



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

12/09/2020

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

Re: 2523912
Summit/11 Woodside

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

Pages or sheets covered by this seal: I43629206 thru I43629253

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

Missouri COA: Engineering 001193



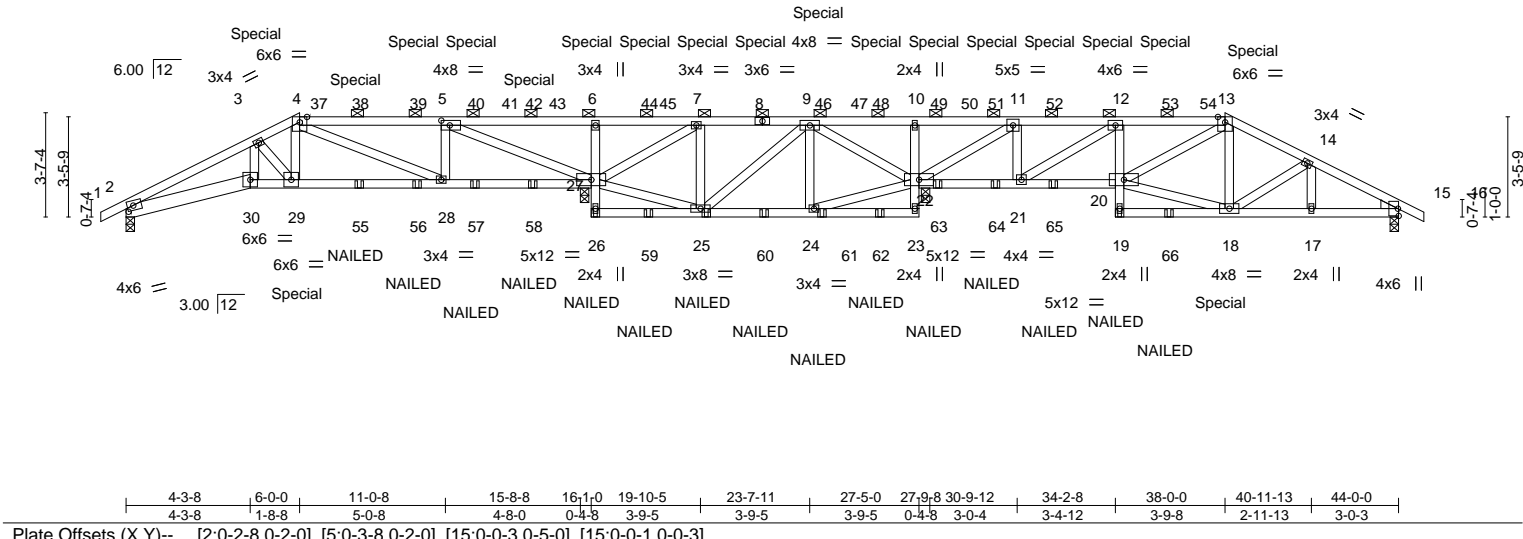
November 14, 2020

Johnson, Andrew ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629206
2523912	A1	HIP GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:38 2020 Page 1
ID:b0jcEz00th2MAe1aMpWBnxzu4Zl-hNcc_RvDrhHlKqx9X3li2UT7EPf7xYH88b_37yJBzI
-0-10-8 4-3-8 6-0-0 11-0-8 16-1-0 19-10-5 23-7-11 27-5-0 30-9-12 34-2-8 38-0-0 40-11-13 44-0-0 44-10-8
0-10-8 4-3-8 1-8-8 5-0-8 5-0-8 3-9-5 3-9-5 3-9-5 3-4-12 3-4-12 3-9-8 2-11-13 3-0-3 0-10-8
Scale = 1:79.7



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.62	Vert(LL) -0.07 29 >999 240		
TCDL 20.0	Rep Stress Incr NO	WB 0.61	Vert(CT) -0.14 28-29 >999 180		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.09 15 n/a n/a		
BCDL 10.0				Weight: 389 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except
BOT CHORD 2x4 SPF No.2 *Except* 2-30: 2x6 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 4-13.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEDGE	6-0-0 oc bracing: 25-26,24-25,23-24.
Right: 2x4 SPF No.2	

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=64(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 2=155(LC 10), 27=327(LC 10), 22=325(LC 10), 15=155(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except 2=1678(LC 29), 27=3977(LC 28), 22=3993(LC 28), 15=1777(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4129/345, 3-4=-3486/327, 4-5=-2148/231, 5-6=-164/2286, 6-7=-167/2332, 7-9=-36/627, 9-10=-155/2342, 10-11=-159/2349, 11-12=-1056/128, 12-13=-3012/296, 13-14=-2650/248, 14-15=-2715/227
BOT CHORD 2-30=-250/3623, 29-30=-241/3505, 28-29=-205/3112, 27-28=-137/2141, 6-27=-1030/157, 24-25=-614/113, 10-22=-871/126, 21-22=-55/1056, 20-21=-196/3041, 12-20=0/413, 17-18=-151/2328, 15-17=-151/2328
WEBS 3-30=-24/564, 3-29=-492/91, 4-29=-56/1160, 4-28=-1275/80, 5-28=0/593, 5-27=-4800/428, 25-27=-558/108, 7-27=-1999/173, 7-25=0/404, 9-24=0/391, 22-24=-541/97, 9-22=-2015/164, 11-22=-3995/337, 11-21=-64/1254, 12-21=-2329/194, 18-20=-141/2232, 13-20=-87/804, 14-18=-300/243

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.



November 14, 2020

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside
2523912	A1	HIP GIRDER	1	2	143629206
					Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:38 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4ZI-hNcc_RvDrhHlKqx9X3li2UT7EPf7xYHZ88b_37yJBzl

- NOTES-**
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2, 327 lb uplift at joint 27, 325 lb uplift at joint 22 and 155 lb uplift at joint 15.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 321 lb down and 96 lb up at 6-0-0, 321 lb down and 92 lb up at 8-0-12, 321 lb down and 92 lb up at 10-0-12, 321 lb down and 92 lb up at 12-0-12, 321 lb down and 92 lb up at 14-0-12, 240 lb down and 89 lb up at 16-0-12, 240 lb down and 89 lb up at 18-0-12, 240 lb down and 89 lb up at 20-0-12, 240 lb down and 89 lb up at 22-0-12, 240 lb down and 89 lb up at 24-0-12, 240 lb down and 89 lb up at 26-0-12, 321 lb down and 92 lb up at 28-0-12, 321 lb down and 92 lb up at 30-0-12, 321 lb down and 92 lb up at 32-0-12, 321 lb down and 92 lb up at 34-0-12, and 240 lb down and 89 lb up at 36-0-12, and 240 lb down and 93 lb up at 38-0-0 on top chord, and 603 lb down and 61 lb up at 6-0-0, and 679 lb down and 64 lb up at 37-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-80, 4-13=-80, 13-16=-80, 30-31=-20, 27-30=-20, 23-26=-20, 20-22=-20, 19-34=-20
- Concentrated Loads (lb)
 - Vert: 4=-293(B) 8=-212(B) 27=-78(B) 6=-212(B) 12=-293(B) 29=-603(B) 25=-78(B) 7=-212(B) 13=-212(B) 18=-679(B) 38=-293(B) 39=-293(B) 40=-293(B) 42=-293(B) 44=-212(B) 46=-212(B) 48=-212(B) 49=-293(B) 51=-293(B) 52=-293(B) 53=-212(B) 59=-78(B) 60=-78(B) 61=-78(B) 62=-78(B) 66=-78(B)



Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629207
2523912	A2	HIP	1	1		

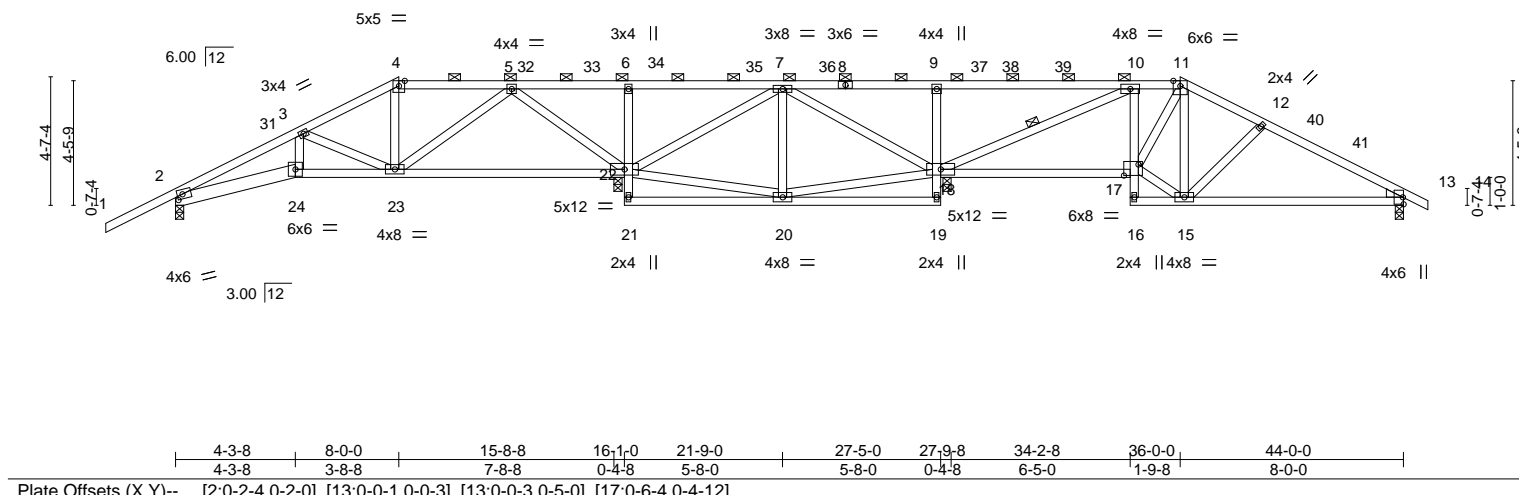
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:06 2020 Page 1

ID:b0jcEz00th2MAe1aMpWBnxzu4zl-tmlBt0FoFlpnh84XAyoGB0dxDhESVBLhbVNT3WYJBzJ

-2-6-0	4-3-8	8-0-0	12-0-8	16-1-0	21-9-0	27-5-0	34-2-8	36-0-0	38-10-12	44-0-0	44-10-8
2-6-0	4-3-8	3-8-8	4-0-8	4-0-8	5-8-0	5-8-0	6-9-8	1-9-8	2-10-12	5-1-4	0-10-8

Scale = 1:82.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.11 22-23	>999	240	MT20	197/144
(Roof Snow=20.0)	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.23 22-23	>859	180		
TCDL 20.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.05 13	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
8-11: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-24: 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 4-11.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-18

REACTIONS.

All bearings 0-3-8.
(lb) - Max Horz 2=95(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 22, 13 except 2=137(LC 14),
18=106(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 2=1155(LC 33), 22=1967(LC 32), 18=1841(LC 32), 13=1029(LC 33)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1637/152, 3-4=836/101, 4-5=704/113, 5-6=16/822, 6-7=7/817, 7-9=0/551,
9-10=0/498, 10-11=988/140, 11-12=885/131, 12-13=1284/150
BOT CHORD 2-24=74/1375, 23-24=71/1332, 22-23=0/289, 6-22=611/84, 9-18=792/111,
17-18=4/1056, 10-17=36/294, 13-15=72/1049
WEBS 3-23=727/114, 5-23=23/765, 5-22=1359/137, 7-22=809/80, 7-18=550/63,
10-18=1699/143, 15-17=0/858, 11-17=23/634, 12-15=481/104

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-6-0 to 0-5-13, Interior(1) 0-5-13 to 8-0-0, Exterior(2R) 8-0-0 to 12-0-8, Interior(1) 12-0-8 to 36-0-0, Exterior(2R) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 2 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) 22, 13 except (jt=lb) 2=137, 18=106.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced to ANSI/TPI 1.



November 14, 2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629207
2523912	A2	HIP	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629208
2523912	A3	Hip	1	1		

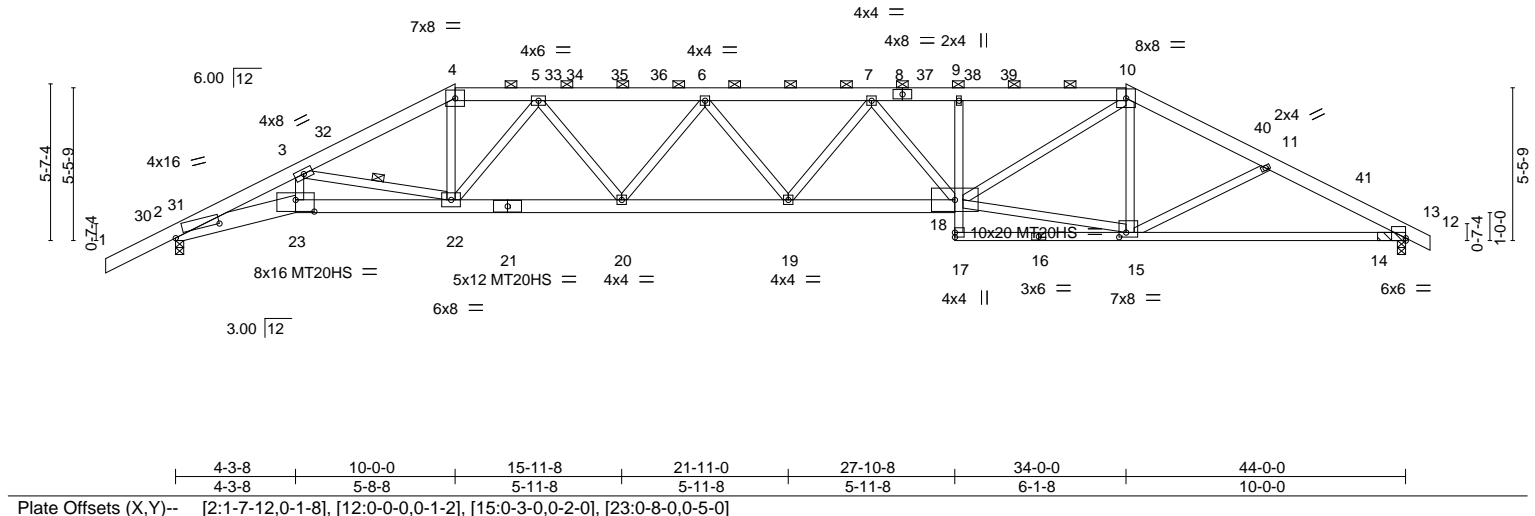
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8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:08 2020 Page 1

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2-6-0	4-3-8	10-0-0	12-11-12	18-11-4	24-10-12	27-10-8	34-0-0	38-11-13	44-0-0	44-10-8
2-6-0	4-3-8	5-8-8	2-11-12	5-11-8	5-11-8	2-11-12	6-1-8	4-11-13	5-0-3	0-10-8

Scale = 1:82.4



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.52 19	>999	240	MT20	197/144
(Roof Snow=20.0)	Lumber DOL	1.15	BC 0.83	Vert(CT)	-1.02 18-19	>517	180	MT20HS	148/108
TCDL 20.0	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.40 12	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SPF 2100F 1.8E *Except*	2-0-0 oc purlins (2-2-0 max.): 4-10.
2-23: 2x8 SP 2400F 2.0E, 9-17, 16-17: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
12-16: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 3-22
2x4 SPF No.2	

REACTIONS. (size) 2=0-3-8, 12=(0-3-8 + bearing block) (req. 0-3-14)
Max Horz 2=115(LC 13)
Max Uplift 2=239(LC 14), 12=185(LC 14)
Max Grav 2=2588(LC 33), 12=2458(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7816/630, 3-4=-5734/473, 4-5=-5122/458, 5-6=-6908/552, 6-7=-7593/595,
7-9=-6987/577, 9-10=-6958/579, 10-11=-4531/407, 11-12=-4603/431
BOT CHORD 2-23=-507/7060, 22-23=-493/6767, 20-22=-358/6228, 19-20=-443/7545, 18-19=-441/7498,
9-18=-566/86, 15-17=-24/432, 12-15=-319/4007
WEBS 3-23=-43/1370, 3-22=-1971/213, 4-22=-107/2132, 15-18=-211/3723, 10-18=-219/3447,
10-15=-527/68, 11-15=-463/103, 5-22=-1836/147, 5-20=-38/1139, 6-20=-1068/104,
7-18=-831/63

NOTES-

- 1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-6-0 to 0-6-0, Interior(1) 0-6-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 34-0-0, Exterior(2R) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCCL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=239, 12=185.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contr to standard ANSI/TPI 1.



