01

Truss Type

JACK-OPEN

Qty

6

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEES SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-AMpt7ESou7GMz7xnCTqpV0G8YAimZv82vLxmT_zoVz5

02/17/2021

RELEASE FOR CONSTRUCTION

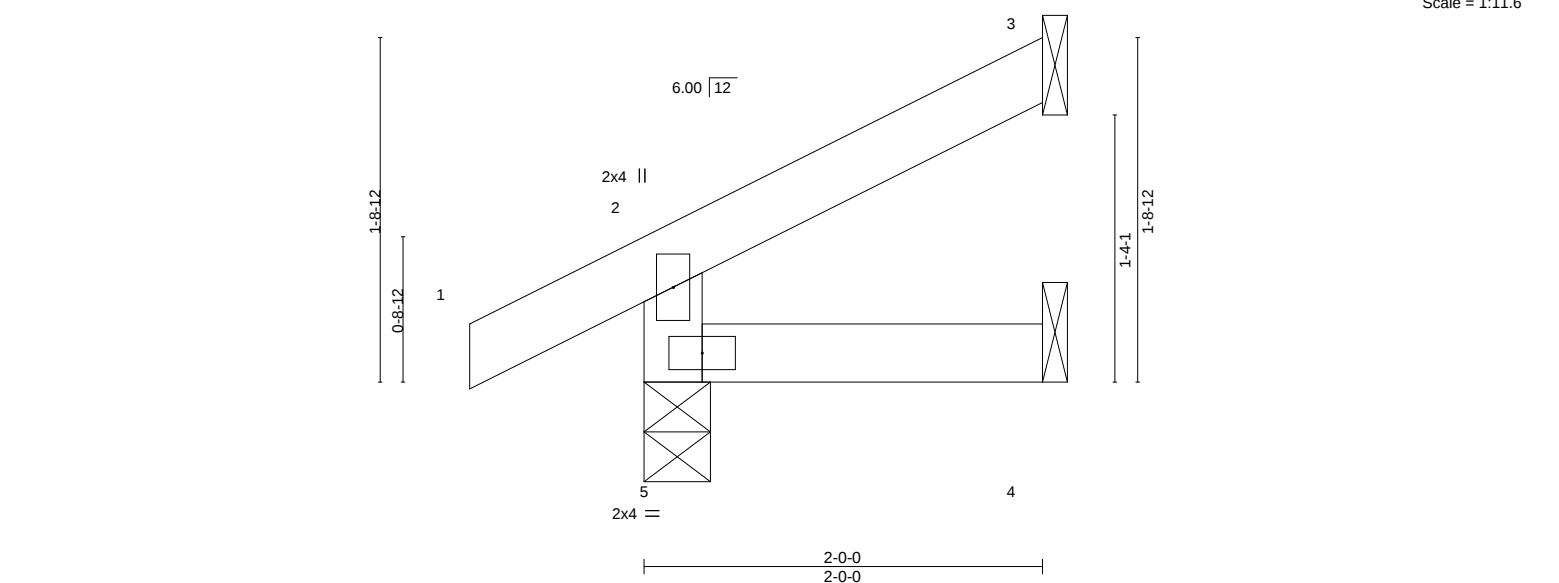
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEES SUMMIT, MISSOURI

02/17/2021

Scale = 1:11.6



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 0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	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: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 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	

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=44(LC 12)
Max Uplift 5=-21(LC 12), 3=-29(LC 12)
Max Grav 5=174(LC 1), 3=48(LC 1), 4=33(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 21 lb uplift at joint 5 and 29 lb uplift at joint 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5, 2021

Job

2630316

Truss

J01A

Truss Type

Jack-Open

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-AMpt7ESou7GMz7xnCTqpVOG8YAiz2v82vLxmT_zoVz5

02/17/2021

RELEASE FOR CONSTRUCTION

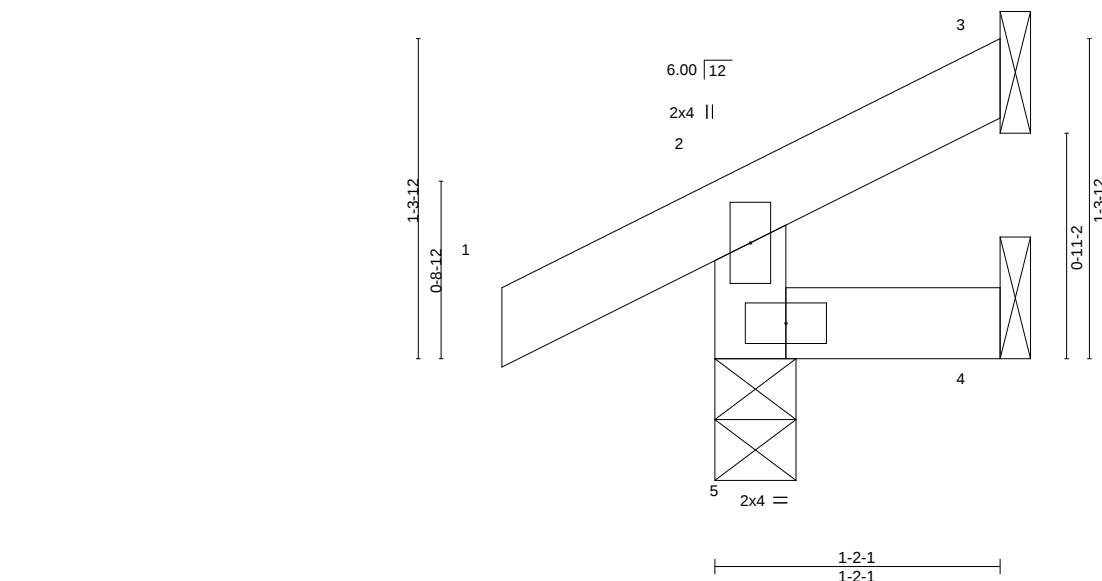
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

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 0.07	Vert(LL)	0.00	5	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	5	>999	180	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-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 9)
Max Grav 5=153(LC 1), 3=10(LC 19), 4=16(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5, 13 lb uplift at joint 3 and 2 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021

Job

2630316

Truss

J02

Truss Type

JACK-OPEN

Qty

7

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-eYNFLZTRfROCaHWzmAL2Scplka1WIMOB8?gJ0QzoVz4

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

02/17/2021

Scale = 1:11.2

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 0.17	Vert(LL)	-0.00 4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01 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: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-0 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=49(LC 8)

Max Uplift 5=-88(LC 8), 3=-34(LC 12)

Max Grav 5=276(LC 1), 3=78(LC 1), 4=53(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 3-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Refer to girder(s) for truss to truss connections.

4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 34 lb uplift at joint 3.

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

STATE OF MISSOURI

SCOTT M. SEVIER

NUMBER

PE-2001018807

PROFESSIONAL ENGINEER

February 5,2021

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

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

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

2630316

Truss

J02A

Truss Type

Jack-Open

Qty

2

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

2630316/woodside ridge 40/mo

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-awU?mFVhA2ewqagMtbOWX1uckOjDmGuUcJ9Q4JzoVz2

02/17/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

1-5-8

1-5-8

4-2-1

4-2-1

1-11-12

0-8-12

1-7-11

1-11-12

3.60

12

3x4

3

10

4

5

4-2-1

4-1-10

Scale = 1:12.7

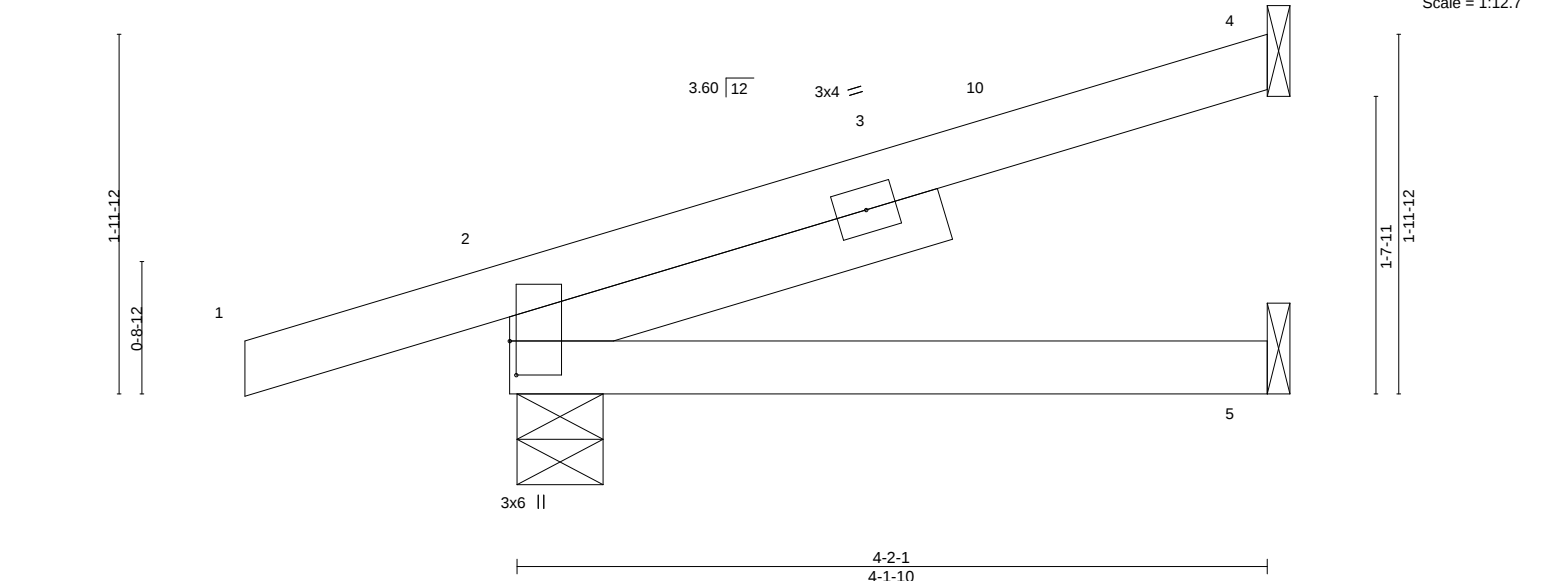


Plate Offsets (X, Y)--		[2:0-2-4,0-0-7]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	5-8	>999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	5-8	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS						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 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=120(LC 1), 2=305(LC 1), 5=68(LC 3)

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

- NOTES-**
 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 4-1-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) Refer to girder(s) for truss to truss connections.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 84 lb uplift at joint 2.
 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

Job

2630316

Truss

J03

Truss Type

HALF HIP GIRDER

Qty

7

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LE'S SUMMER MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-272NzbVJxMmnRkEYRjvI4ERoyn0gVjseqvzdz0Vz1

02/17/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LE'S SUMMER MISSOURI

02/17/2021

Scale = 1:11.4

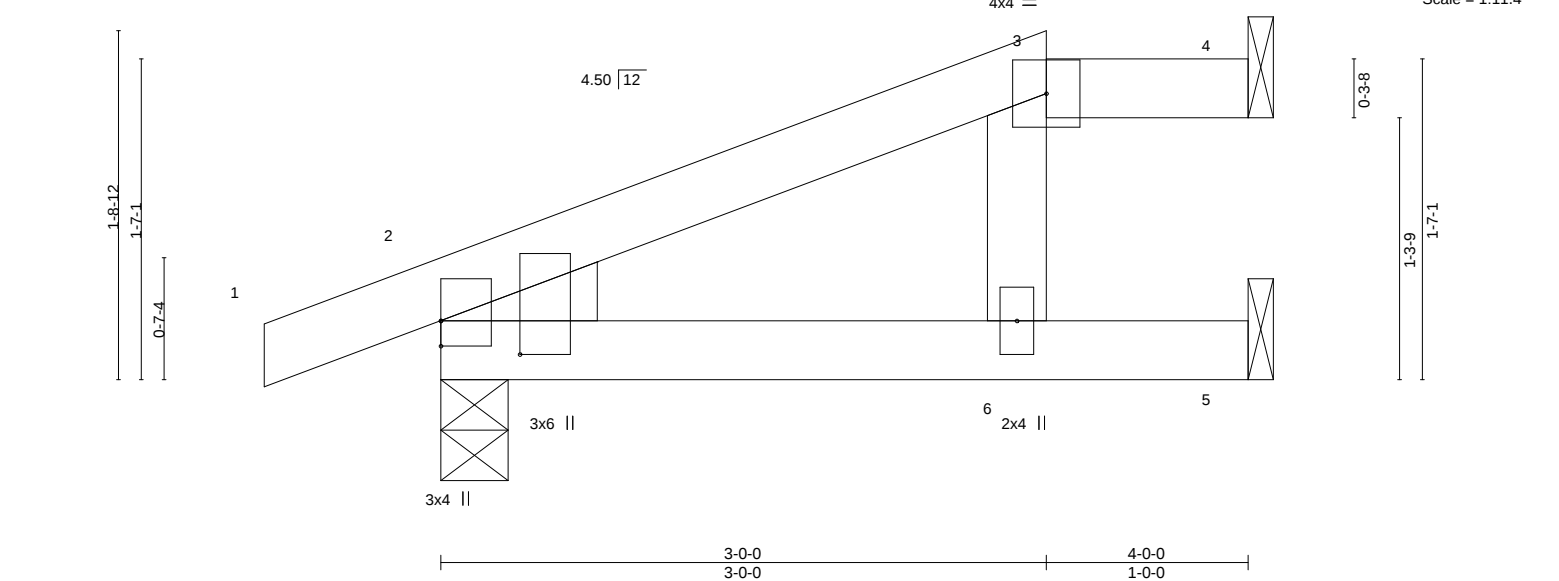


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(LL) -0.02 6-9 >999 240
BCLL 0.0	Rep Stress Incr NO	WB 0.02	Vert(CT) -0.04 6-9 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.02 4 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 13 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
BOT CHORD	2x4 SPF No.2	BOT CHORD	2-0-0 oc purlins: 3-4.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied or 6-0-0 oc bracing.
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=49(LC 4)
Max Uplift 4=35(LC 13), 2=55(LC 4), 5=29(LC 8)
Max Grav 4=71(LC 22), 2=245(LC 1), 5=136(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; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4, 55 lb uplift at joint 2 and 29 lb uplift at joint 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down and 39 lb up at 3-11-4, and 15 lb down and 32 lb up at 3-0-0 on top chord, and 28 lb down and 2 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 4=-20(F) 6=2(F)



February 5, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo	RELEASE FOR CONSTRUCTION
2630316	J03A	Half Hip	2	1	8.240 s Mar 9 2020 MiTek Industries, Inc	AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)	DEVELOPMENT SERVICES
ID:wH4RYhEsTNeUP2dXvOf1syQY8e_VA8OHXZTz1Vh2OxYjxD9fW8PbjNzddwlHO4hezoVz?					2630316/woodside ridge 40/mo	LEASUMBER MISSOURI
-0-10-8 0-10-8					3-9-11 3-9-11	02/17/2021
					4-0-0 0-2-5	
					NAILED	
					2x4	Scale = 1:13.0

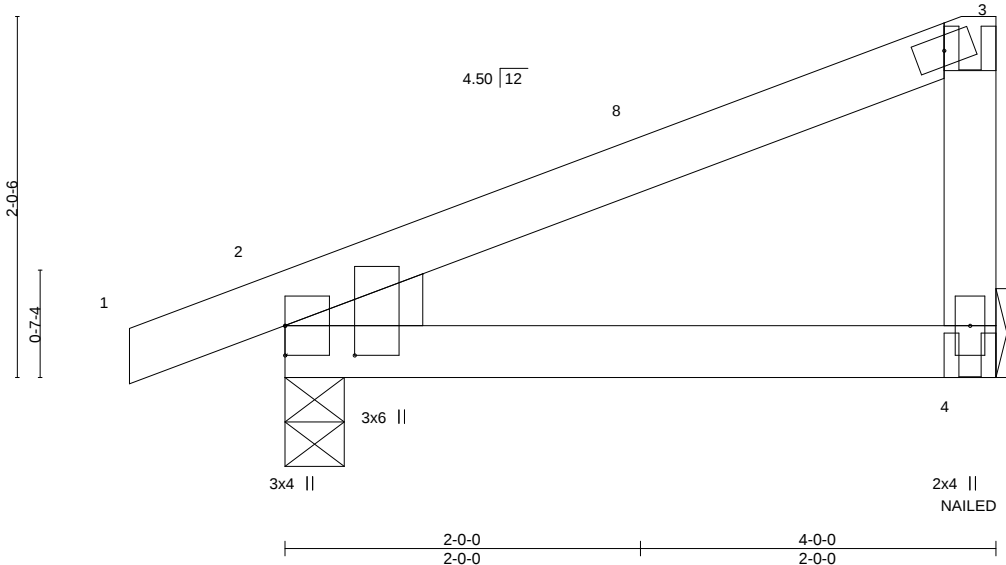


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	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=256(LC 1), 2=242(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 4 and 55 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 3=-60(F) 4=-29(F)



February 5, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

J04

Truss Type

JACK-OPEN

Qty

17

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMIT MISSOURI

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-_VA8OHXZTz1Vh2OxYjxD9fW8GbjHzddwlHO4hezoVz?

02/17/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Scale = 1:13.3

0-10-8

0-10-8

4-0-0

4-0-0

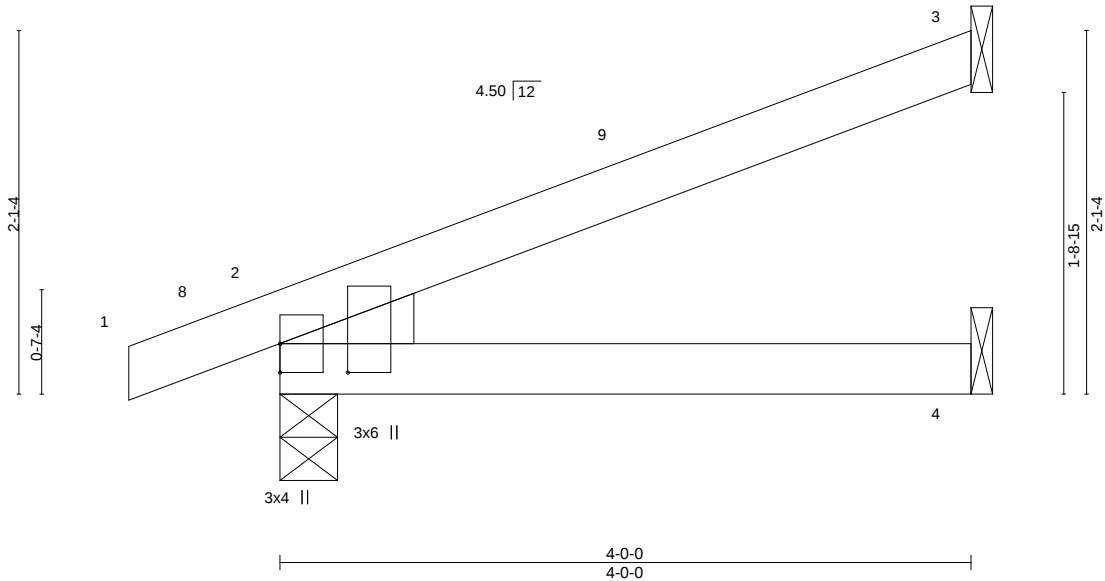


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.02 4-7 >999 240
			Vert(CT) -0.03 4-7 >999 180
			Horz(CT) 0.01 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 12 lb FT = 20%

LUMBER-		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.
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS.		(size)	3=Mechanical, 2=0-4-0, 4=Mechanical
		Max Horz	2=66(LC 8)
		Max Uplift	3=-46(LC 12), 2=-47(LC 8)
		Max Grav	3=116(LC 1), 2=245(LC 1), 4=70(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 46 lb uplift at joint 3 and 47 lb uplift at joint 2.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside	ridge 40/mo
2630316	J05	Jack-Open	2	1		
					Job Reference (optional)	