November 14, 2020

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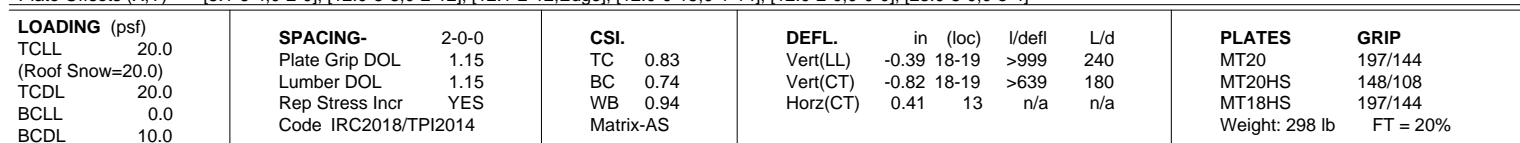
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629208
2523912	A3	Hip	1	1	Job Reference (optional)	

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

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 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Ek64jwJ3qR4nvyVzVORuRKnXiyAOHQkm5EkjJBZE
 29-10-8 44-10-8
 -0-10-8 4-3-8 8-1-12 12-0-0 15-3-7 21-10-4 27-10-8 28-5-2 32-0-0 36-10-4 39-5-4 41-8-8 44-0-0
 0-10-8 4-3-8 3-10-4 3-10-4 3-3-7 6-6-13 6-0-4 0-6-10 2-1-8 4-10-4 2-7-0 2-3-4 2-3-8 0-10-8
 1-5-6
 Scale = 1:79.3




REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=119(LC 13)
 Max Uplift 2=-187(LC 14), 13=-159(LC 14)
 Max Grav 2=2516(LC 33), 13=2405(LC 33)

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

TOP CHORD	2-3=-6945/625, 3-4=-5527/521, 4-5=-4839/469, 5-6=-4278/439, 6-7=-5582/510, 7-9=-5599/514, 9-10=-4450/446, 10-11=-4934/469, 11-12=-5885/539, 12-13=-1179/131
BOT CHORD	2-23=-521/6206, 22-23=-505/6019, 21-22=-370/4928, 19-21=-328/5201, 18-19=-373/5876, 16-18=-336/5241, 15-16=-433/5466, 12-15=-433/5466
WEBS	3-23=-48/980, 5-21=-153/2007, 10-16=-129/1818, 11-16=-1721/192, 6-21=-1658/143, 6-19=-6/695, 7-19=-535/75, 7-18=-505/72, 9-18=-3/652, 9-16=-1400/121, 11-15=0/293, 4-21=-1213/144, 4-22=-41/808, 3-22=-1518/145, 12-14=-45/544

NOTES-

- 1) Attached 13-8-4 scab 10 to 13, back face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 3-8-15 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-10-2; starting at 8-10-13 from end at joint 10, nail 2 row(s) at 2" o.c. for 4-4-4.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 43-10-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

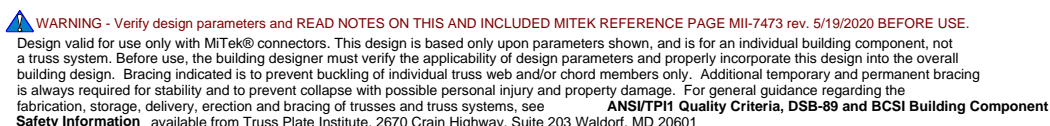


November 14, 2020

Continued on page 2



November 14.2020



Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629209
2523912	A4	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 9) Bearing at joint(s) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 13=159.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8.240 s Mar. 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:14 2020 Page 1

Scale = 1:76.8



- 1) Attached 8-5-15 scab 10 to 12, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-7 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 2-3-12 from end at joint 10, nail 3 row(s) at 7" o.c. for 5-5-5.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-0-0, Interior(1) 18-0-0 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCdL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb)

November 14.2020



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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629210
2523912	A5	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Sat Nov 14 17:35:14 2020
Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-eInDYILpMIqfeMh4edx8V4yH4wv_NncsQkJuL2yJBzB

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629211
2523912	A6	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:16 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-ahvzzRN3uM4MugrSm2_caV1c5jb6rhS9u2oPwyJBz9

0-10-8 4-3-8 10-1-12 16-0-0 22-0-0 28-0-0 29-10-8 35-9-8 41-8-8 44-0-0 44-10-8
0-10-8 4-3-8 5-10-4 5-10-4 6-0-0 6-0-0 1-10-8 5-11-0 5-11-0 2-3-8 0-10-8

Scale = 1:81.2

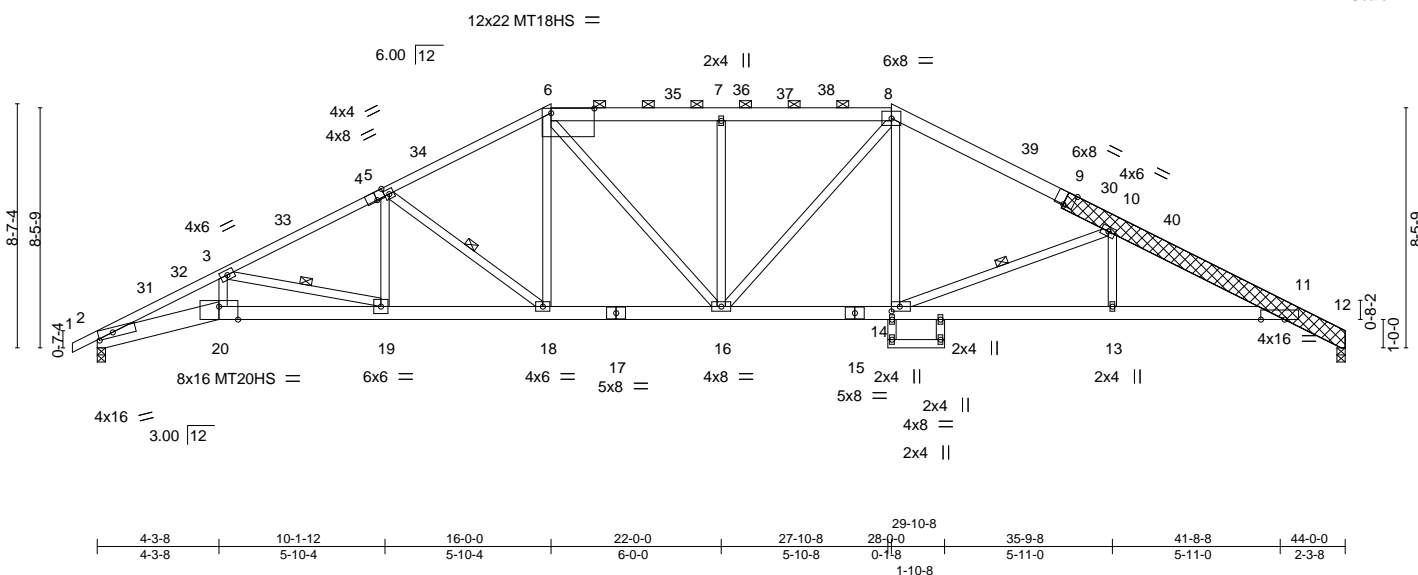


Plate Offsets (X,Y)-- [2:0-6-4,0-2-0], [4:0-3-11,Edge], [6:1-6-4,0-2-0], [9:0-4-0,Edge], [11:0-10-0,0-0-0], [14:0-3-8,0-2-0], [20:0-8-0,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20 197/144	
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.33 18 >999 240	MT20HS 148/108	
TCDL 20.0	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.69 16-18 >768 180	MT18HS 197/144	
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.40 12 n/a n/a	Weight: 319 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 4-6: 2x4 SPF No.2, 1-4: 2x4 SPF 1650F 1.5E 9-12: 2x8 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-5-11 max.): 6-8.
BOT CHORD 2x4 SPF No.2 *Except* 2-20: 2x8 SP 2400F 2.0E, 17-20,11-15: 2x6 SPF 2100F 1.8E 15-17: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 3-19, 5-18, 10-14
OTHERS 2x8 SP 2400F 2.0E	
LBR SCAB 9-12 2x8 SP 2400F 2.0E both sides	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=158(LC 13)
Max Uplift 2=187(LC 14), 12=158(LC 14)
Max Grav 2=2620(LC 33), 12=2564(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=7787/633, 3-5=5384/488, 5-6=4066/439, 6-7=3717/454, 7-8=3714/452,
8-10=4219/438, 10-11=6026/533, 11-12=-1138/118
BOT CHORD 2-20=531/7004, 19-20=516/6783, 18-19=323/4729, 16-18=-187/3480, 14-16=-186/3528,
13-14=420/5578, 11-13=420/5578
WEBS 3-20=45/1165, 3-19=2118/199, 5-19=-9/782, 5-18=-1536/168, 6-18=-50/1014,
6-16=-56/712, 7-16=-912/121, 8-16=-46/631, 10-13=0/344, 8-14=-38/981,
10-14=-2193/252

- NOTES-**
- Attached 11-1-14 scab 9 to 12, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-0 from end at joint 9, nail 2 row(s) at 7" o.c. for 4-5-11; starting at 6-7-7 from end at joint 9, nail 3 row(s) at 7" o.c. for 3-0-5.
 - Scab(s) 9 to 12 to provide bearing enhancement at jt.12, a cluster of 16 evenly spaced - 10d (0.131"x3") nails are required within 12" of jt.12. Total nails to be divided equally between front and back if scabs are on both sides. Bearing is assumed to be SP 2400F 2.0E.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - On all plates use 20 plates unless otherwise indicated.



November 14, 2020

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629211
2523912	A6	Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:16 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-ahvzzRN3uM4MugrSm2_caV1c5jb6rhS9u2o?PwyJBz9

- NOTES-**
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 12=158.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

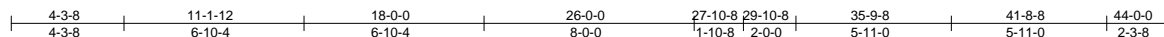
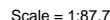
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

143629212

Job Reference (optional)



BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-8-7 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-23, 5-21, 9-20, 7-21, 7-20

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

TOP CHORD 2-3=-8045/633, 3-5=-5469/475, 5-6=-4001/123, 6-7=-3387/414, 7-8=-3398/407,
8-9=-3958/427, 9-11=-6361/595, 11-12=-6069/481, 12-13=-1158/118

BOT CHORD 2-24=-533/7248, 23-24=-519/7020, 21-23=-302/4771, 20-21=-160/3435, 19-20=-259/4287,
16-19=-264/4230, 14-16=-259/4287, 12-14=-359/5586

WEBS 3-24=-39/1230, 3-23=-2300/222, 5-23=0/743, 5-21=-1674/189, 6-21=-81/1194,
8-20=-96/1275, 9-20=-1332/185, 9-14=-166/1998, 11-14=-1237/187, 7-21=-382/93,
7-20=-335/106

November 14, 2020

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

 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	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629212
2523912	A7	Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:19 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-?Gb6bSPxBHSxl7a1RBXJC7f8ixcL25Nca01f0FyJBz6

NOTES-

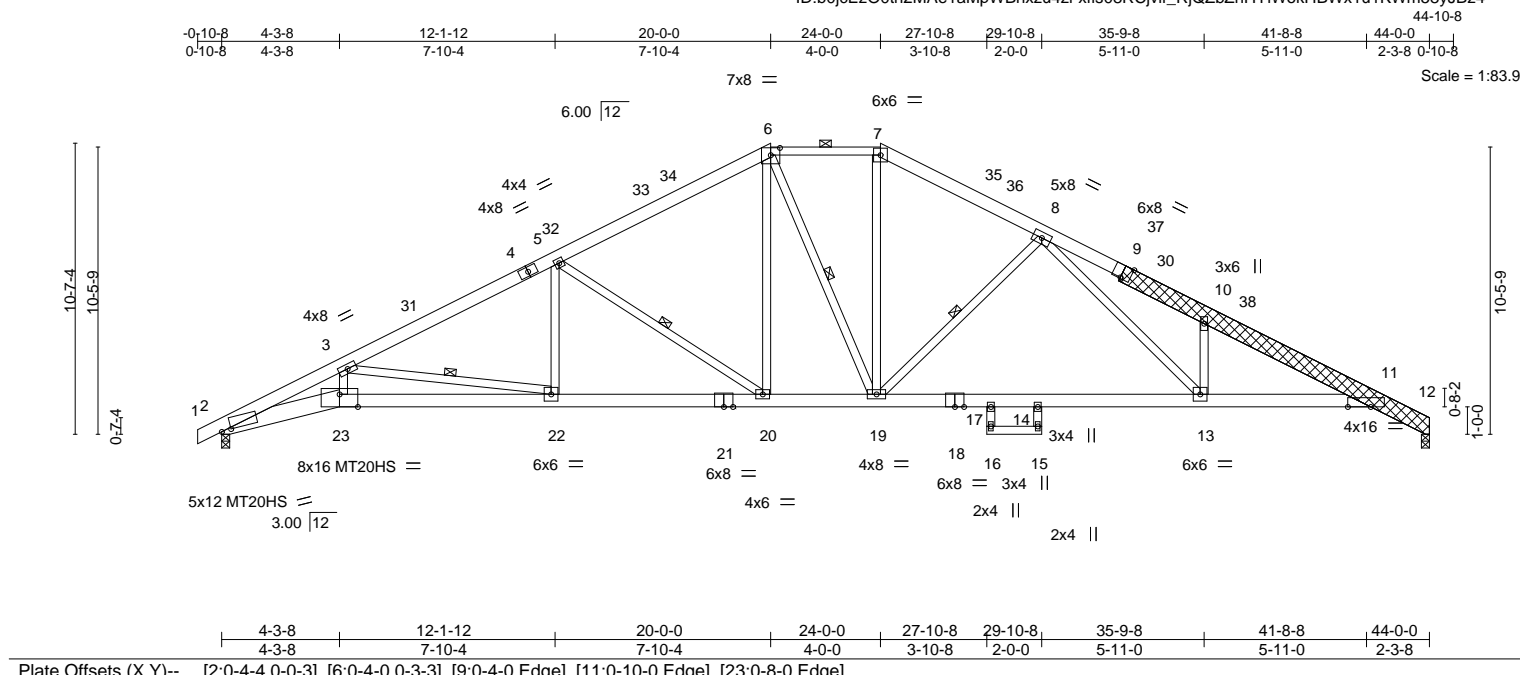
- 10) Bearing at joint(s) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 13=158.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 **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



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.36	22-23	>999	MT20	197/144
(Roof Snow=20.0)	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.71	22-23	>741	MT20HS	148/108
TCDL 20.0	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.43	12	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 344 lb	FT = 20%
BCDL 10.0									

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 6-7: 2x4 SPF No.2, 9-12: 2x8 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-11-2 max.): 6-7.
BOT CHORD	2x4 SPF No.2 *Except* 2-23: 2x8 SP 2400F 2.0E, 21-23,11-18: 2x6 SPF 2100F 1.8E 18-21: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-22, 5-20, 6-19, 8-19
OTHERS	2x8 SP 2400F 2.0E		
LBR SCAB	9-12 2x8 SP 2400F 2.0E both sides		

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=197(LC 13)
 Max Uplift 2=-187(LC 14), 12=-158(LC 14)
 Max Grav 2=2731(LC 33), 12=2667(LC 33)

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

TOP CHORD 2-3=8701/671, 3-5=5561/468, 5-6=3953/415, 6-7=3313/400, 7-8=3855/414,
8-10=6581/601, 10-11=6270/475, 11-12=1184/118

BOT CHORD 2-23=570/7886, 22-23=553/7547, 20-22=291/4904, 19-20=115/3299, 17-19=244/4319,
14-17=261/4241, 13-14=244/4319, 11-13=353/5777

WEBS 3-23=571/605, 3-22=2683/265, 5-22=0/733, 5-20=1914/211, 6-20=85/1107,
6-19=198/278, 7-19=94/1234, 8-19=1471/207, 8-13=168/2108, 10-13=1208/204

- NOTES-**
- 1) Attached 12-7-9 scab 9 to 12, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 8'-1-2 from end at joint 9, nail 3 row(s) at 4" o.c. for 3'-0-5.
 - 2) Scab(s) 9 to 12 to provide bearing enhancement at jt.12, a cluster of 16 evenly spaced - 10d (0.131"x3") nails are required within 12" of jt.12. Total nails to be divided equally between front and back if scabs are on both sides. Bearing is assumed to be SP 2400F 2.0E.
 - 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 1-10-0, Interior(1) 1-10-0 to 2-0-0-0, Exterior(2E) 2-0-0-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) All plates are MT20 plates unless otherwise indicated.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify



November 14.2020

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629213
2523912	A8	Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:21 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-xfis08RCjvif_RjQZbZnHYIWokHBWx1u1KWm58yJBz4