CONSTRUCTION

AS NOTED ON PLANS REVIEW

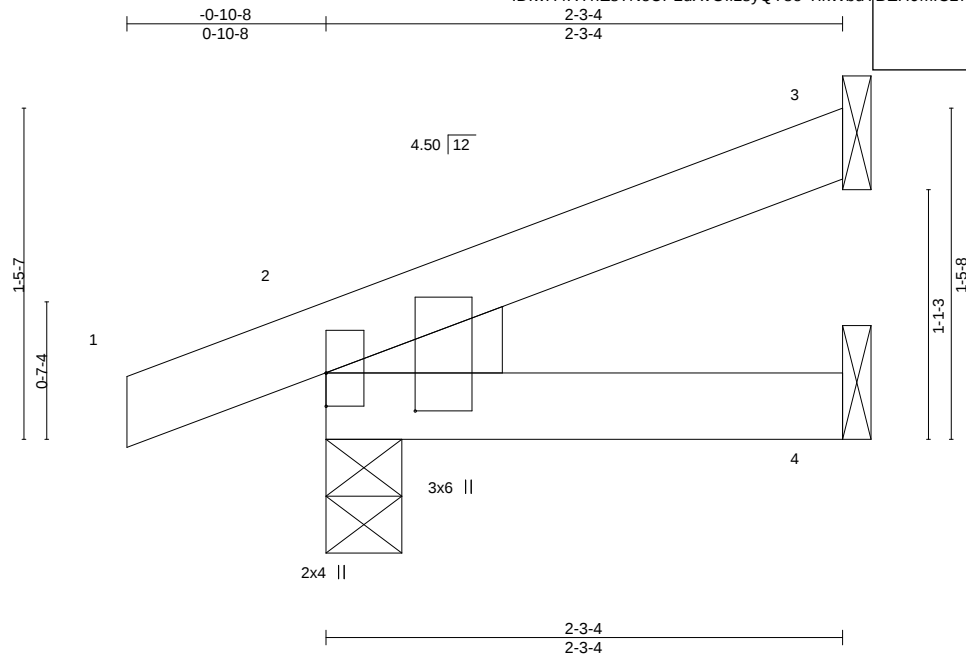
DEVELOPMENT SERVICES

144677394

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

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-TikWbdYBEH9MlCz76RSSht3L4?5Ji4t4Wx7dD4zoVz_

02/17/2021



LUMBER-

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
 Max Horz 2=44(LC 8)
 Max Uplift 3=-23(LC 12), 2=-42(LC 8), 4=-2(LC 12)
 Max Grav 3=57(LC 1), 2=173(LC 1), 4=37(LC 3)



Job

2630316

Truss

J06

Truss Type

Jack-Open

Qty

2

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

2630316

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-xulupzZq?bHDwMYJg8zhE4bUzPRVRX7DlbtBIWzoVyz

02/17/2021

RELEASE FOR CONSTRUCTION

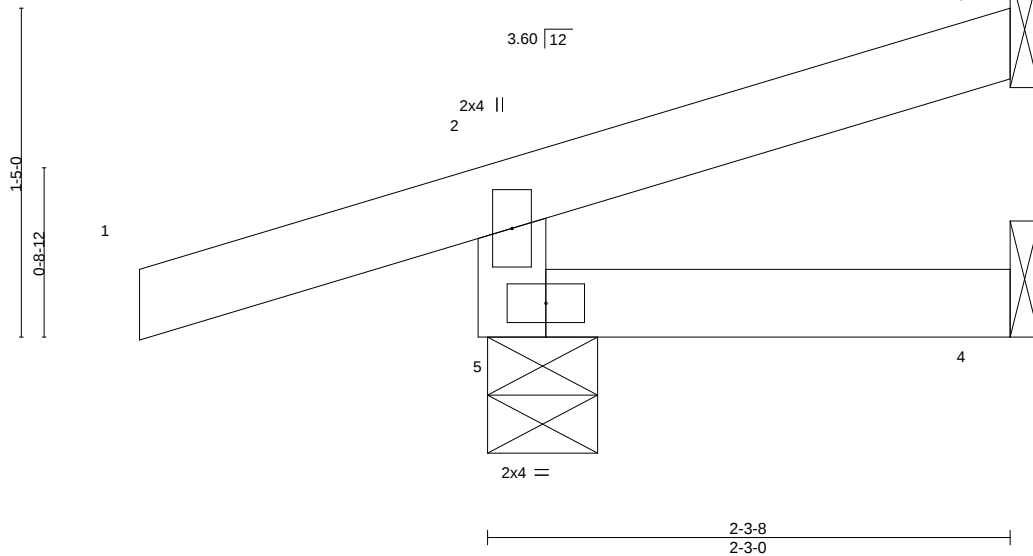
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

Scale = 1:9.9



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 0.17	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	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=249(LC 1), 3=41(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 21 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



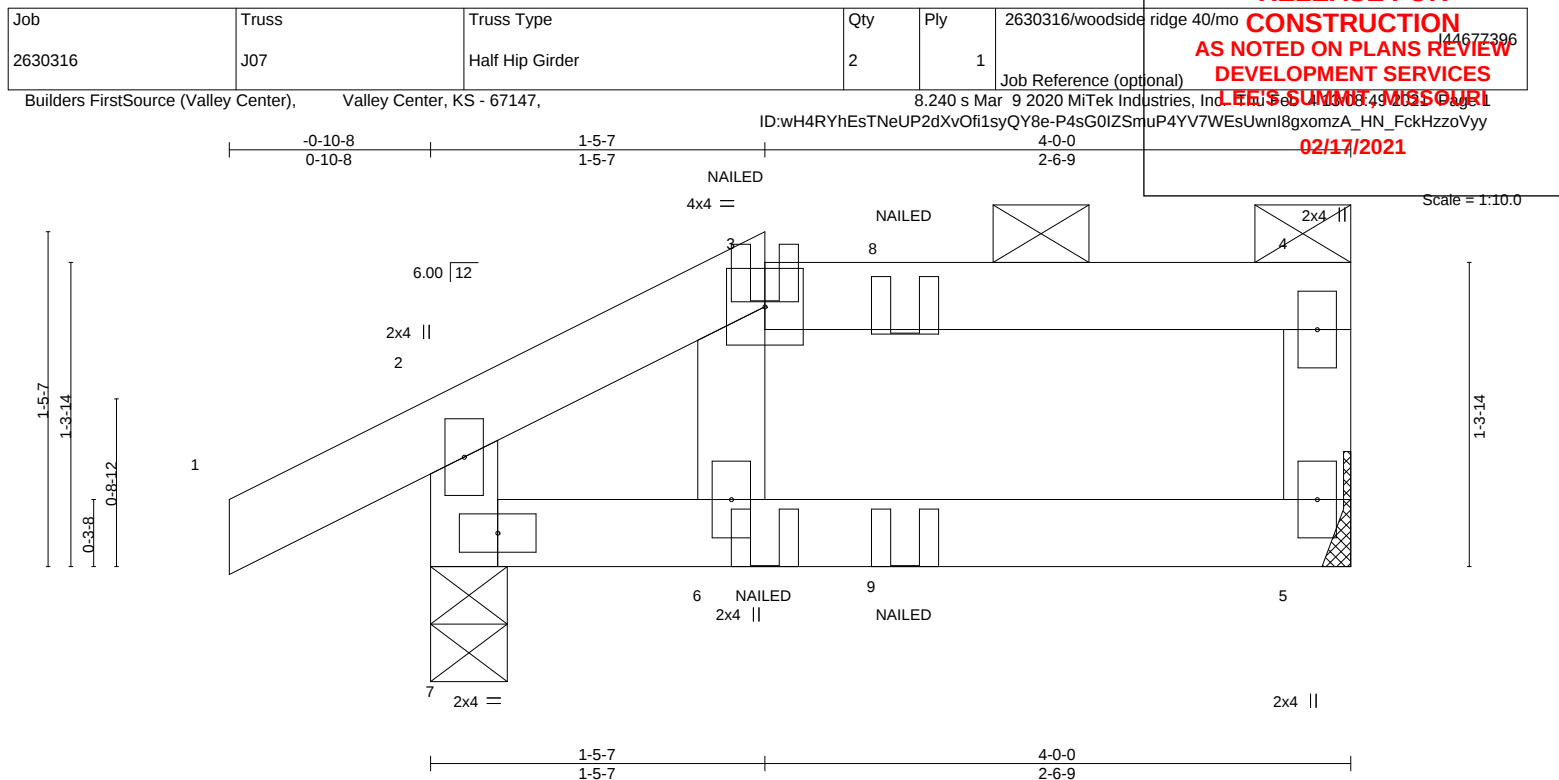
February 5, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017



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 6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	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=161(LC 1), 7=250(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; 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5 and 48 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20
 Concentrated Loads (lb)
 Vert: 6=5(F) 8=-0(F) 9=-10(F)



February 5, 2021

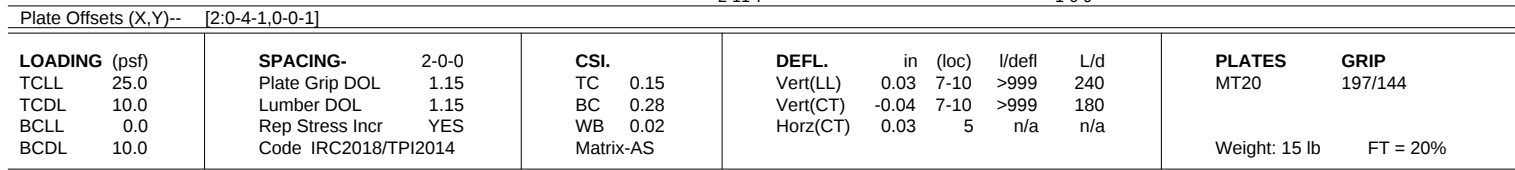
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



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=34(LC 1), 2=245(LC 1), 6=136(LC 1)

NOTES-

-

 **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

2630316

Truss

J09

Truss Type

Jack-Open

Qty

6

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

Lee's Summit, MO

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-pfXPeKck3pnfPzs4v_2dOwmAe0n0NK6pgCrOuHzoVyy

02/17/2021

RELEASE FOR CONSTRUCTION

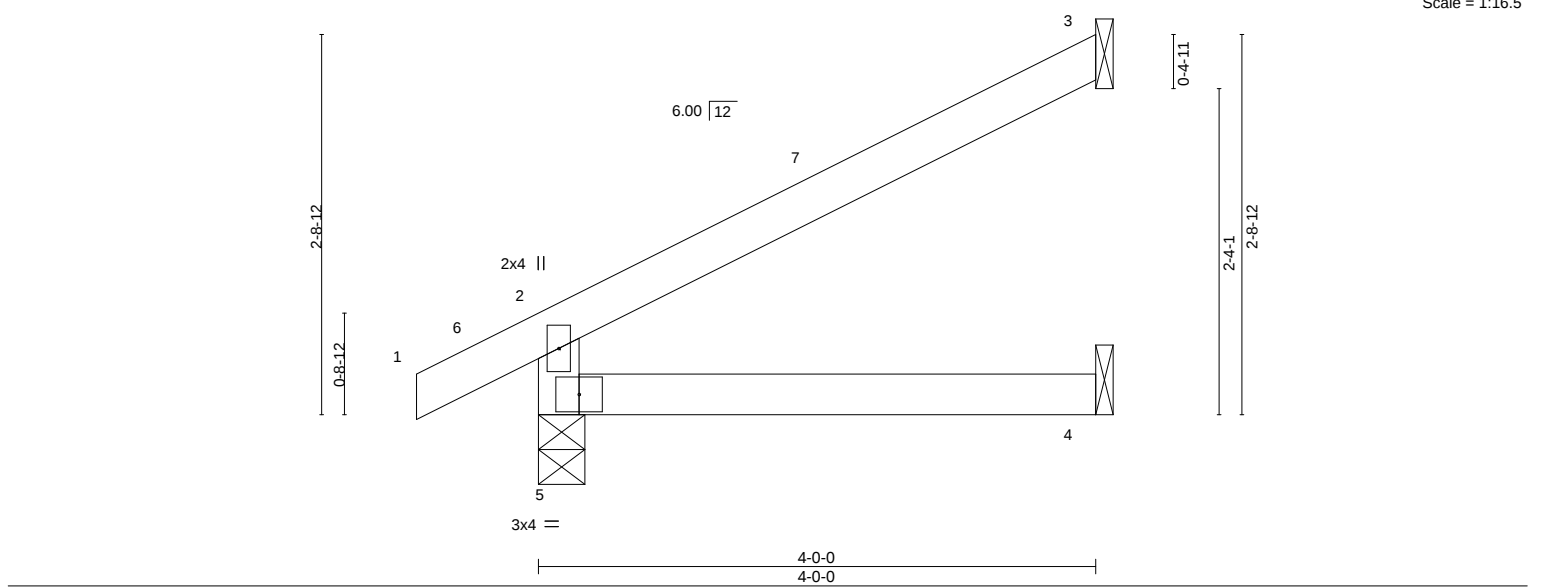
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

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 0.19	Vert(LL)	-0.01	4-5	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	180	197/144
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=252(LC 1), 3=117(LC 1), 4=71(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 59 lb uplift at joint 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

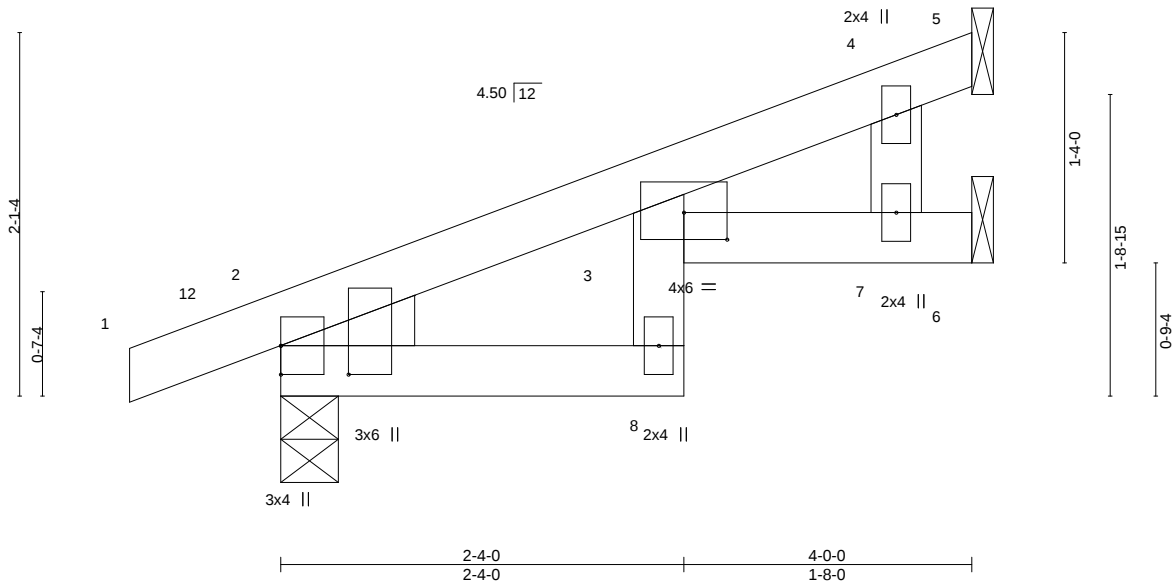


Plate Offsets (X,Y)-- [2:0-2,0,0-4-11], [3:0-3,0,0-1-14]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.03	8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.05	8	>971	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.03	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.

REACTIONS. (size) 5=Mechanical, 2=0-4-0, 6=Mechanical
 Max Horz 2=66(LC 8)
 Max Uplift 5=-4(LC 1), 2=-47(LC 8), 6=-51(LC 12)
 Max Grav 5=7(LC 12), 2=246(LC 1), 6=176(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 to 3-11-4 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 4 lb uplift at joint 5, 47 lb uplift at joint 2 and 51 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021



WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MIF-743 (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 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

J11

Truss Type

JACK-OPEN

Qty

5

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LE'S SUMMER MISSOURI

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-l2f930daR1MeH?T0P45ULrWFpS8rEc67WKVvYz0Vyt

144672400

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

0-10-8

4-0-0

4-0-0

02/17/2021

Scale = 1:13.3

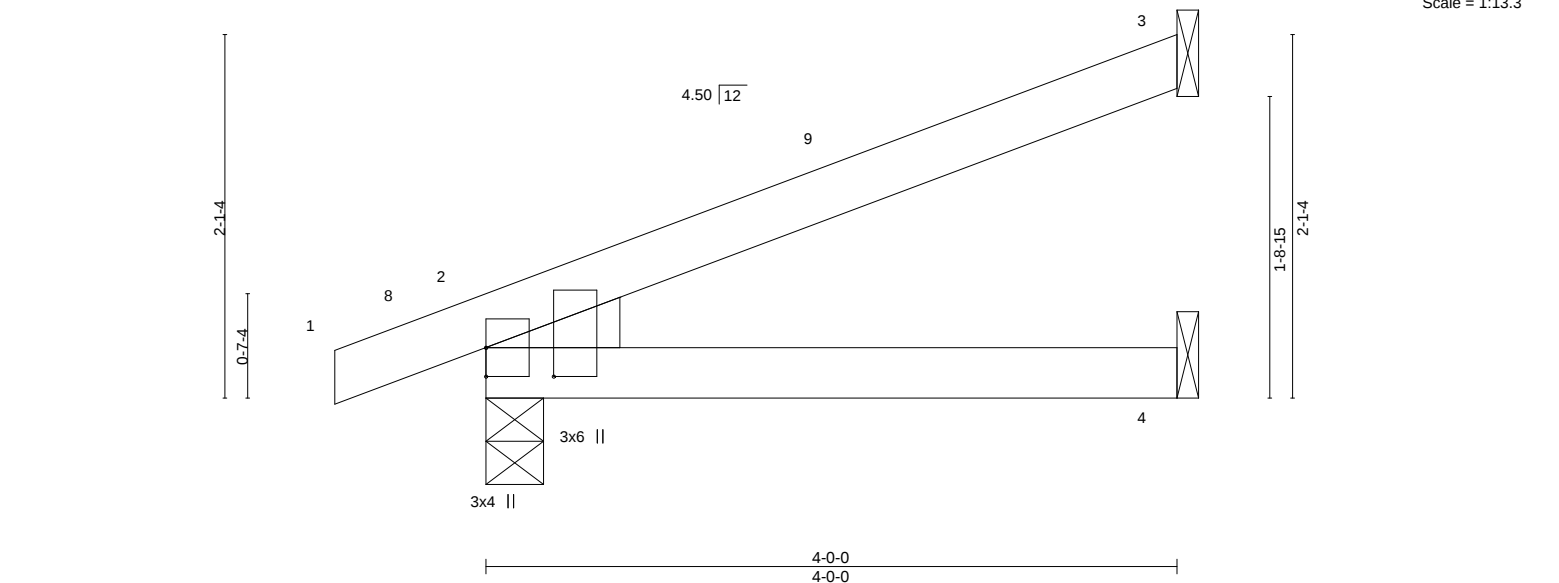


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.02 4-7 >999 240
			Vert(CT) -0.03 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=116(LC 1), 2=245(LC 1), 4=70(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 46 lb uplift at joint 3 and 47 lb uplift at joint 2.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 5, 2021

Job	Truss	Truss Type	Qty	Ply	2630316/woodside ridge 40/mo
2630316	J12	JACK-OPEN	1	1	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.240 s Mar 9 2020 MiTek Industries, Inc. J44672401
ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-EEDYHMeDMk9DQafa6bK0Z0j6DqAahsFMA42UczoVys					Job Reference (optional)