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 12=158.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629214
2523912	A9	Roof Special	3	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:22 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-PrGFDURqTCqWbcl6J40qmHfg8biFP12G_FJdayJBz3

0-10-8 4-3-8 10-2-5 16-1-8 22-0-0 27-10-8 33-2-14 38-7-5 44-0-0 44-10-8
0-10-8 4-3-8 5-10-13 5-11-2 5-10-8 5-10-8 5-4-6 5-4-6 5-4-11 0-10-8

Scale = 1:86.8

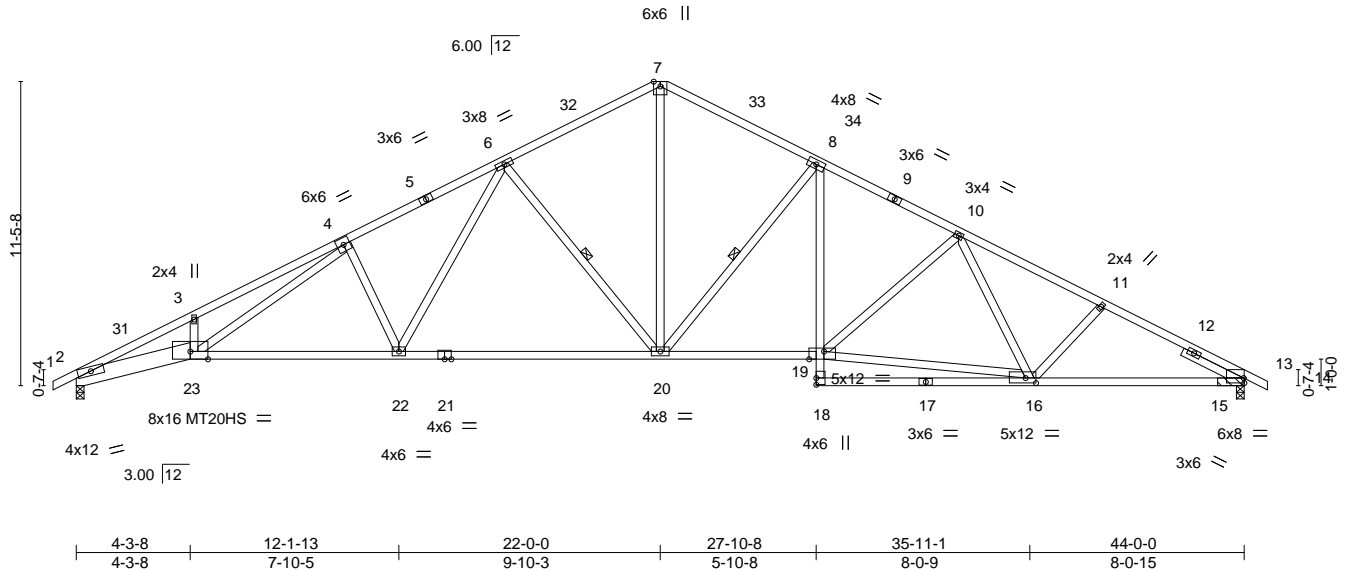


Plate Offsets (X,Y)-- [13:Edge,0-2-4], [16:0-4-11,0-2-4], [19:0-6-12,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	Vert(LL)	-0.30	22-23	>999	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.93	Vert(CT)	-0.86	20-22	>609	MT20HS	148/108
TCDL 20.0	Lumber DOL 1.15	WB 0.75	Horz(CT)	0.37	13	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5,9-14: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-23: 2x8 SP 2400F 2.0E, 21-23,13-17: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-20, 8-20

REACTIONS.

(size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-3-9)
Max Horz 2=-217(LC 12)
Max Uplift 2=-187(LC 14), 13=-191(LC 14)
Max Grav 2=2262(LC 1), 13=2275(LC 1)

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

TOP CHORD 2-3=-6515/583, 3-4=-6502/670, 4-6=-4138/479, 6-7=-2753/397, 7-8=-2756/395,
8-10=-3507/422, 10-11=-3679/403, 11-13=-3858/399
BOT CHORD 2-23=-456/5841, 22-23=-274/3981, 20-22=-156/3054, 19-20=-158/3067, 8-19=-50/751,
16-18=0/302, 13-16=-277/3350
WEBS 3-23=-250/107, 4-23=-232/2233, 4-22=-883/176, 6-22=-91/1150, 6-20=-1192/193,
7-20=-206/1856, 8-20=-1185/181, 16-19=-234/3046, 10-19=-386/104

NOTES-

- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-0-0, Exterior(2R) 22-0-0 to 25-0-0, Interior(1) 25-0-0 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 13=191.
- This truss 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.



November 14,2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629215
2523912	A9A	Roof Special	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:24 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-LEO?eAT4?q4ErvS?Ek7UvBNzfxM9jL7LjkQhTyJBz1

NOTES-

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

 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	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629216
2523912	A10	Roof Special	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:41 2020 Page 1
Job Reference (optional)						ID:b0jcEzO0th2MAe1aMpWBnxzu4Zl-6yllDty67cfKBglgDCrPg65fQcdo8wu0r6qegSyJBzi

0-10-8 4-3-8 11-2-4 18-1-0 22-0-0 29-3-14 36-7-13 44-0-0 44-10-8
0-10-8 4-3-8 6-10-12 6-10-12 3-11-0 7-3-14 7-3-14 7-4-3 0-10-8

Scale = 1:88.3

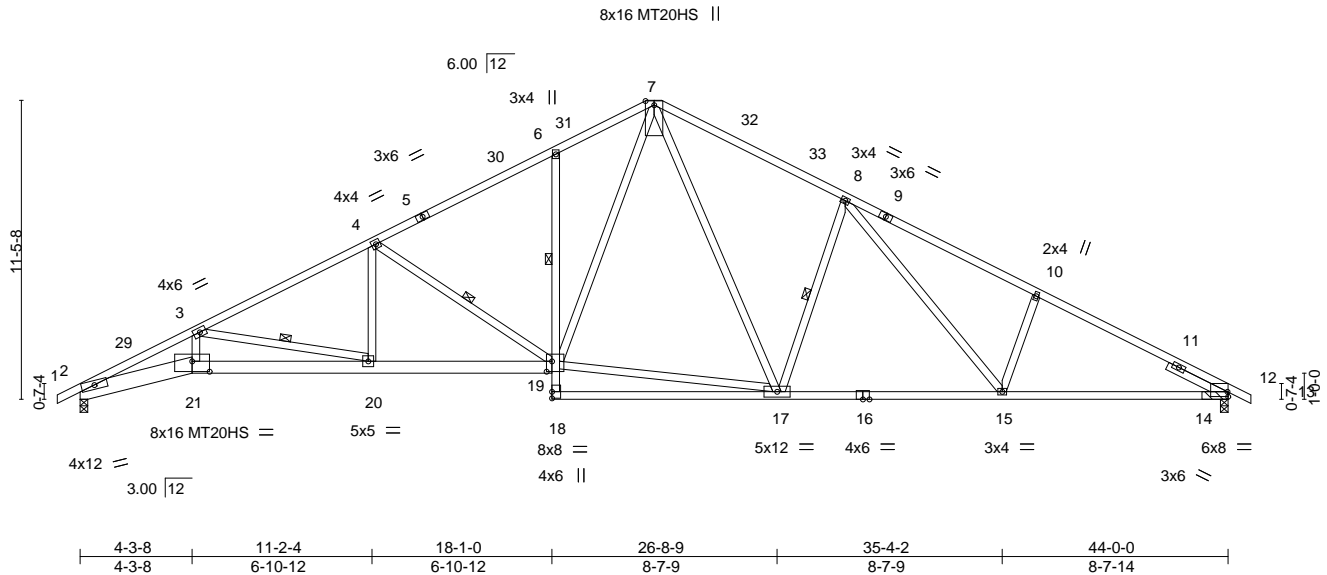


Plate Offsets (X,Y)--		[12:Edge,0-2-4], [19:0-2-8,0-4-12], [21:0-8-0,0-4-12]							
LOADING (psf)		SPACING-		CSL		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.81	in (loc)	l/defl	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.88	Vert(LL)	>999	MT20HS	148/108
TCDL	20.0	Rep Stress Incr	YES	WB	0.49	Vert(CT)	>806		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.30 12 n/a n/a		
BCDL	10.0							Weight: 224 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF 1650F 1.5E *Except*	BOT CHORD	Rigid ceiling directly applied. Except:
	2-21: 2x8 SP 2400F 2.0E, 19-21: 2x6 SPF 2100F 1.8E		1 Row at midpt 6-19
	6-18,16-18: 2x4 SPF No.2	WEBS	1 Row at midpt 3-20, 4-19, 8-17
WEBS	2x4 SPF No.2		
SLIDER	Right 2x4 SPF No.2 2-6-0		

REACTIONS.	
(size)	2=0-3-8, 12=(0-3-8 + bearing block) (req. 0-3-9)
Max Horz	2=-217(LC 12)
Max Uplift	2=-187(LC 14), 12=-191(LC 14)
Max Grav	2=2262(LC 1), 12=2275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-6648/604, 3-4=-4478/453, 4-6=-3281/411, 6-7=-3163/475, 7-8=-3010/453, 8-10=-3719/458, 10-12=-3856/400
BOT CHORD	2-21=-479/5980, 20-21=-468/5783, 19-20=-253/3916, 6-19=-499/132, 17-18=0/271, 15-17=-168/2839, 12-15=-262/3350
WEBS	3-21=-30/1040, 3-20=-1909/220, 4-20=0/733, 4-19=-1336/173, 17-19=-59/2001, 7-19=-187/1697, 7-17=-129/902, 8-17=-928/212, 8-15=-80/640, 10-15=-391/142

- NOTES-**
- 1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-0-0, Exterior(2R) 22-0-0 to 25-0-0, Interior(1) 25-0-0 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) The Fabrication Tolerance at joint 7 = 4%
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 191 lb uplift at joint 12.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629216
2523912	A10	Roof Special	1	1	Job Reference (optional)	

NOTES-

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629217
2523912	A11	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:43 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zL2LQV29zMfEw2Qbp6KdutiXA_4QGmcmsIIQJILyJBzg

0-10-8 4-3-8 11-2-4 18-1-0 19-10-8 24-1-8 30-8-14 37-4-5 44-0-0 44-10-8
0-10-8 4-3-8 6-10-12 6-10-12 1-9-8 4-3-0 6-7-6 6-7-6 6-7-11 0-10-8

Scale = 1:85.1

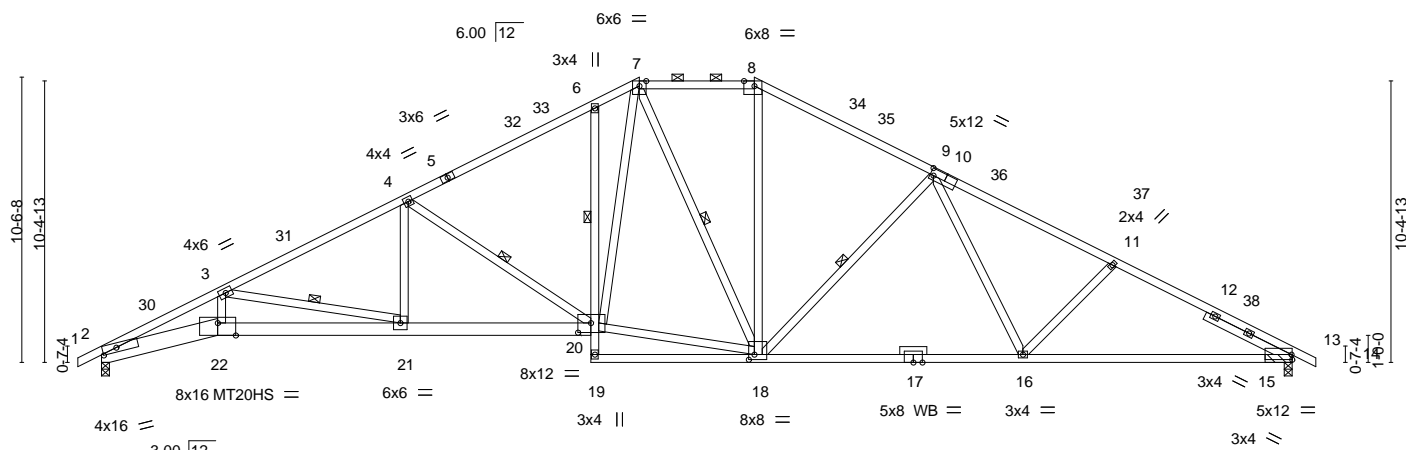


Plate Offsets (X,Y)--	[2:0-6-4,0-2-0], [8:0-4-10,Edge], [10:0-1-8,0-3-0], [10:0-0-0,0-1-12], [13:Edge,0-2-4], [18:0-2-8,0-2-4], [20:0-5-12,0-4-4], [22:0-8-0,Edge]
-----------------------	--

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	in (loc) l/defl L/d	MT20 197/144	
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.98	Vert(LL) -0.41 6-20 >999 240	MT20HS 148/108	
TCDL 20.0	Rep Stress Incr YES	WB 0.72	Vert(CT) -0.85 16-18 >617 180		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.38 13 n/a n/a		
BCDL 10.0				Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
7-8: 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
2-22: 2x8 SP 2400F 2.0E, 20-22: 2x6 SPF 2100F 1.8E
6-19: 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 3-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-0-6 max.): 7-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-20
WEBS 1 Row at midpt 3-21, 4-20, 7-18, 9-18

REACTIONS.

(size) 2=0-3-8, 13=0-3-8 + bearing block) (req. 0-4-5)
Max Horz 2=197(LC 12)
Max Uplift 2=187(LC 14), 13=191(LC 14)
Max Grav 2=2726(LC 33), 13=2741(LC 33)

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

TOP CHORD 2-3=-8186/623, 3-4=-5637/466, 4-6=-4159/423, 6-7=-3961/482, 7-8=-2949/396,
8-9=-3503/403, 9-11=-4530/418, 11-13=-4787/418
BOT CHORD 2-22=-501/7371, 21-22=-489/7138, 20-21=-269/4965, 6-20=-465/128, 18-19=-20/273,
16-18=-208/3747, 13-16=-292/4197
WEBS 3-22=-33/1247, 3-21=-2221/225, 4-21=0/773, 4-20=-1727/176, 18-20=-74/2920,
7-20=-197/2053, 7-18=-605/35, 8-18=-66/956, 9-18=-1148/172, 9-16=-4/535,
11-16=-359/123

NOTES-

- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 19-10-8, Exterior(2E) 19-10-8 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 44-10-8 zone; cantilever left and right exposed; 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
- TCCL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 191 lb uplift at joint 13.