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/17/2021

Scale = 1:11.6

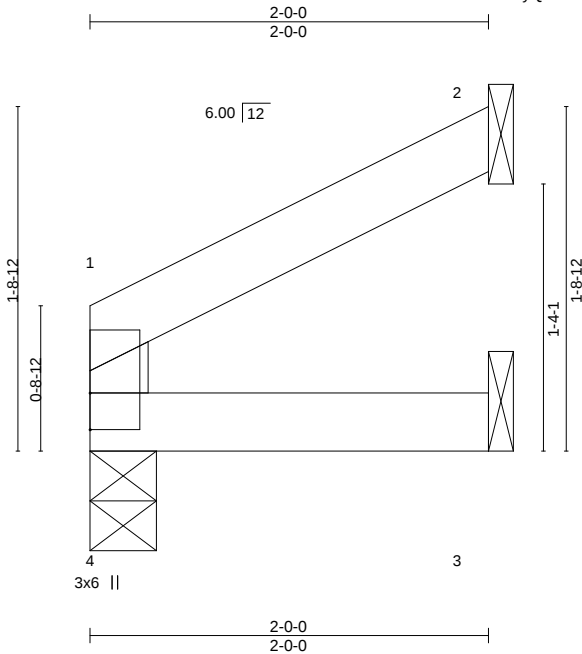


Plate Offsets (X,Y)--	[1:0-0-14,0-1-12], [4:0-0-0,0-1-12]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00 4 >999 240
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00 3-4 >999 180
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2 n/a n/a
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MR		
					PLATES GRIP
					MT20 197/144
					Weight: 5 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 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	

REACTIONS. (size) 4=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz 4=30(LC 9)
Max Uplift 2=-31(LC 12)
Max Grav 4=83(LC 1), 2=60(LC 1), 3=35(LC 3)

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

NOTES-

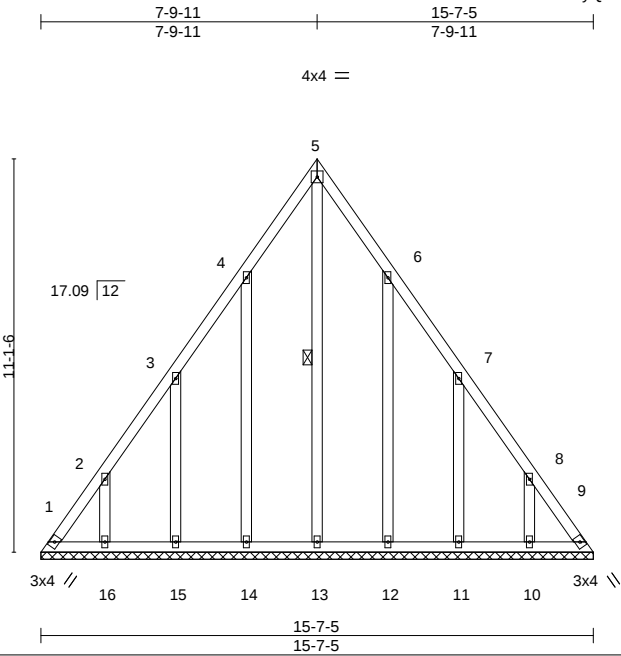
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5, 2021

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

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 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	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=-183(LC 10), 9=-149(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, 14, 15, 16, 12, 11, 10 except 1=349(LC 12), 9=328(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-438/293, 2-3=-272/202, 8-9=-413/293
BOT CHORD 1-16=-186/266, 15-16=-186/266, 14-15=-186/266, 13-14=-186/266, 12-13=-186/266, 11-12=-186/266, 10-11=-186/266, 9-10=-186/266

- 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 183 lb uplift at joint 1, 149 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 5,2021

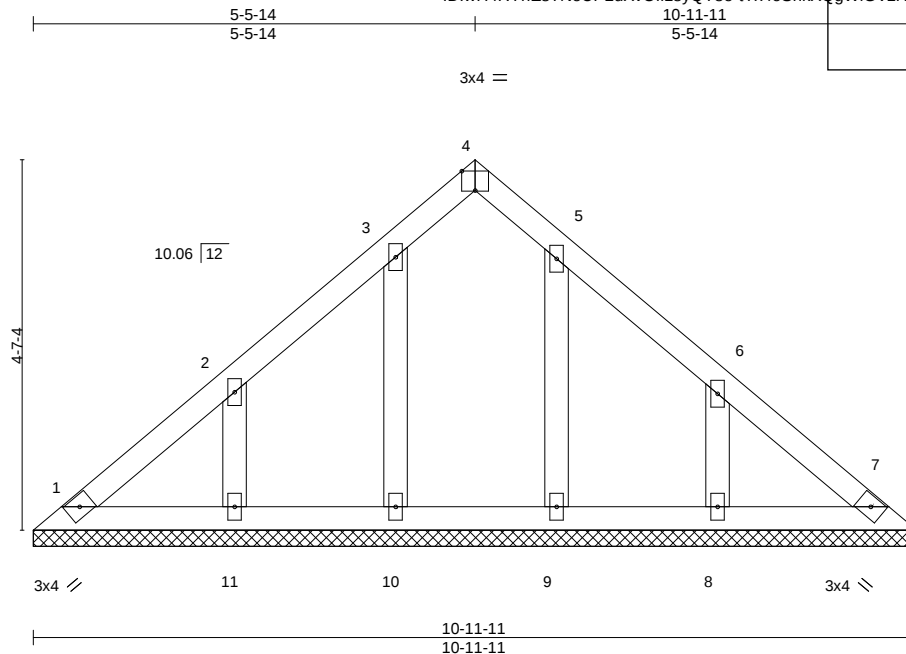


Plate Offsets (X,Y)--		[4:0-2:0,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
										Weight: 39 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 10-11-11.
(lb) - Max Horz 1=100(LC 11)
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, 8, 9, 10, 11

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 5, 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

8.240 s Mar 9 2020 MITek Industries, Inc. Tru Sec 4 13 18 58 2021 Page 1

LEE'S SUMMIT, MISSOURI

~~Scale = 1:67.7~~



Weight: 65 lb FT = 20%

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 02/17/2021
2630316	LG04	GABLE	1	1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020 MiTek Industries, Inc.		
		6-3-3		12-6-6		
		6-3-3		6-3-3		
		3x4 =				Scale = 1:32.3

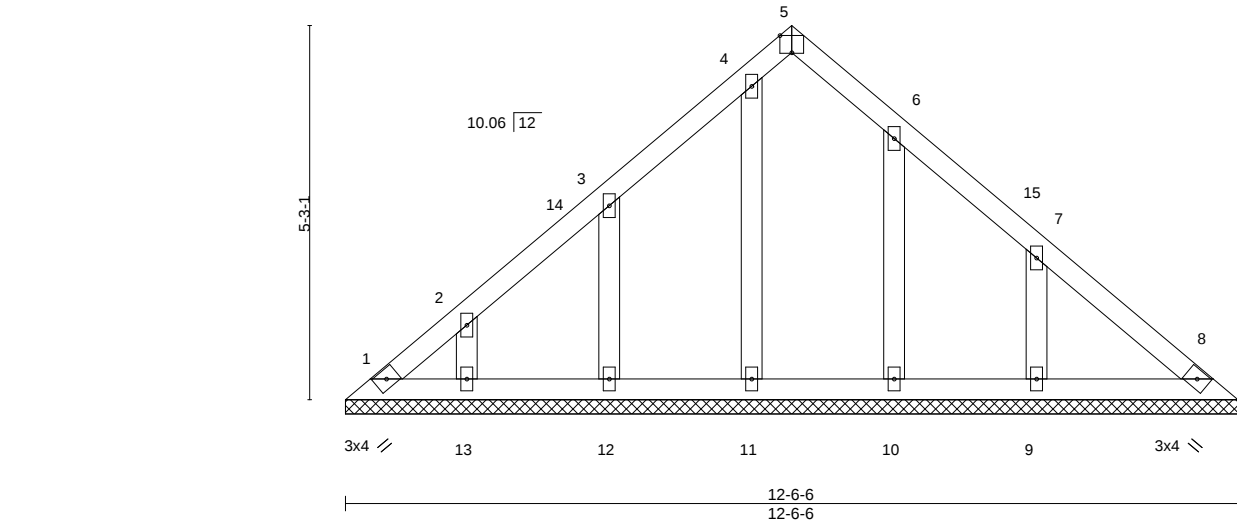


Plate Offsets (X,Y)--		[5:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 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, 9

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) 0-4-13 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
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 12, 11, 10 except (jt=lb) 9=116.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5, 2021

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

MiTek®
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

2630316

Truss

LG05

Truss Type

GABLE

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:3seZTgShN_qvheIQBpz4myNXMX-aCORK3iLAHnWMCTdNgBVjc5ZhEXZfYf_WSNpAqzoVyn