November 14, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629217
2523912	A11	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Sat Nov 14 17:34:43 2020
Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-2LQV29zMfEw2Qbp6KdutiXA_4QGmcmsIIQJILyJBzg

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



Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629218
2523912	A12	Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:46 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-Sw5dgA0Fy8ldH3Yh?IRaNAoVtdIhp6HI_NXPMgyJBzd

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 191 lb uplift at joint 12.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

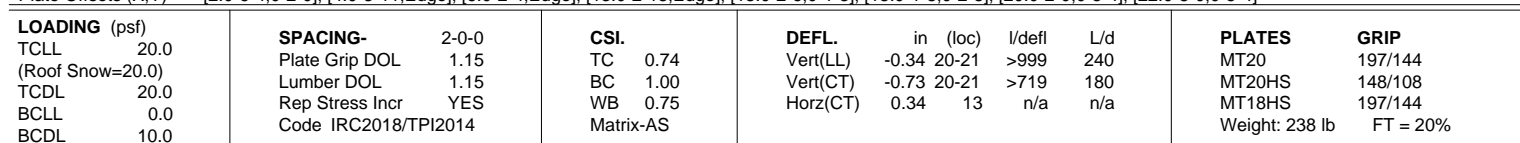
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:48 2020 Page 1
 ID:b0jcEzO0th2MAe1aMpWBnxzu4zlPIDO5s1VUmYlXMi47AT2SbtkR_fh1W2Sh0WQYyJzBb
 -0-10-8 4-3-8 10-1-0 15-10-8 18-1-0 23-1-4 28-1-8 36-0-9 44-10-8
 0-10-8 4-3-8 5-9-8 5-9-8 2-2-8 5-0-4 5-0-4 7-11-1 7-11-7 0-10-8
 Scale = 1:79.1



REACTIONS. (size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-4-2)
 Max Horz 2=-159(LC 12)
 Max Uplift 2=-187(LC 14), 13=-191(LC 14)
 Max Grav 2=2615(LC 33), 13=2629(LC 33)

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

TOP CHORD	2-3=-7765/618, 3-5=-5361/472, 5-6=-5391/569, 6-7=-3586/433, 7-8=-3582/433, 8-9=-3177/418, 9-11=-3632/402, 11-13=-4627/416
BOT CHORD	2-22=-492/6983, 21-22=-478/6764, 20-21=-169/3455, 7-20=-502/77, 17-18=-150/3035, 15-17=-285/4032, 13-15=-285/4032
WEBS	3-22=-45/1159, 3-21=-2118/204, 5-21=-723/156, 18-20=-155/3069, 8-20=-26/704, 8-18=-1091/113, 9-18=-48/605, 9-17=-17/677, 11-17=-1117/154, 11-15=0/299, 6-21=-187/1973, 6-20=-41/853

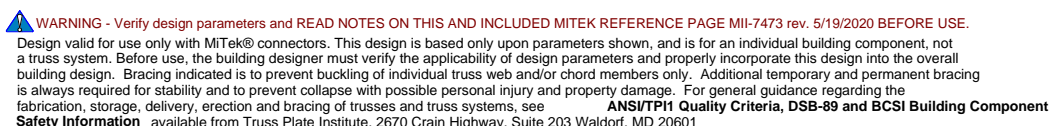
- NOTES-**

 - 1) 2x4 SPF No.2 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-10-8, Exterior(2R) 15-10-8 to 20-1-7, Interior(1) 20-1-7 to 28-1-8, Exterior(2R) 28-1-8 to 32-4-7, Interior(1) 32-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) The Fabrication Tolerance at joint 6 = 12%
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2



November 14.2020



Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629219
2523912	A13	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 191 lb uplift at joint 13.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629220
2523912	A14	HIP	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:52 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-H4SvxE4?Y_2m0_?rM0Y_cR2Ub2L8DobdNJ_jZJyJBzX

0-10-8 6-2-3 12-4-0 13-10-8 16-8-8 23-5-0 30-1-8 37-0-9 44-0-0 44-10-8
0-10-8 6-2-3 6-1-13 1-6-8 2-10-0 6-8-8 6-8-8 6-11-1 6-11-7 0-10-8

Scale = 1:80.6

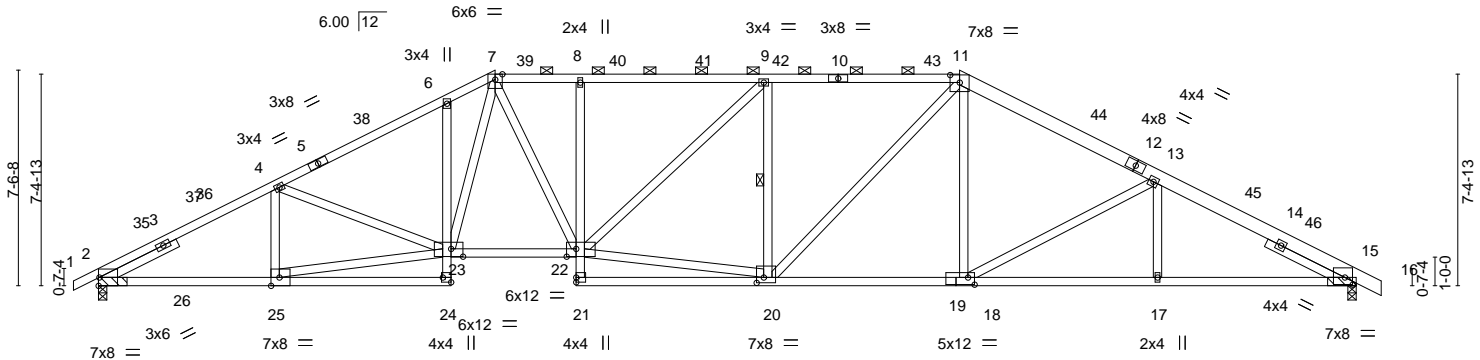


Plate Offsets (X,Y)--	[11:0-4-0,0-3-3], [15:0-2-6,0-1-3], [15:0-3-4,0-3-0], [19:0-0-0,0-1-12], [19:0-2-12,0-3-0], [20:0-3-0,0-2-4], [22:0-4-0,0-3-4], [23:0-5-0,0-3-4], [24:Edge,0-3-8], [25:0-3-8,Edge]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.29 22-23 >999 240		
TCDL 20.0	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.65 22-23 >807 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.27 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 228 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 7-10,10-11: 2x4 SPF 1650F 1.5E, 11-12,12-16: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-5-3 max.): 7-11.
BOT CHORD 2x4 SPF No.2 *Except* 2-24: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 9-20
SLIDER Left 2x4 SPF No.2 3-0-0, Right 2x4 SPF No.2 3-0-0	

REACTIONS.	(size) 2=(0-3-8 + bearing block) (req. 0-4-0), 15=(0-3-8 + bearing block) (req. 0-4-0)
	Max Horz 2=140(LC 13)
	Max Uplift 2=191(LC 14), 15=191(LC 14)
	Max Grav 2=2564(LC 33), 15=2570(LC 33)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-4306/398, 4-6=-4368/448, 6-7=-4258/504, 7-8=-4184/456, 8-9=-4172/456, 9-11=-3873/437, 11-13=-3643/404, 13-15=-4321/413
BOT CHORD	2-25=-267/3754, 6-23=-485/121, 22-23=-193/3643, 8-22=-707/114, 18-20=-178/3222, 17-18=-290/3857, 15-17=-290/3857
WEBS	4-25=-554/100, 23-25=-265/3555, 4-23=0/468, 20-22=-219/3691, 9-22=-25/548, 9-20=-1128/138, 11-20=-64/956, 11-18=-5/588, 13-18=-922/128, 7-23=-143/1240, 7-22=-94/1231

- NOTES-**
- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 2 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - 2x4 SPF No.2 bearing block 12" long at jt. 15 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-10-8, Exterior(2R) 13-10-8 to 18-1-7, Interior(1) 18-1-7 to 30-1-8, Exterior(2R) 30-1-8 to 34-4-7, Interior(1) 34-4-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 191 lb uplift at joint 2 and 191 lb uplift at joint 15.

Continued on page 2



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629220
2523912	A14	HIP	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629221
2523912	A15	HIP	1	1		

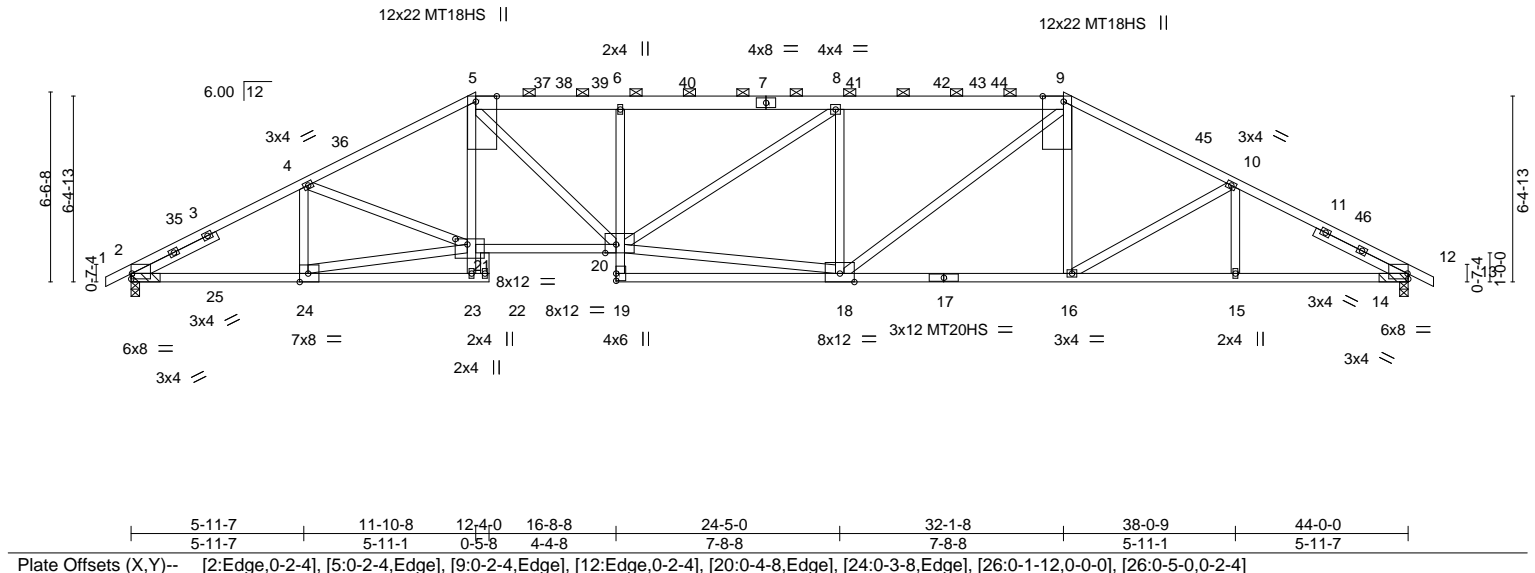
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:54 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-DSafLv6G3clUFI9ETQaShs7tAs3mhiNwqdTqeCyJBzV

-0-10-8 5-11-7 11-10-8 12-4-0 16-8-8 24-5-0 32-1-8 38-0-9 44-0-0 44-10-8
0-10-8 5-11-7 5-11-1 0-5-8 4-4-8 7-8-8 7-8-8 5-11-1 5-11-7 0-10-8

Scale = 1:79.4



LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.				PLATES		GRIP		
TCLL	20.0	Plate Grip DOL		1.15		TC	0.81	Vert(LL)	in (loc)	l/defl	L/d	MT20	197/144			
(Roof Snow=20.0)		Lumber DOL		1.15		BC	0.89	Vert(CT)	-0.36	20-21	>999	240	MT20HS	148/108		
TCDL	20.0	Rep Stress Incr		YES		WB	0.92	Horz(CT)	-0.75	20-21	>697	180	MT18HS	197/144		
BCLL	0.0	Code IRC2018/TPI2014				Matrix-AS						Weight: 221 lb		FT = 20%		
BCDL	10.0															

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 5-7,7-9: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-5-10 max.): 5-9.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 22-26,6-19,17-19: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 18-20: 2x4 SPF 1650F 1.5E	
SLIDER Left 2x4 SPF No.2 3-2-12, Right 2x4 SPF No.2 3-6-0	

REACTIONS.	(size) 2=(0-3-8 + bearing block) (req. 0-3-15), 12=(0-3-8 + bearing block) (req. 0-3-15)
	Max Horz 2=120(LC 13)
	Max Uplift 2=187(LC 14), 12=189(LC 14)
	Max Grav 2=2520(LC 33), 12=2514(LC 33)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-4160/392, 4-5=-4787/444, 5-6=-5470/505, 6-8=-5428/502, 8-9=-4861/470, 9-10=-4024/402, 10-12=-4133/399
BOT CHORD	2-24=-268/3637, 20-21=-236/4274, 6-20=-899/126, 18-19=-8/359, 16-18=-205/3586, 15-16=-285/3617, 12-15=-285/3617
WEBS	4-24=-583/104, 5-20=-115/1707, 18-20=-275/4559, 8-20=-42/665, 8-18=-1475/173, 9-18=-106/1629, 9-16=0/446, 10-16=-578/92, 5-21=-21/734, 21-24=-265/3596, 4-21=0/680

- NOTES-**
- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 2 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-8, Exterior(2R) 11-10-8 to 16-1-7, Interior(1) 16-1-7 to 32-1-8, Exterior(2R) 32-1-8 to 36-4-7, Interior(1) 36-4-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 5 = 8%, joint 9 = 8%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629221
2523912	A15	HIP	1	1	Job Reference (optional)	

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 189 lb uplift at joint 12.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629222
2523912	A16	Hip Structural Gable	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:34:56 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-AriPmb7WbDYCubJcbrdnHCBBfoY9hpDHxyi5yJBzT

-0-10-8	4-11-7	9-10-8	12-4-0	16-8-8	23-9-0	30-8-0	34-1-8	40-0-0
0-10-8	4-11-7	4-11-1	2-5-8	4-4-8	7-0-8	6-11-0	3-5-8	5-10-8

Scale = 1:72.5

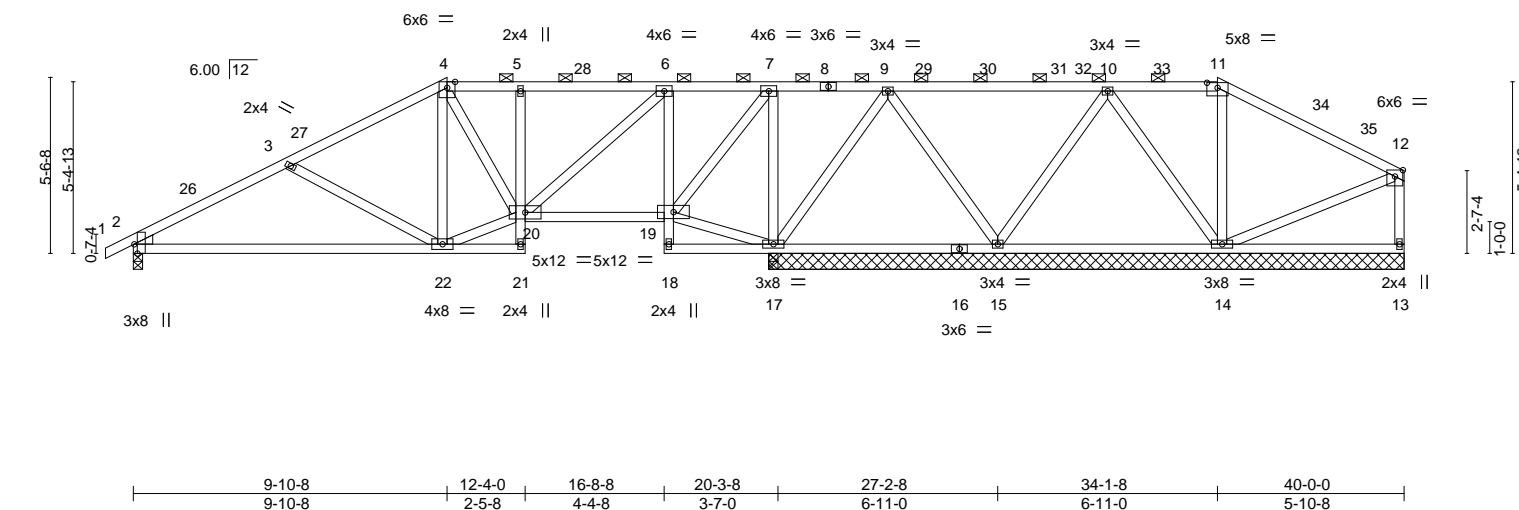


Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [11:0-4-0,0-1-15]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.15		TC 0.90		Vert(LL)		-0.14 22-25		>999		240		MT20		197/144	
(Roof Snow=20.0)		Lumber DOL		1.15		BC 0.61		Vert(CT)		-0.30 22-25		>814		180					
TCDL 20.0		Rep Stress Incr		YES		WB 0.61		Horz(CT)		0.02 17		n/a		n/a					
BCLL 0.0		Code IRC2018/TPI2014				Matrix-AS													
BCDL 10.0																Weight: 189 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, and 2-0-0 oc purlins (2-2-0 max.): 4-11.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

All bearings 20-0-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=140(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 13, 15 except 17=157(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 2=1167(LC 33), 14=680(LC 32), 13=334(LC 33), 17=2371(LC 32), 17=1908(LC 1), 15=687(LC 32)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1583/164, 3-4=-972/125, 4-5=-760/123, 5-6=-775/124, 7-9=-79/783, 9-10=-12/284, 12-13=-282/45
BOT CHORD 2-22=-168/1330, 5-20=-452/69, 6-19=-1177/159, 15-17=-343/100
WEBS 3-22=-667/132, 20-22=-26/796, 6-20=-126/987, 11-14=-454/90, 7-17=-1275/127, 17-19=-795/178, 7-19=-115/1280, 9-17=-885/125, 10-15=-634/104

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-10-8, Exterior(2R) 9-10-8 to 14-1-7, Interior(1) 14-1-7 to 34-1-8, Exterior(2R) 34-1-8 to 38-4-7, Interior(1) 38-4-7 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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, 14, 13, 15 except (jt=lb) 17=157.
- This truss 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.