02/17/2021

Scale = 1:26.5

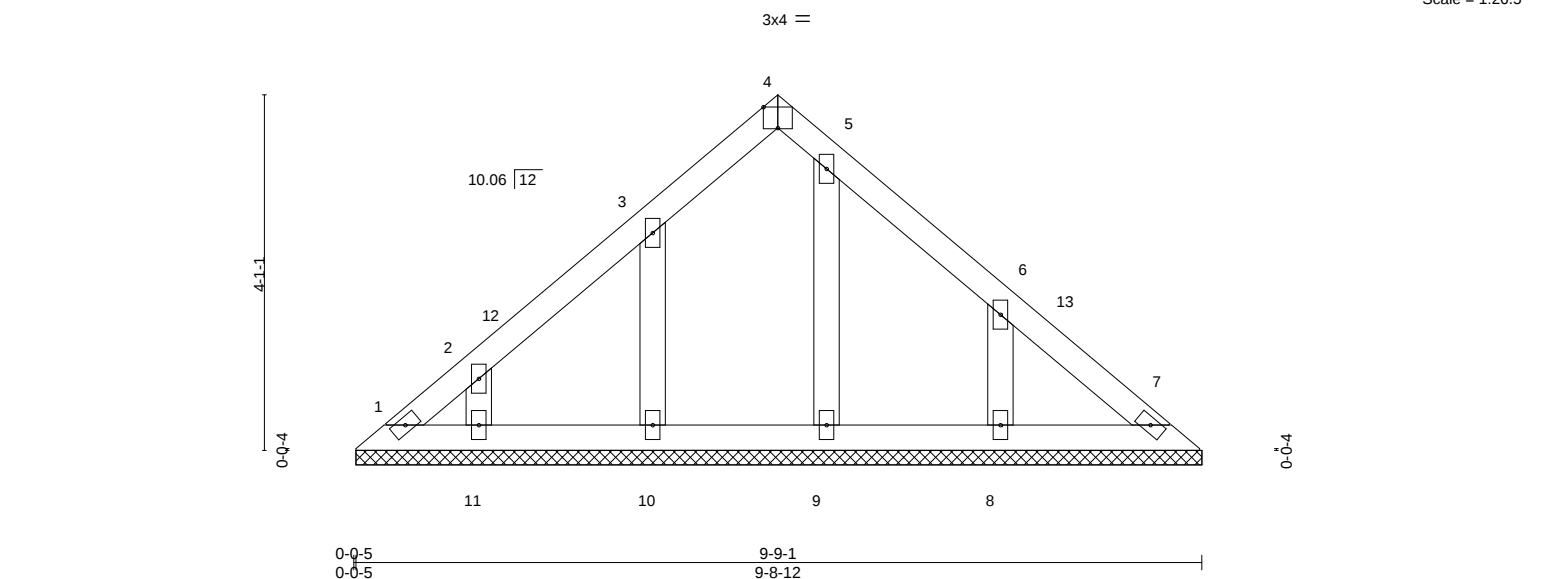


Plate Offsets (X,Y)--		[4:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 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	

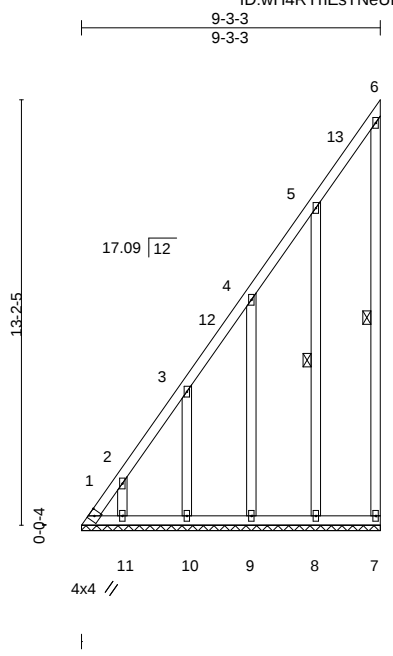
REACTIONS. All bearings 9-8-12.
 (lb) - Max Horz 1--88(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 10, 9 except 8--104(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9, 8

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) 0-4-13 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 10, 9 except (jt=lb) 8=104.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5,2021



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 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	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=-261(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, 8, 9, 10, 11 except 1=621(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-809/693, 2-3=-647/568, 3-4=-435/402, 4-5=-258/244

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 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=261, 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 5,2021

Job

2630316

Truss

LG07

Truss Type

GABLE

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:3seZTgShN_qvhelqPBpz4myNXMX-Wa8Blijciu2EcVd?U5Dzo1AuX2DfjrQHzmGwEizoVyl

02/17/2021

4-9-3

4-9-3

9-6-5

4-9-2

4x4 =

Scale = 1:44.7

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

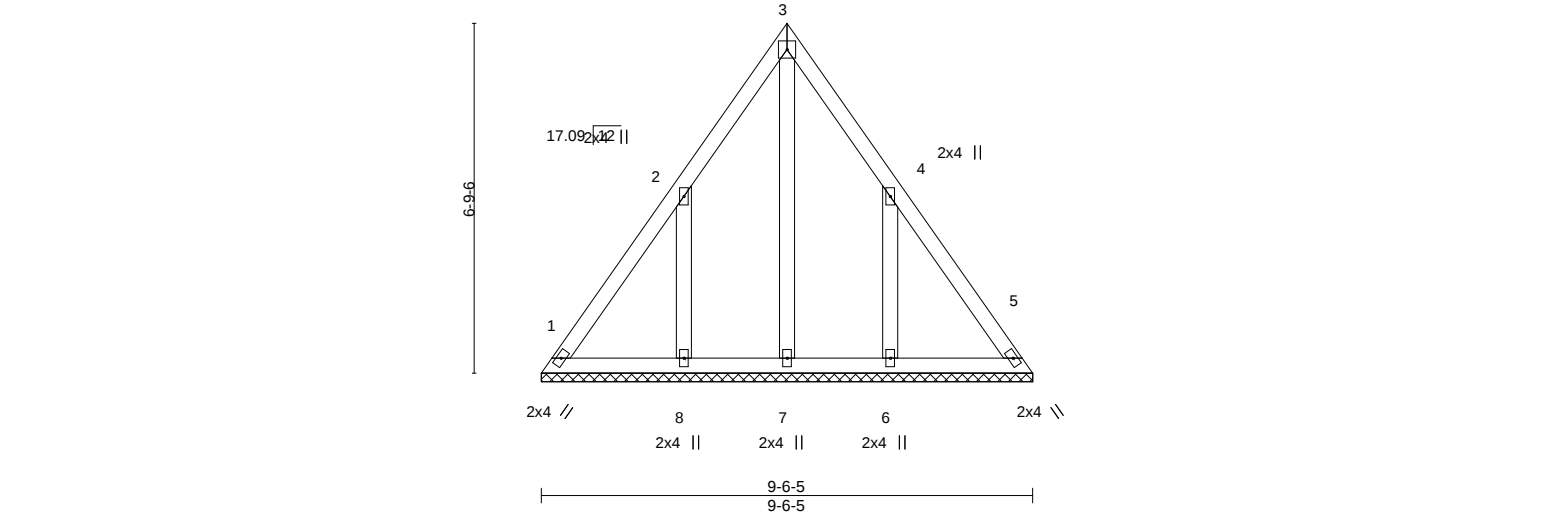


Plate Offsets (X,Y)--		[4:0-0-1,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10
TCDL 10.0	Lumber DOL	1.15	BC 0.05
BCLL 0.0	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 5 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 43 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	

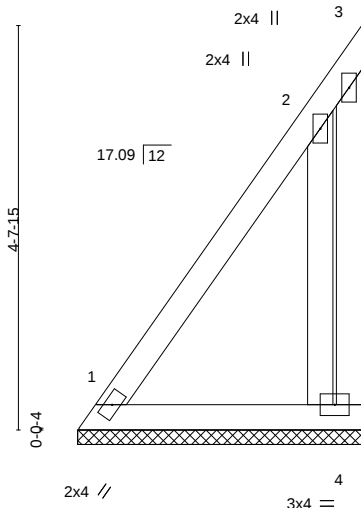
REACTIONS. All bearings 9-6-5.
 (lb) - Max Horz 1=-165(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-247(LC 12), 6=-246(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=312(LC 19), 6=311(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-300/254, 4-6=-300/253

- 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 4-9-3, Exterior(2R) 4-9-3 to 7-9-3, Interior(1) 7-9-3 to 9-2-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=247, 6=246.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 5, 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 0.17	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

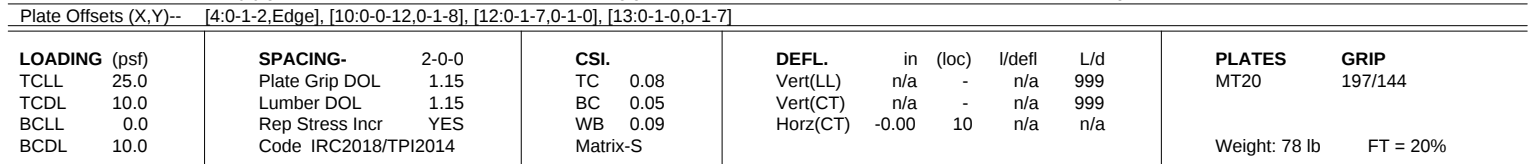
REACTIONS. (size) 1=3-3-5, 4=3-3-5
Max Horz 1=144(LC 9)
Max Uplift 1=-35(LC 8), 4=-102(LC 9)
Max Grav 1=176(LC 20), 4=181(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-252/260, 3-4=-264/252
WEBS 2-4=-356/340

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



February 5,2021



February 5, 2021

Job

2630316

Truss

V1

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Job Reference (optional)

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-e4Q6T8tletgOfV6VIJy0qnD4wHd7GkBCylw6CSzoVyy

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

Scale = 1:16.2

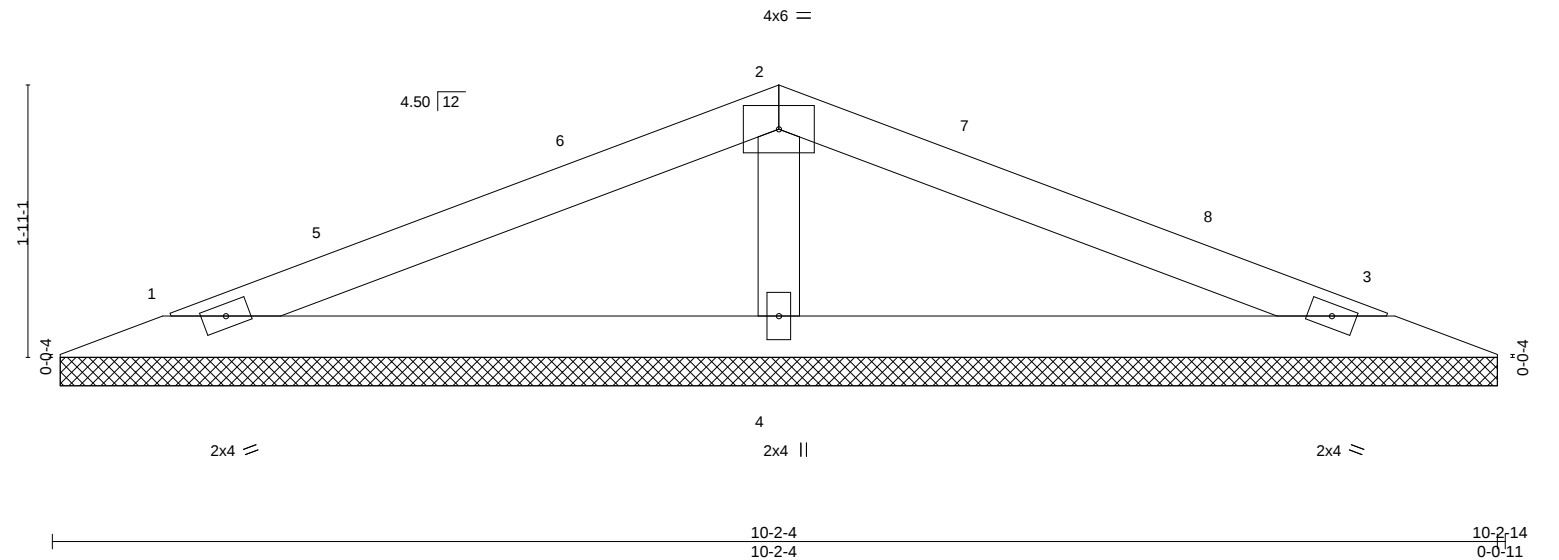
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-1-7

5-1-7

10-2-14

5-1-7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	MT20		197/144	
BCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	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 16)
Max Uplift	1=33(LC 12), 3=38(LC 13), 4=37(LC 8)
Max Grav	1=173(LC 25), 3=173(LC 26), 4=436(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
WEBS	2-4=-307/171

- 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 5, 2021

Job: 2630316

Truss: V2

Truss Type: Valley

Qty: 1

Ply: 1

2630316/woodside ridge 40/mo

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

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

8.240 s Mar 9 2020 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-6H_UH XuOPBoFHhiJ1UFN_lIih_0?B3LBxfgkuzoVyX

2-5-7 2-5-7 3x4 = 4-10-14 2-5-7

Scale = 1:9.1

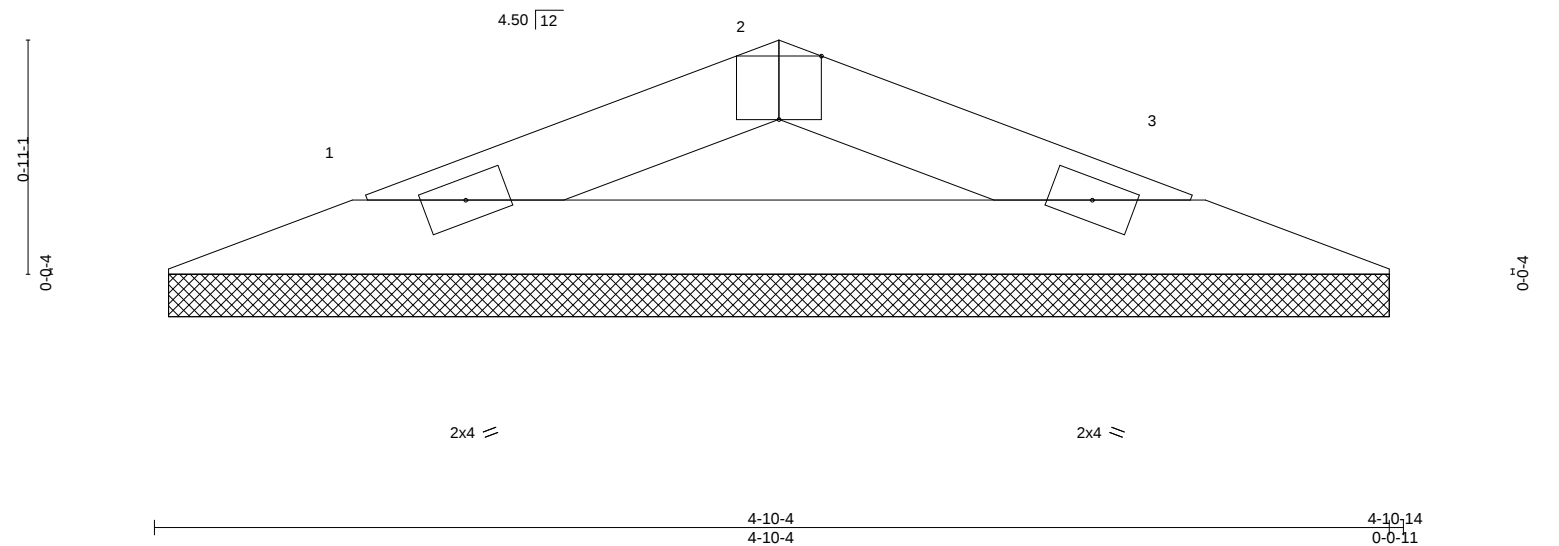


Plate Offsets (X,Y)--		[2:0-2-0,Edge]		4-10-4		4-10-14	
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P			
						PLATES	GRIP
						MT20	197/144
						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.

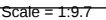
REACTIONS.	
(size)	1=4-9-9, 3=4-9-9
Max Horz	1=10(LC 12)
Max Uplift	1=-19(LC 12), 3=-19(LC 13)
Max Grav	1=145(LC 1), 3=145(LC 1)

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.



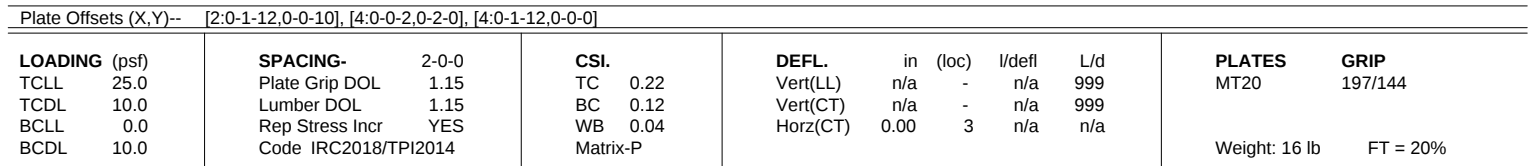
February 5,2021



Weight: 9 lb FT = 20%

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

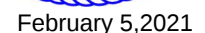




REACTIONS. (size) 5=6-4-11, 3=6-4-11, 4=6-4-11
 Max Horz 5=-82(LC 8)
 Max Uplift 5=-30(LC 13), 3=-64(LC 1), 4=-96(LC 13)
 Max Grav 5=150(LC 1), 3=38(LC 13), 4=400(LC 1)

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-3-8, Interior(1) 4-3-8 to 5-6-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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.



Job

2630316

Truss

V05

Truss Type

VALLEY

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc

Job Reference (optional)

LEES SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-mJBbeqqFafAyBupkWtu4gx2P2gXKw7c2gyv3hzoVyc

9-0-11

9-0-11

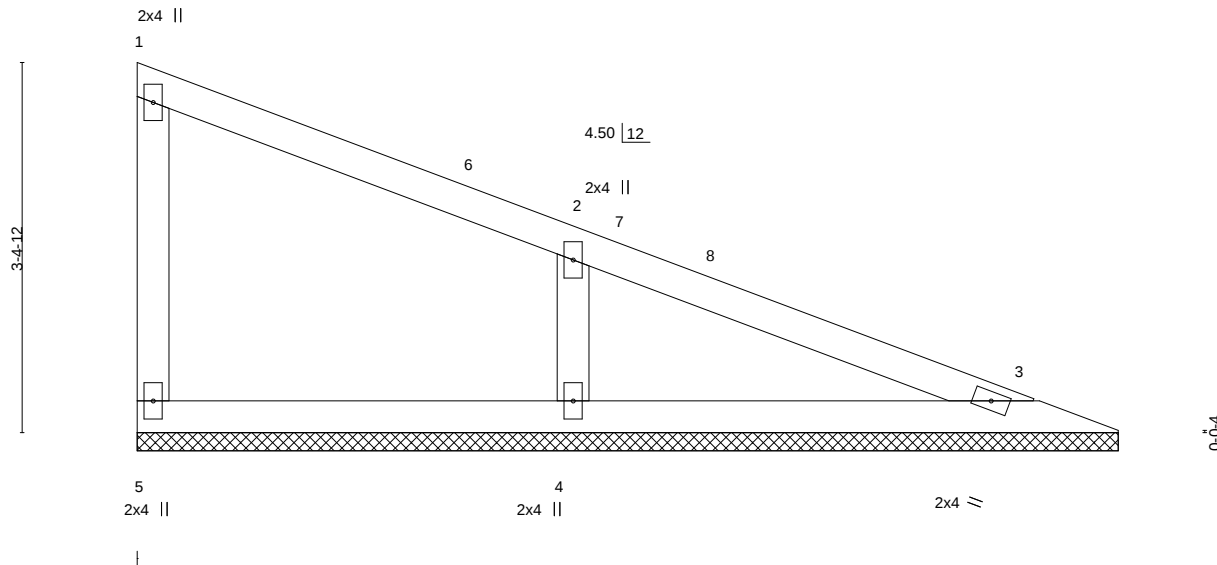
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:21.1



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	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=132(LC 1), 3=152(LC 1), 4=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-338/201