November 14, 2020

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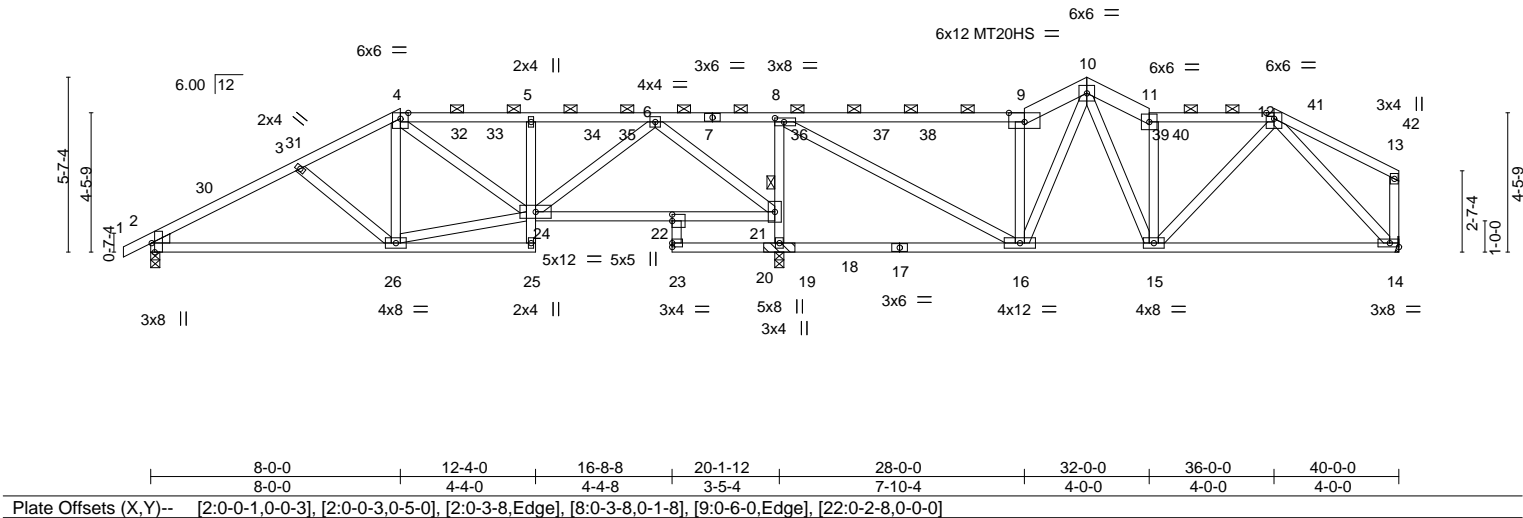
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629223
2523912	A17	Roof Special	1	1		
Job Reference (optional)						

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:00 2020 Page 1
ID:b0jcEzO0th2MAe1aMpWBnxzu4zi-2cxwczA1fS3ezDdNqhhsx7NtoGDE5TcPCZw8rsyJBzP
-0-10-8 4-9-8 8-0-0 12-4-0 16-2-0 16-8-8 20-1-12 22-4-4 28-0-0 30-0-0 32-0-0 36-0-0 40-0-0
0-10-8 4-9-8 3-2-8 4-4-0 3-10-0 0-6-8 3-5-4 2-2-8 5-7-12 2-0-0 2-0-0 4-0-0 4-0-0
Scale = 1:73.8



LOADING (psf)		SPACING- 2-0-0		CSL		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.15		TC	0.92	Vert(LL)	-0.10	14-15	>999	240	MT20	197/144	
(Roof Snow=20.0)		Lumber DOL 1.15		BC	0.43	Vert(CT)	-0.20	14-15	>999	180	MT20HS	148/108	
TCDL	20.0	Rep Stress Incr YES		WB	0.68	Horz(CT)	0.01	14	n/a	n/a			
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 189 lb FT = 20%		
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
	4-7,7-9: 2x4 SPF 1650F 1.5E, 9-10,10-11: 2x6 SPF No.2		2-0-0 oc purlins (2-2-0 max.): 4-9, 11-12.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 8-19
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS.	(size) 2=0-3-8, 19=(0-3-8 + bearing block) (req. 0-4-7), 14=Mechanical
	Max Horiz 2=141(LC 13)
	Max Uplift 2=104(LC 14), 19=137(LC 14), 14=76(LC 14)
	Max Grav 2=1178(LC 40), 19=2812(LC 39), 14=1027(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1598/220, 3-4=-1240/208, 4-5=-1411/233, 5-6=-1419/227, 6-8=-22/512, 8-9=-963/203, 9-10=-1244/268, 10-11=-1335/240, 11-12=-1103/189, 13-14=-269/76
BOT CHORD	2-26=-225/1331, 5-24=-580/94, 22-24=-88/646, 21-22=-94/995, 19-23=-349/14, 16-19=-473/41, 15-16=-103/832, 14-15=-117/768
WEBS	24-26=-121/1017, 4-24=-44/394, 19-21=-2600/295, 8-21=-1650/202, 8-16=-173/1633, 9-16=-1221/215, 10-16=-122/583, 10-15=-92/791, 11-15=-970/155, 12-15=-23/499, 12-14=-1053/153, 3-26=-436/98, 6-24=-86/989, 6-21=-1481/156

- NOTES-**
- 1) 2x4 SPF No.2 bearing block 12" long at jt. 19 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-0-0, Interior(1) 32-0-0 to 36-0-0, Exterior(2R) 36-0-0 to 39-0-0, Interior(1) 39-0-0 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCDL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=104, 19=137.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contr to the standard ANSI/TPI 1.



November 14,2020

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629223
2523912	A17	Roof Special	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629224
2523912	A18	Roof Special Girder	1	1		

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

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ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-TBd3E_DvyNRCqgLyVpFZZI?OUU69InaFuX9pSBYJBzM

0-10-8	3-0-3	6-0-0	9-2-0	12-4-0	16-2-0	16-8-8	20-1-12	21-4-4	26-0-0	30-0-0	34-0-0	38-0-0	40-0-0
0-10-8	3-0-3	2-11-13	3-2-0	3-2-0	3-10-0	0-6-8	3-5-4	1-2-8	4-7-12	4-0-0	4-0-0	4-0-0	2-0-0

Scale = 1:73.8

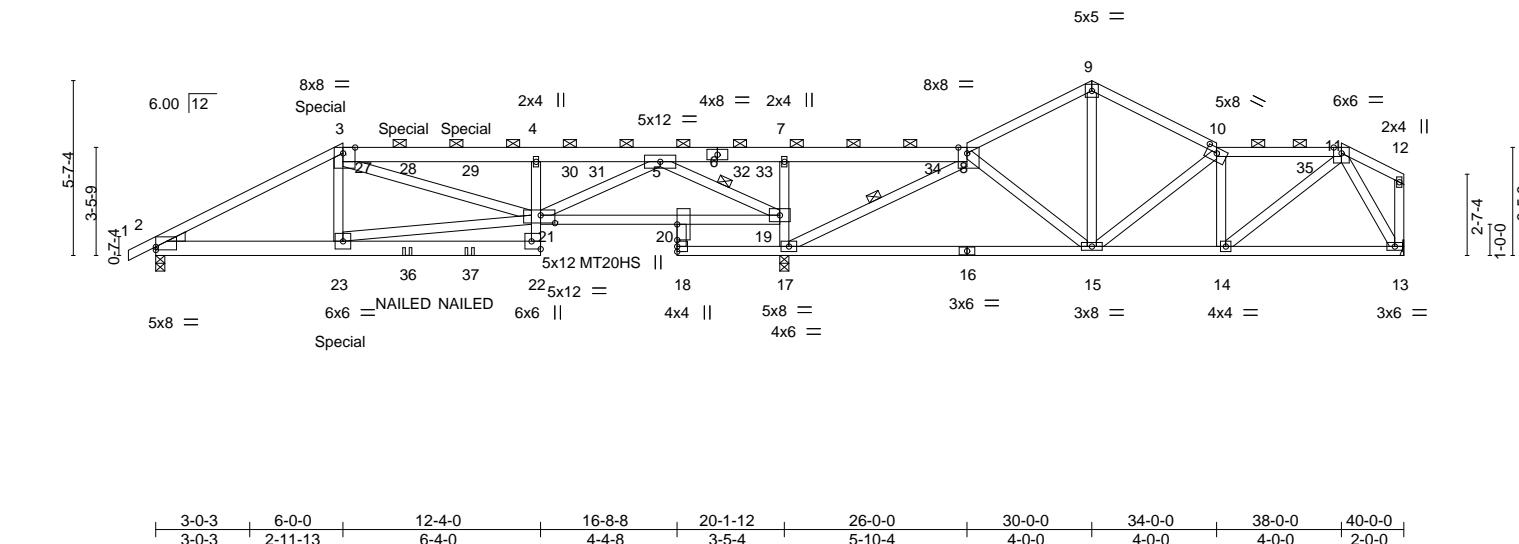


Plate Offsets (X,Y)-- [2:0-0,0-1-3], [3:0-4-10,Edge], [8:0-3-6,Edge], [10:0-4-0,0-2-0], [20:0-6-0,0-0-0], [21:0-5-8,0-3-0], [22:Edge,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.15		TC 0.96		Vert(LL) -0.17 15-17 >999 240		MT20 197/144	
(Roof Snow=20.0)		Lumber DOL 1.15		BC 0.93		Vert(CT) -0.35 15-17 >675 180		MT20HS 148/108	
TCDL 20.0		Rep Stress Incr NO		WB 0.86		Horz(CT) 0.04 13 n/a n/a			
BCLL 0.0		Code IRC2018/TPI2014		Matrix-MS				Weight: 194 lb FT = 20%	
BCDL 10.0									

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
3-6: 2x6 SPF 2100F 1.8E, 6-8: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-22: 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 3-8, 10-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-20,17-18.
WEBS 1 Row at midpt 8-17, 5-19

REACTIONS.

(size) 2=0-3-8, 13=Mechanical, 17=0-3-8 (req. 0-5-3)
Max Horz 2=142(LC 9)
Max Uplift 2=174(LC 10), 13=106(LC 63), 17=190(LC 10)
Max Grav 2=2026(LC 36), 13=983(LC 16), 17=3291(LC 35)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3437/279, 3-4=-4000/366, 4-5=-4039/357, 5-7=-49/976, 7-8=-41/826,
8-9=-1077/199, 9-10=-1075/199, 10-11=-1213/190
BOT CHORD 2-23=-196/3024, 22-23=-21/528, 4-21=-1070/154, 20-21=-132/1677, 19-20=-142/2173,
17-18=-497/10, 15-17=-220/917, 14-15=-117/1236, 13-14=-55/520
WEBS 3-23=-25/478, 9-15=-109/487, 10-15=-621/76, 10-14=-511/104, 17-19=-2299/206,
7-19=-872/106, 8-17=-1735/126, 11-14=-110/917, 11-13=-1003/117, 21-23=-185/2503,
3-21=-111/1042, 5-21=-171/2669, 5-19=-2997/218

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
- 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) 2=174, 13=106, 17=190.
- This truss 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.

Continued on page 2



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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside
2523912	A18	Roof Special Girder	1	1	I43629224
Job Reference (optional)					

- NOTES-**
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down and 93 lb up at 6-0-0, and 240 lb down and 89 lb up at 8-0-12, and 240 lb down and 89 lb up at 10-0-12 on top chord, and 679 lb down and 64 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-80, 3-8=-80, 8-9=-80, 9-10=-80, 10-11=-80, 11-12=-80, 22-24=-20, 20-21=-20, 13-18=-20

Concentrated Loads (lb)

Vert: 3=-212(F) 23=-679(F) 28=-212(F) 29=-212(F) 36=-78(F) 37=-78(F)

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629225
2523912	B1	GABLE	1	1		

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

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ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-pQyNsWUim7C5T21BoRejSOvLnLrRSwCUyyUzEvyJBz0

Job Reference (optional)

0-10-8 10-0-0 20-0-0 20-10-8
0-10-8 10-0-0 10-0-0 0-10-8

Scale = 1:37.4

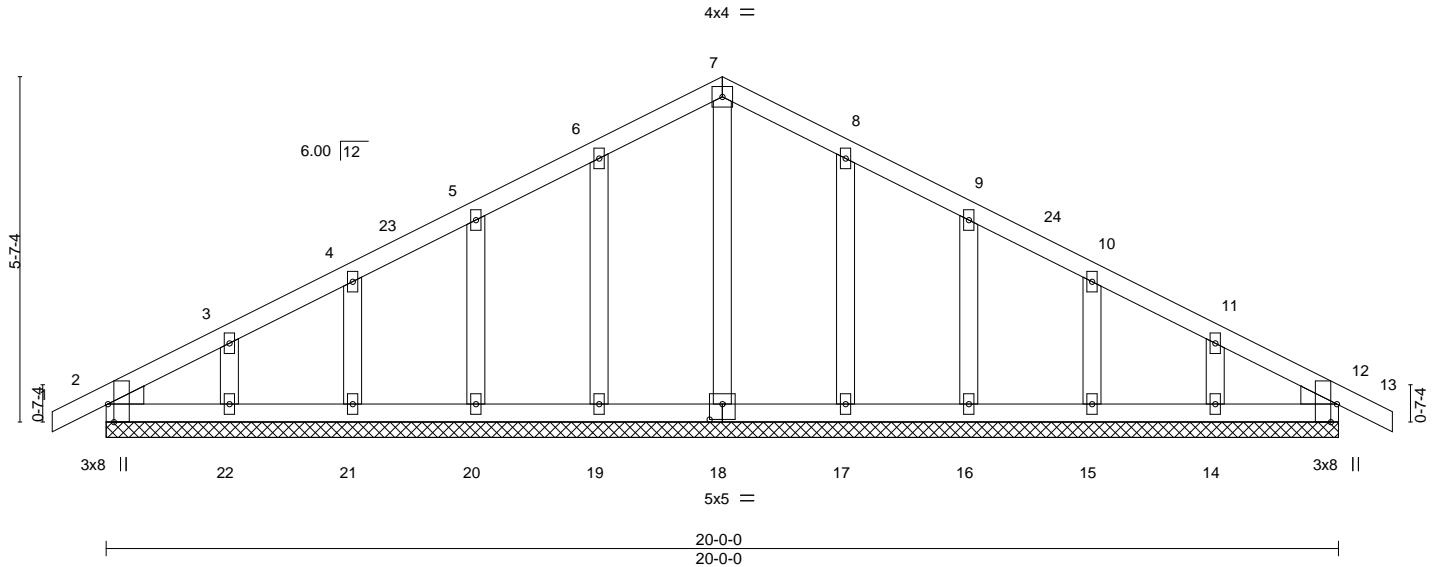


Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [12:0-3-8,Edge], [12:0-0-3,0-5-0], [12:0-0-1,0-0-3], [18:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	12	n/r	120	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	12	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 81 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

BRACING-

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

REACTIONS.

All bearings 20-0-0.
(lb) - Max Horz 2=104(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 21, 22, 15, 14, 12 except 19=284(LC 19), 20=260(LC 19), 17=284(LC 20), 16=260(LC 20)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCCL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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, 19, 20, 21, 22, 17, 16, 15, 14, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629226
2523912	B2	Common	3	1		

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

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ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-HcWI3sVKXRKy5CcNL99y_cSQVI0MBKpeBcDWmLyJBz?

Job Reference (optional)

5-0-3	10-0-0	14-11-13	20-0-0	20-10-8
5-0-3	4-11-13	4-11-13	5-0-3	0-10-8

Scale = 1:36.7

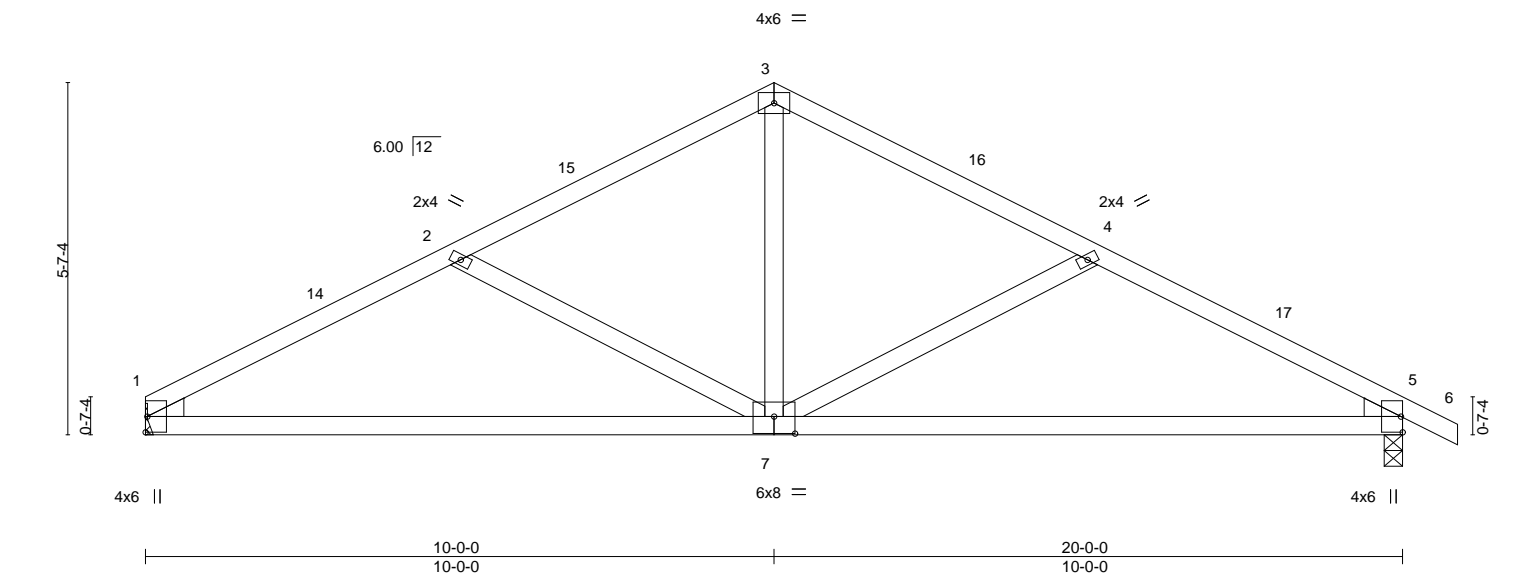


Plate Offsets (X,Y)--		[1:0-0-1,0-0-3], [1:0-0-3,0-5-0], [5:0-0-3,0-5-0], [5:0-0-1,0-0-3], [7:0-4-0,0-3-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	in (loc) l/defl L/d
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.75	Vert(LL) -0.13 7-10 >999 240
TCDL 20.0	Rep Stress Incr YES	WB 0.31	Vert(CT) -0.28 7-10 >862 180
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.04 5 n/a n/a
BCDL 10.0			
		PLATES	GRIP
		MT20	197/144
		Weight: 69 lb	FT = 20%

LUMBER-

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

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

BRACING-

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

REACTIONS.

(size) 1=Mechanical, 5=0-3-8
Max Horz 1=102(LC 12)
Max Uplift 1=73(LC 14), 5=100(LC 14)
Max Grav 1=1037(LC 19), 5=1110(LC 20)

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

TOP CHORD 1-2=-1699/306, 2-3=-1235/242, 3-4=-1233/240, 4-5=-1693/301
BOT CHORD 1-7=-191/1459, 5-7=-196/1451
WEBS 3-7=-64/638, 4-7=-529/162, 2-7=-536/164

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 1 except (jt=lb) 5=100.
- This truss 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.



November 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629227
2523912	B3	Common	5	1		

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

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ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-mp47HCvzIlSpIMBavsgBXp_bK9MZwn3nQGz4loyJBz_

Job Reference (optional)

5-0-3 10-0-0 14-11-13 20-0-0
5-0-3 4-11-13 4-11-13 5-0-3

Scale = 1:36.2

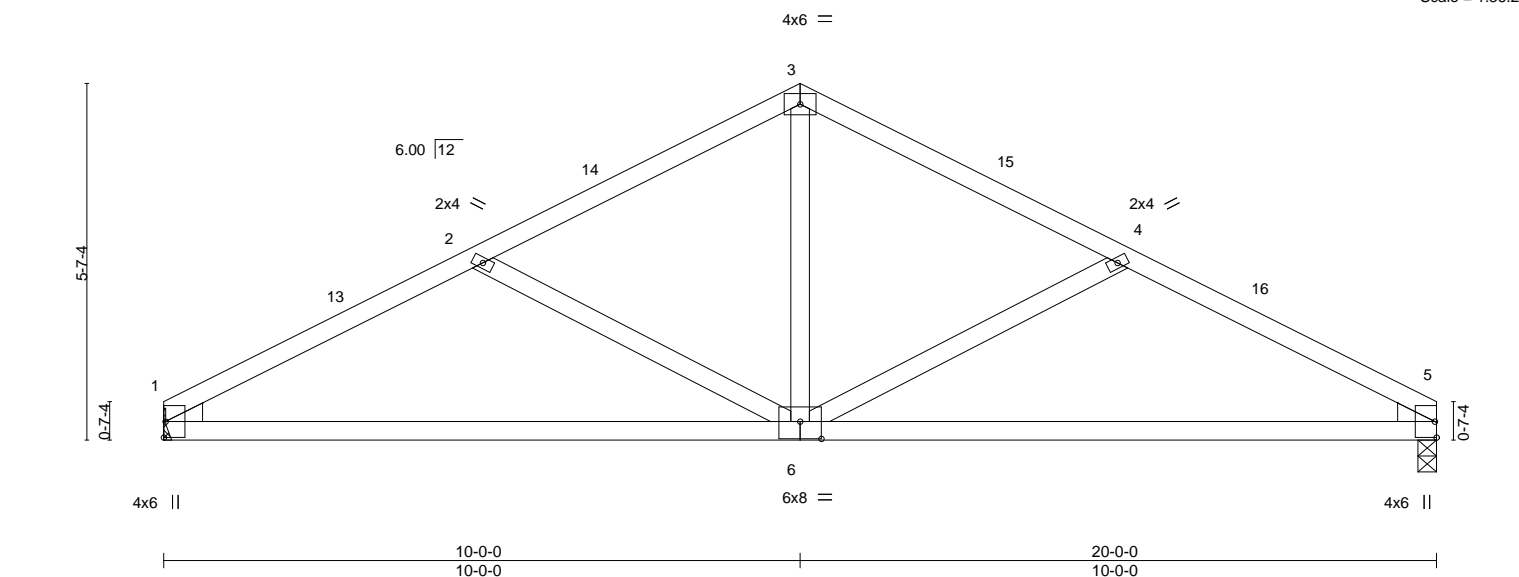


Plate Offsets (X,Y)--		[1:0-0-1,0-0-3], [1:0-0-3,0-5-0], [5:0-0-3,0-5-0], [5:0-0-1,0-0-3], [6:0-4-0,0-3-4]	
LOADING (psf)	SPACING-	CSL	DEFL.
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.13 6-9 >999 240
TCDL 20.0	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.28 6-9 >866 180
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 5 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		
		PLATES	GRIP
		MT20	197/144
		Weight: 68 lb	FT = 20%

LUMBER-

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

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

BRACING-

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

REACTIONS.

(size) 1=Mechanical, 5=0-3-8
Max Horz 1=-95(LC 12)
Max Uplift 1=-73(LC 14), 5=-73(LC 14)
Max Grav 1=1038(LC 18), 5=1038(LC 19)

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

TOP CHORD 1-2=-1701/307, 2-3=-1237/243, 3-4=-1237/243, 4-5=-1701/307
BOT CHORD 1-6=-216/1461, 5-6=-211/1461
WEBS 3-6=-64/640, 4-6=-536/164, 2-6=-536/164

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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) 1, 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.
- 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.



November 14, 2020

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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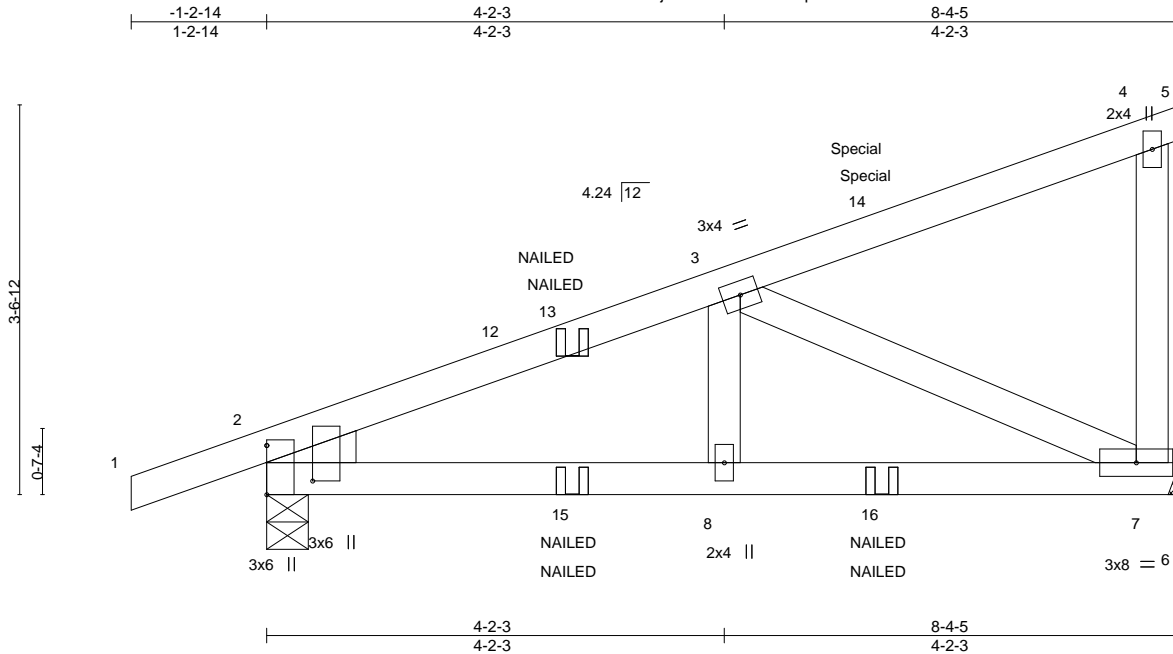
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629228
2523912	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:28 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-E?eWUXWb32afKWmmTZBQ41Xm5ZmWfE_wewidqEyJByz



Scale = 1:21.0

Plate Offsets (X,Y)-- [2:0-3-14,0-5-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	Vert(LL)	-0.02	7-8	>999	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.39	Vert(CT)	-0.04	7-8	>999		
TCDL 20.0	Lumber DOL 1.15	WB 0.27	Horz(CT)	0.01	7	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 32 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 or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=115(LC 9)
Max Uplift 7=42(LC 7), 2=-70(LC 10)
Max Grav 7=630(LC 15), 2=618(LC 15)

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

TOP CHORD 2-3=-846/51
BOT CHORD 2-8=-73/758, 7-8=-73/758
WEBS 3-7=-833/72

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 7, 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 60 lb up at 5-7-7, and 108 lb down and 60 lb up at 5-7-7 on top 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-80, 4-5=-80, 6-9=-20



November 14, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629228
2523912	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Sat Nov 14 17:35:29 2020
Page 2
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LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 14=-129(F=-64, B=-64) 15=-16(F=-8, B=-8) 16=-77(F=-38, B=-38)

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629229
2523912	CJ2	Diagonal Hip Girder	1	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:30 2020 Page 1

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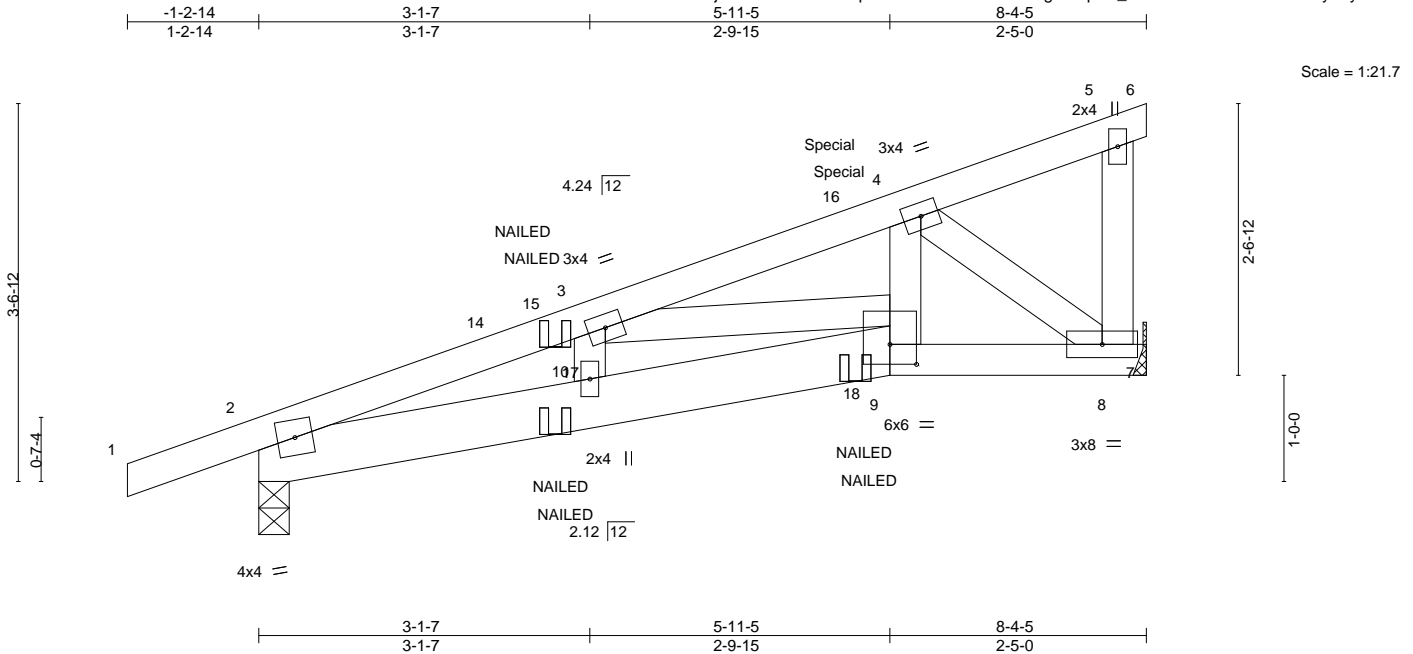


Plate Offsets (X,Y)-- [9:0-3-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.02	9-10	>999	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.04	9-10	>999		
TCDL 20.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.01	8	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-9: 2x6 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 2=0-3-7
 Max Horz 2=97(LC 7)
 Max Uplift 8=-33(LC 7), 2=-65(LC 10)
 Max Grav 8=631(LC 15), 2=621(LC 15)

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

TOP CHORD 2-3=-1232/53, 3-4=-825/42
 BOT CHORD 2-10=-79/1131, 9-10=-80/1164, 8-9=-63/689
 WEBS 3-9=-398/34, 4-9=0/431, 4-8=-853/65

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 54 lb up at 5-7-7, and 97 lb down and 54 lb up at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



November 14, 2020

Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629229
2523912	CJ2	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:30 2020 Page 2
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-ANIGvDYrbgrNZqv8a_Eu9ScBoMTI7AfD6DBku7yJByx

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-5=-80, 5-6=-80, 9-11=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 16=-92(F=-46, B=-46) 17=-20(F=-10, B=-10) 18=-113(F=-56, B=-56)

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629230
2523912	D1	Common Supported Gable	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:31 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-eaJe6ZYTmzzEBzUL8il7hf9OQmuwfsfZNKtxHQZyJByw

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

Scale = 1:20.2

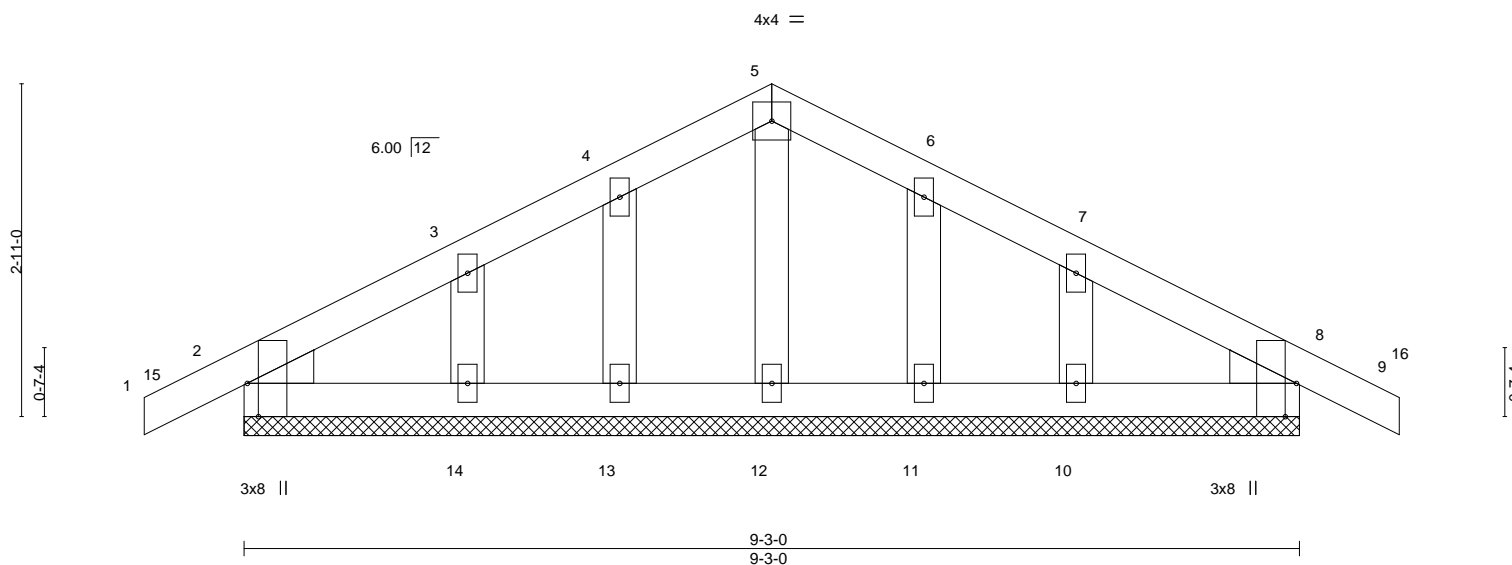


Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [8:0-0-1,0-0-3], [8:0-0-3,0-5-0], [8:0-3-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00	8	n/r	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	8	n/r		
TCDL 20.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	8	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

BRACING-

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

REACTIONS.