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 5, 2021

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2630316

Truss

V06

Truss Type

VALLEY

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

ID:WH4RYhEsTNeUP2dXvOf1syQY8e-EWlZrArtLyIp02Nw4BPJC8bcl4b43N3lGKhSb7zoVyb

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/17/2021

144672417

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

2-7-15

2-7-15

5-3-14

2-7-15

3x4

2x4

Scale = 1:11.1

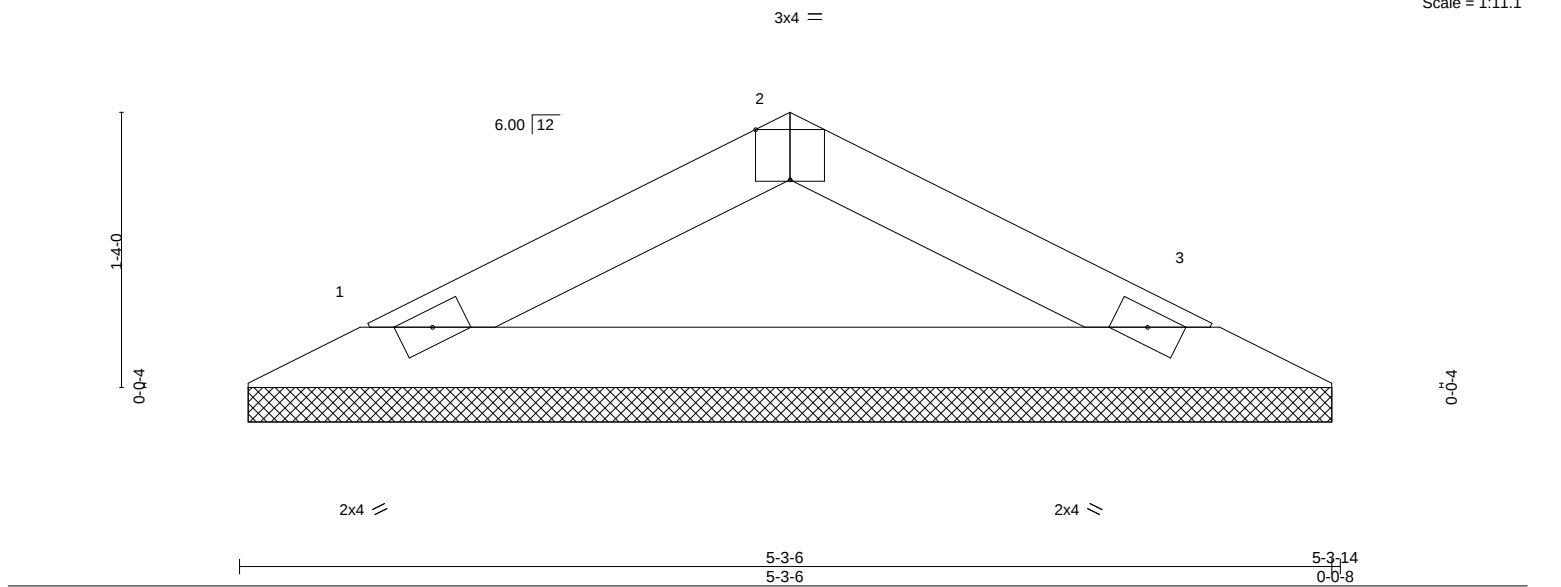


Plate Offsets (X,Y)--		[2:0-2:0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	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=183(LC 1), 3=183(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 5,2021

Job

2630316

Truss

V07

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LE'S SUMMER BRIDGE

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-iiLL2WsV6GQgQBy7euwYIM8InUyPoqrVv_R?7azoVya

02/17/2021

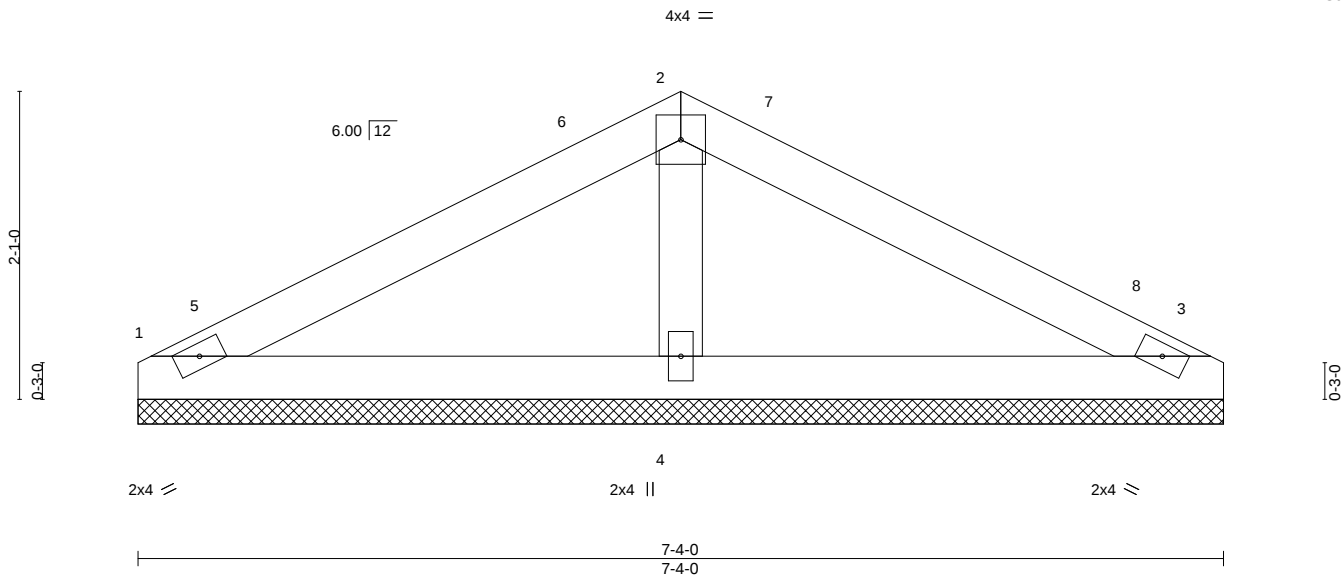
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:15.6



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 0.23	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.

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

REACTIONS. (size) 1=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=161(LC 1), 3=161(LC 1), 4=311(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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



February 5, 2021

Job

2630316

Truss

V08

Truss Type

Valley

Qty

1

Ply

1

2630316/woodside ridge 40/mo

8.240 s Mar 9 2020 MiTek Industries, Inc.

Job Reference (optional)

LE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-AusjGst7taYX2LXJBcRnHZgwdtllXH52keAZf0zoVyZ

02/17/2021

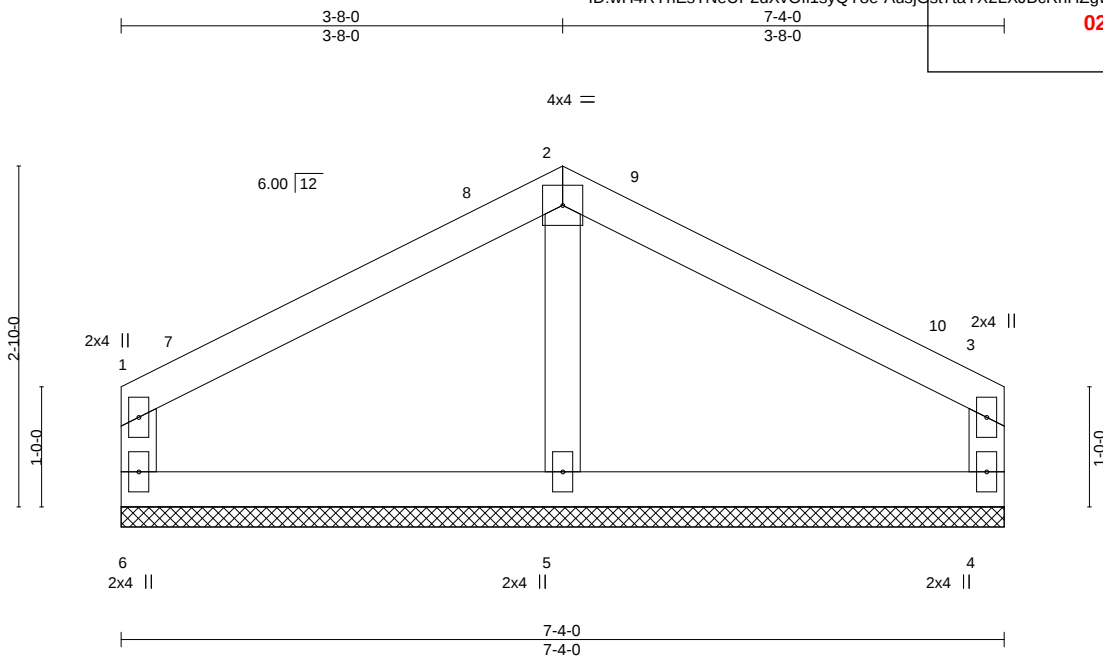
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

02/17/2021

Scale = 1:19.1



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	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 22 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	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 6=7-4-0, 4=7-4-0, 5=7-4-0
 Max Horz 6=-46(LC 10)
 Max Uplift 6=-43(LC 12), 4=-43(LC 13)
 Max Grav 6=182(LC 1), 4=182(LC 1), 5=270(LC 1)

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

- NOTES-**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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) 6, 4.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



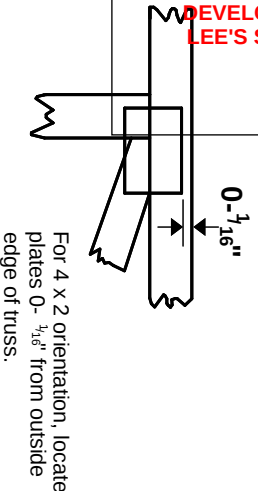
February 5,2021

Symbols

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/17/2021

PLATE LOCATION AND ORIENTATION

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



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

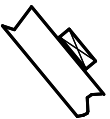
* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

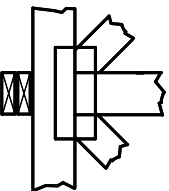
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



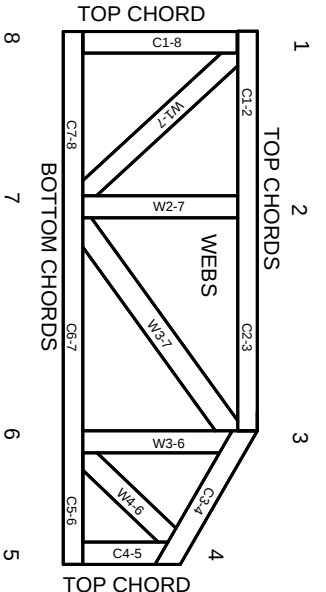
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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/TP1 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 T or 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.