All bearings 9-3-0.
(lb) - Max Horz 2=52(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 4-7-8, Corner(3R) 4-7-8 to 7-7-8, Exterior(2N) 7-7-8 to 10-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14,2020

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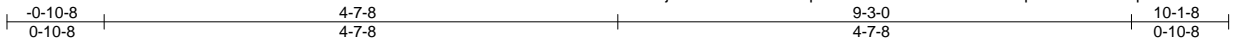
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629231
2523912	D2	Common	4	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:32 2020 Page 1

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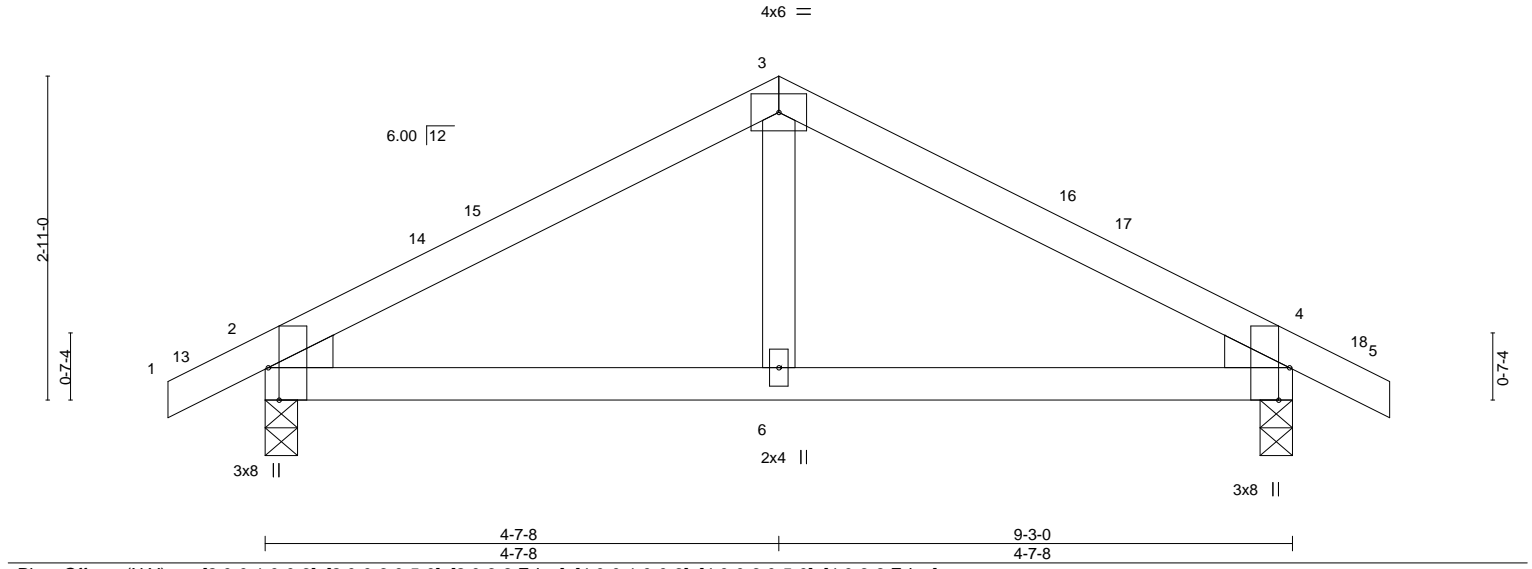


Plate Offsets (X,Y)--		[2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge], [4:0-0-1,0-0-3], [4:0-0-3,0-5-0], [4:0-3-8,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.02 6-9 >999 240
TCDL 20.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.03 6-9 >999 180
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		
		PLATES	GRIP
		MT20	197/144
		Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=52(LC 13)
 Max Uplift 2=60(LC 14), 4=60(LC 14)
 Max Grav 2=634(LC 19), 4=634(LC 20)

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

TOP CHORD 2-3=-625/220, 3-4=-625/220
 BOT CHORD 2-6=-93/470, 4-6=-93/470

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-8, Exterior(2R) 4-7-8 to 7-7-8, Interior(1) 7-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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, 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.
- 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.



November 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629232
2523912	E1	Hip Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:34 2020 Page 1
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-29?nlbbMfuLp2RDwpqJlNhQznQ3xFp1r9y1uyJByt

Job Reference (optional)

0-10-8	3-0-3	6-0-0	10-0-0	14-0-0	16-11-13	20-0-0
0-10-8	3-0-3	2-11-13	4-0-0	4-0-0	2-11-13	3-0-3

Scale = 1:35.1

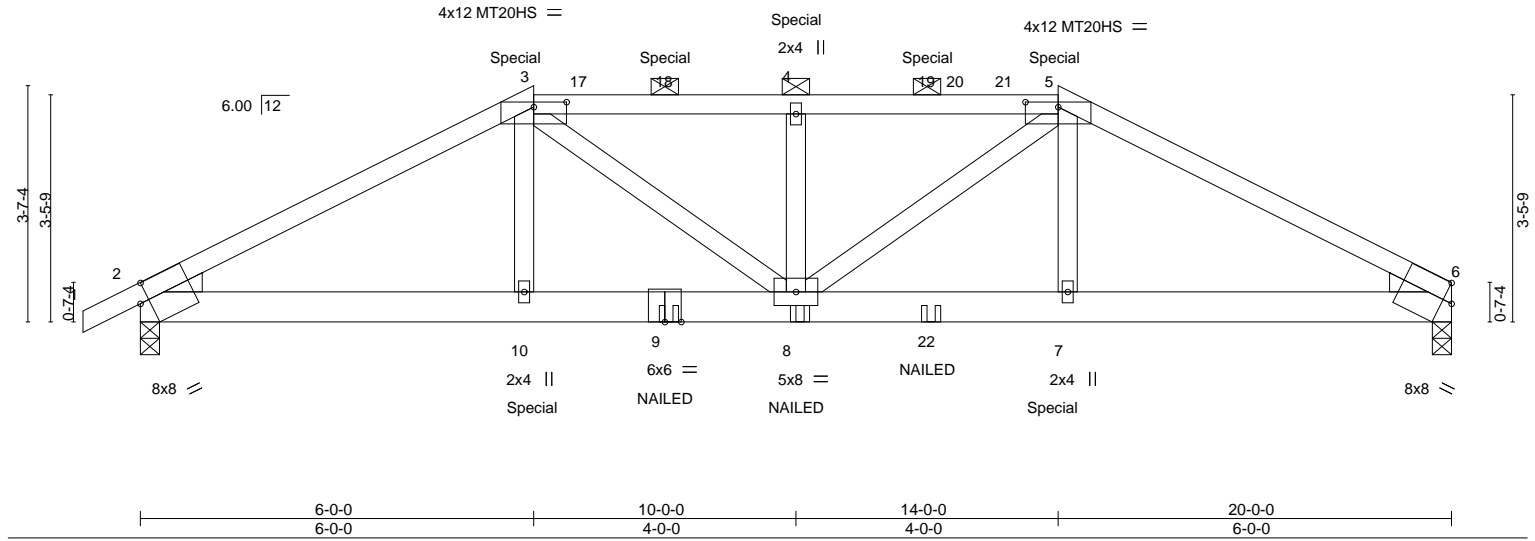


Plate Offsets (X,Y)--		[2:0-1-11,0-3-7], [3:0-6-0,0-0-15], [5:0-6-0,0-0-15], [6:Edge,0-3-7]	
LOADING (psf)	SPACING	CSI	DEFL.
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.14 8 >999 240
TCDL 20.0	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.27 8 >900 180
BCLL 0.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 6 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		
		PLATES	GRIP
		MT20 197/144	
		MT20HS 148/108	
		Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except 2-0-0 oc purlins (2-6-2 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=62(LC 9)
Max Uplift 6=-179(LC 10), 2=-206(LC 10)
Max Grav 6=2499(LC 29), 2=2606(LC 29)

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

TOP CHORD 2-3=-4554/353, 3-4=-4712/394, 4-5=-4712/394, 5-6=-4572/357
BOT CHORD 2-10=-258/3937, 8-10=-258/3905, 7-8=-262/3921, 6-7=-261/3954
WEBS 3-10=0/698, 5-7=0/709, 4-8=-1059/164, 5-8=-94/1143, 3-8=-96/1155

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 6=179, 2=206.
- This truss 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down and 93 lb up at 6-0-0, 240 lb down and 89 lb up at 8-0-12, 240 lb down and 89 lb up at 10-0-12, and 240 lb down and 89 lb up at 12-0-12, and 240 lb down and 93 lb up at 14-0-0 on top chord, and 679 lb down and 64 lb up at 6-0-0, and 679 lb down and 64 lb up at 13-11-4 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

Continued on page 2



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629232
2523912	E1	Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-80, 3-5=-80, 5-6=-80, 11-14=-20

Concentrated Loads (lb)

Vert: 3=-212(F) 5=-212(F) 9=-78(F) 10=-679(F) 7=-679(F) 4=-212(F) 8=-78(F) 18=-212(F) 19=-212(F) 22=-78(F)

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629233
2523912	E2	Hip	1	1		

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

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ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-XLZ9yxc_QCTggbo6NYp3sVKsbN3KoR7yFVvVZKyJBys

Job Reference (optional)

0-10-8	8-0-0	12-0-0	20-0-0
0-10-8	8-0-0	4-0-0	8-0-0

Scale = 1:34.6

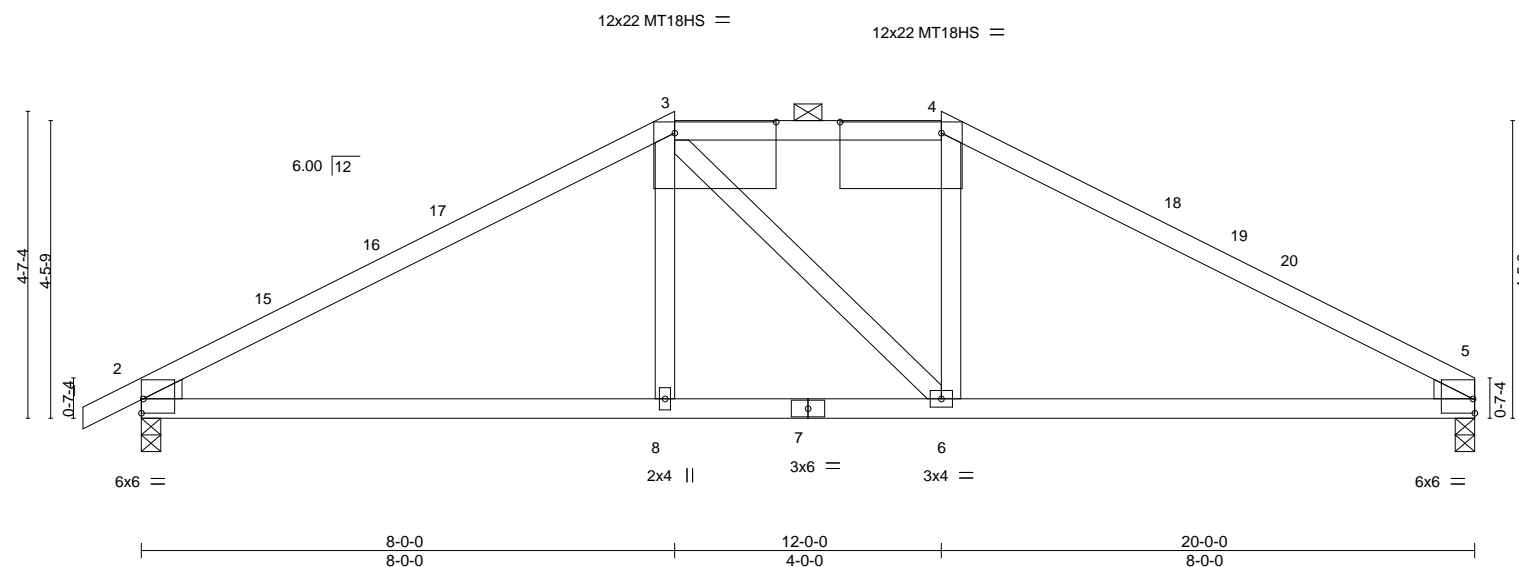


Plate Offsets (X,Y)-- [2:0-0-3,0-0-1], [2:0-5-0,0-0-3], [2:Edge,0-2-9], [3:1-6-4,0-2-0], [4:1-6-4,0-2-0], [5:0-0-3,0-0-1], [5:0-5-0,0-0-3], [5:Edge,0-2-9]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.15		TC 0.95		in (loc) l/defl L/d		MT20 197/144	
(Roof Snow=20.0)		Lumber DOL 1.15		BC 0.82		Vert(LL) -0.15 6-14 >999 240		MT18HS 197/144	
TCDL 20.0		Rep Stress Incr YES		WB 0.12		Vert(CT) -0.28 6-14 >868 180			
BCLL 0.0		Code IRC2018/TPI2014		Matrix-AS		Horz(CT) 0.04 2 n/a n/a			
BCDL 10.0								Weight: 66 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except*	TOP CHORD Structural wood sheathing directly applied, except
3-4: 2x4 SPF No.2	2-0-0 oc purlins (3-9-8 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=82(LC 13)
Max Uplift 2=100(LC 14), 5=73(LC 14)
Max Grav 2=1383(LC 33), 5=1272(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1805/234, 3-4=1440/257, 4-5=1810/231
BOT CHORD 2-8=131/1440, 6-8=132/1434, 5-6=122/1446

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 4 = 16%, joint 3 = 16%
 - 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) 5 except (jt=lb) 2=100.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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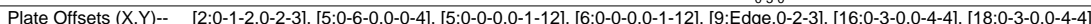
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

143629234

Scale = 1:45.7



LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-13,8-13: 2x6 SPF No.
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING- TOP CHORD	Structural wood sheathing directly applied or 4-11-6 oc purlins, except 2-0-0 oc purlins (5-2-15 max.): 5-6.
BOT CHORD JOINTS	Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Brace at Jt(s): 22, 18, 12, 20, 14

REACTIONS. (size) 9=(0-3-8 + bearing block) (req. 0-3-12), 2=(0-3-8 + bearing block) (req. 0-3-13)
 Max Horz 2=99(LC 9)
 Max Uplift 9=234(LC 10), 2=261(LC 10)
 Max Grav 9=4755(LC 29), 2=4856(LC 29)

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

TOP CHORD	3-28=-8081/404, 3-4=-841/1412, 4-5=-6249/334, 5-6=-5401/316, 6-7=-6249/334, 7-8=-8380/408, 8-9=-8121/412
BOT CHORD	2-21=-313/6722, 15-21=-254/5552, 11-15=-261/5621, 9-11=-322/6763, 3-22=-7/827, 20-22=-7/827, 18-20=-142/3365, 17-18=-5/1216, 16-17=-5/1216, 14-16=-139/3341, 12-14=0/762, 8-12=0/762
WEBS	4-22=-7/1193, 4-18=-2170/142, 5-18=-104/2401, 6-16=-103/2391, 7-16=-2146/140, 7-12=-3/1164, 15-17=-23/1306, 21-22=-460/70, 20-21=-65/1276, 15-20=-1508/80, 11-12=-446/70, 11-14=-67/1246, 14-15=-1576/88

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 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) 2x4 SPF No.2 bearing block 12" long at jt. 2 attached to each face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners per block. Bearing is assumed to be SPF No.2.
 - 4) 2x4 SPF No.2 bearing block 12" long at jt. 9 attached to each face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners per block. Bearing is assumed to be SPF No.2.
 - 5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDFL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 6) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Ce=1.0; Cs=1.00; Ct=1.10
 - 7) Unbalanced snow loads have been considered for this design.
 - 8) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs
- Combined Occurrence with other live loads.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629234
2523912	E3	Hip Girder	1	2	Job Reference (optional)	

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

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NOTES-

- 9) Provide adequate drainage to prevent water ponding.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=234, 2=261.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

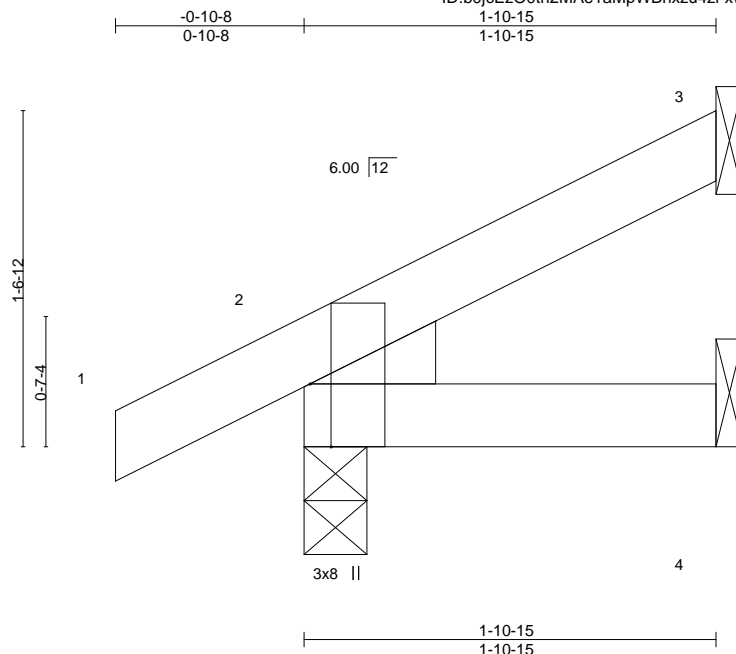
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-80, 5-6=-80, 6-9=-80, 24-27=-20, 30-33=-20
 - Concentrated Loads (lb)
 - Vert: 13=-700(F) 17=-700(F) 30=-700(F) 33=-700(F) 37=-700(F) 38=-700(F) 39=-700(F) 40=-700(F) 41=-700(F)

Job 2523912	Truss M1	Truss Type Jack-Open	Qty 8	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629235
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:38 2020 Page 1

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Scale = 1:10.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15	TC 0.08	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 7 lb	FT = 20%

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 or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=45(LC 14)
Max Uplift 3=14(LC 14), 2=28(LC 14)
Max Grav 3=70(LC 19), 2=232(LC 19), 4=35(LC 5)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 3, 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.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss M2	Truss Type Jack-Open	Qty 8	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629236
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:39 2020 Page 1

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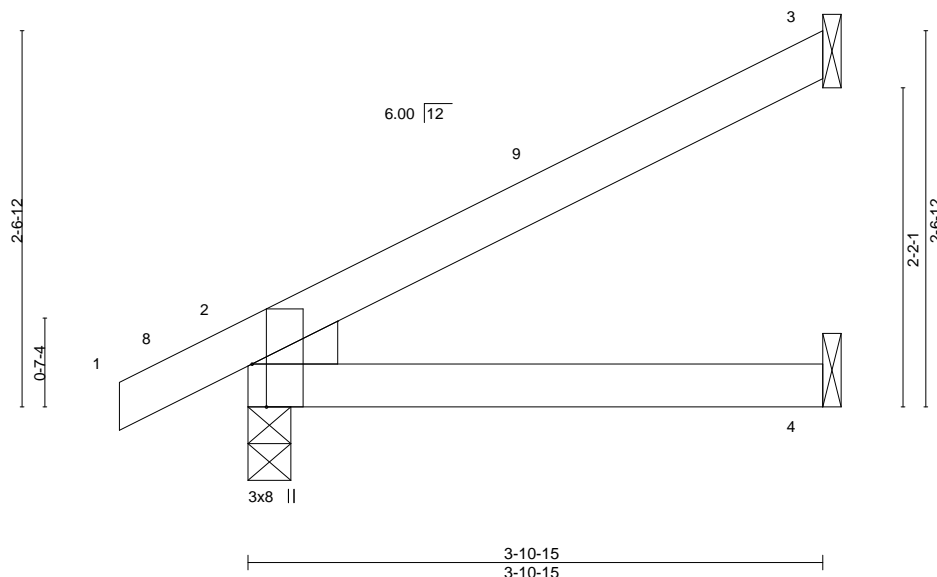


Plate Offsets (X,Y)-- [2:0-0-1,0-0-3], [2:0-0-3,0-5-0], [2:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	-0.02	4-7	>999	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	-0.03	4-7	>999		
TCDL 20.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	2	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 11 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 or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=72(LC 14)
Max Uplift 3=33(LC 14), 2=26(LC 14)
Max Grav 3=177(LC 19), 2=365(LC 19), 4=76(LC 5)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 3, 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.



November 14, 2020

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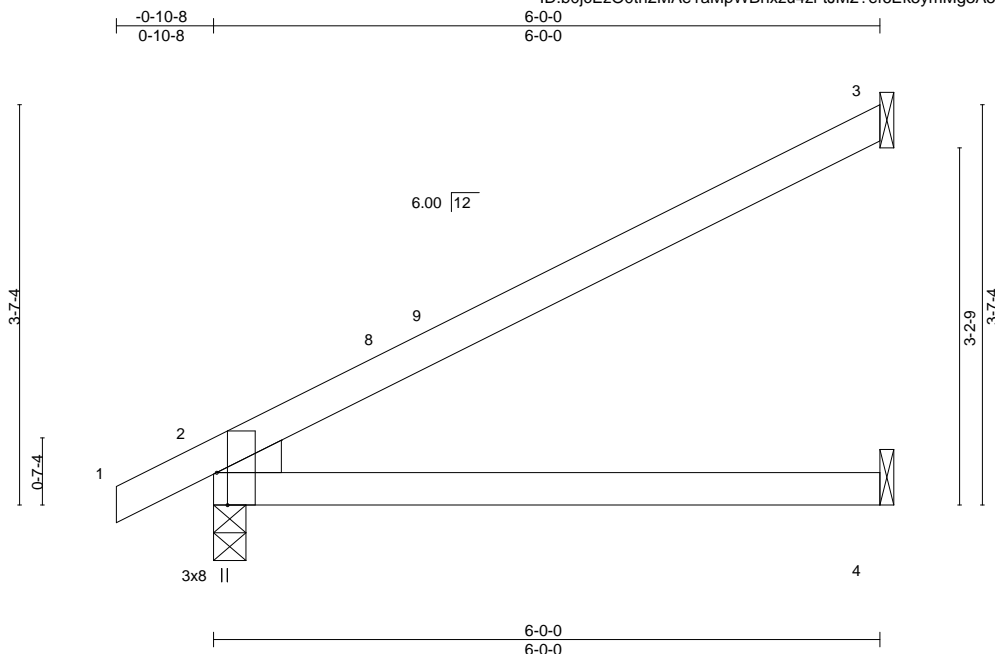
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	143629237
2523912	M3	Jack-Open	16	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:40 2020 Page 1

ID:b0JcEzO0th2MAe1aMpWBnxzu4zl-tJM2?ef6EK5ymMg3A5PEZZ1lOqpTj9hPncGFXYjByn



Scale = 1:20.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL)	-0.09	4-7	>762	MT20	197/144
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.55	Vert(CT)	-0.19	4-7	>380		
TCDL 20.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.03	2	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS						
BCDL 10.0							Weight: 16 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=0-3-8, 4=Mechanical
Max Horz 2=101(LC 14)
Max Uplift 3=54(LC 14), 2=25(LC 14)
Max Grav 3=292(LC 19), 2=452(LC 19), 4=116(LC 5)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 14, 2020

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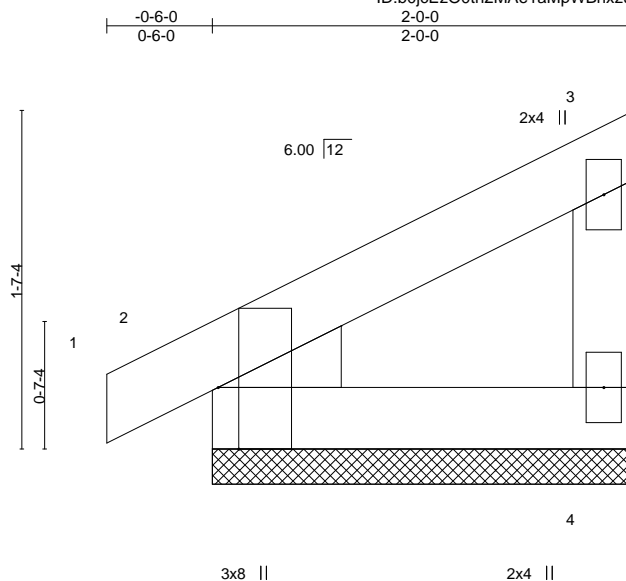
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629238
2523912	M5	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:40 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zi-tJM2?ef6Ek5ymMg3A5PEZZ1vwOyuTj9hPncGFXYjByn



Scale = 1:10.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) 0.00	1	n/r	120	MT20	197/144
(Roof Snow=20.0)	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00	1	n/r	120		
TCDL 20.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P						
BCDL 10.0							Weight: 7 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 or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=2-0-0, 2=2-0-0
Max Horz 2=42(LC 11)
Max Uplift 4=14(LC 11), 2=22(LC 14)
Max Grav 4=107(LC 19), 2=173(LC 19)

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; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCDL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629240
2523912	M7	Jack-Open	2	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:42 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-phUoQKhNmMLg?gqSHWRie_6D_CcLxdf_s55NJQyJByl

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Scale = 1:15.7

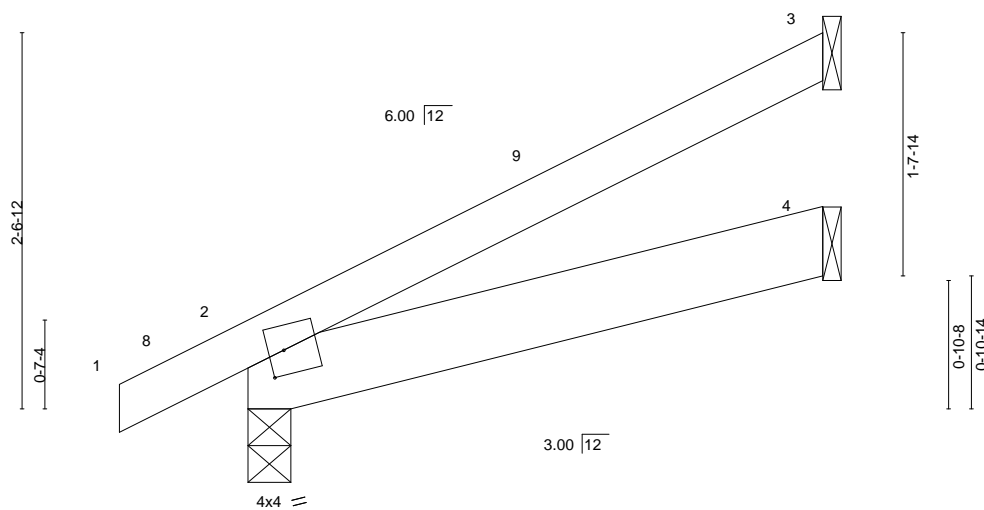


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.23		Vert(LL)	-0.01 4-7	>999	240	MT20	197/144
(Roof Snow=20.0)	Lumber DOL	1.15	BC 0.16		Vert(CT)	-0.01 4-7	>999	180		
TCDL 20.0	Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=72(LC 14)
Max Uplift 3=31(LC 14), 2=-26(LC 14)
Max Grav 3=159(LC 19), 2=365(LC 19), 4=89(LC 5)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629241
2523912	M8	Jack-Open	2	1	Job Reference (optional)	

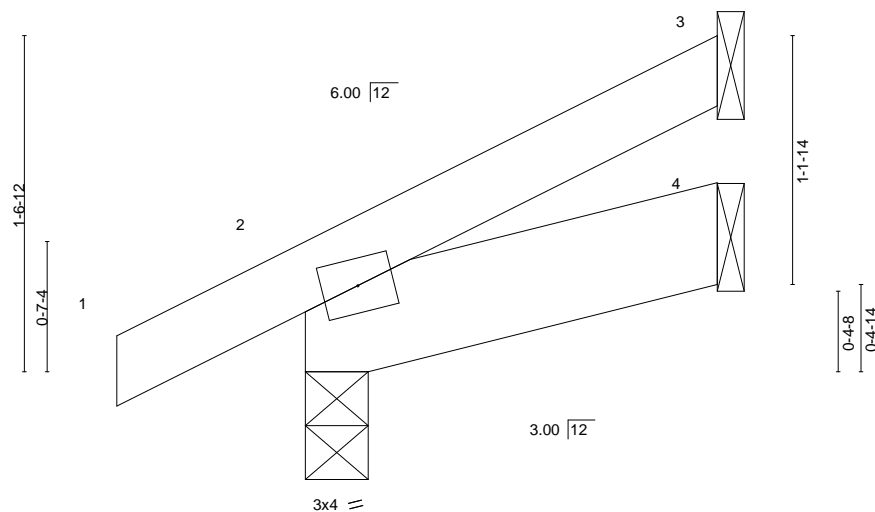
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:43 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-lu2Begi?XfTXdpPerDzxBBfQ8c_ig4v85lrwsyJByk

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

Scale = 1:10.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.08	Vert(LL)	-0.00	7	>999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	-0.00	7	>999		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=45(LC 14)
Max Uplift 3=-13(LC 14), 2=-29(LC 14)
Max Grav 3=64(LC 19), 2=232(LC 19), 4=41(LC 5)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 2 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) 3, 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.



November 14, 2020

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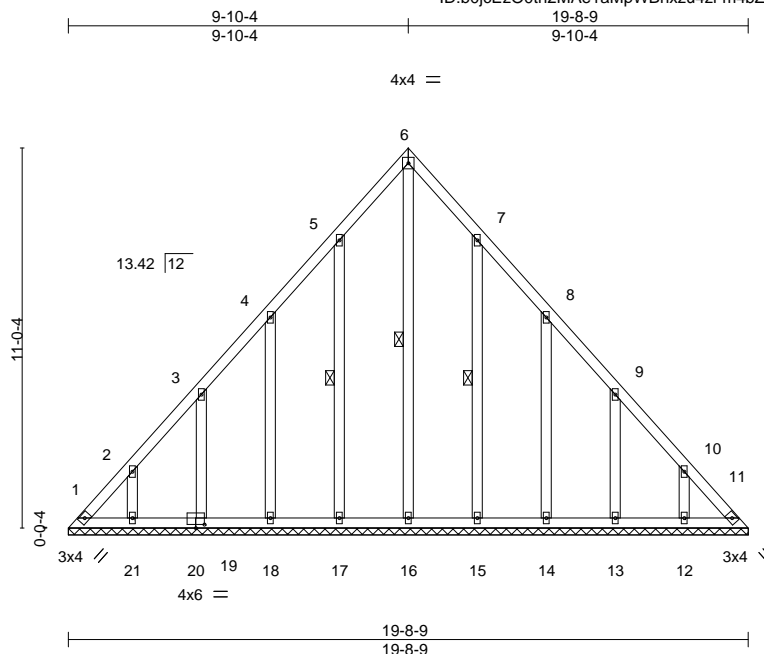


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss T1	Truss Type GABLE	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629242
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:44 2020 Page 1
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-m4bZr0jdlzbOFz_rPxUAjPCbx?KkPV?HKPaTOJyJBjy



Scale = 1:66.8

Plate Offsets (X,Y)-- [19:0-1-12,0-0-0], [20:0-3-0,0-1-4], [20:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 111 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16, 5-17, 7-15

REACTIONS.

All bearings 19-8-9.
(lb) - Max Horz 1=272(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11, 17, 18, 19, 21, 15, 14, 13, 12 except 1=125(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 21, 15, 14, 13, 12

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

TOP CHORD 1-2=-256/251, 10-11=-256/231

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-4, Exterior(2R) 9-10-4 to 12-10-4, Interior(1) 12-10-4 to 19-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) 11, 17, 18, 19, 21, 15, 14, 13, 12 except (jt=lb) 1=125.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629243
2523912	T2	GABLE	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:45 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-EG9x2LjF3HkFs7Z1ze?PGcknwPg88zUQZ3K1wlyJBjy

Job Reference (optional)

6-0-1 25-8-7 31-8-9
6-0-1 19-8-6 6-0-1

Scale = 1:54.1

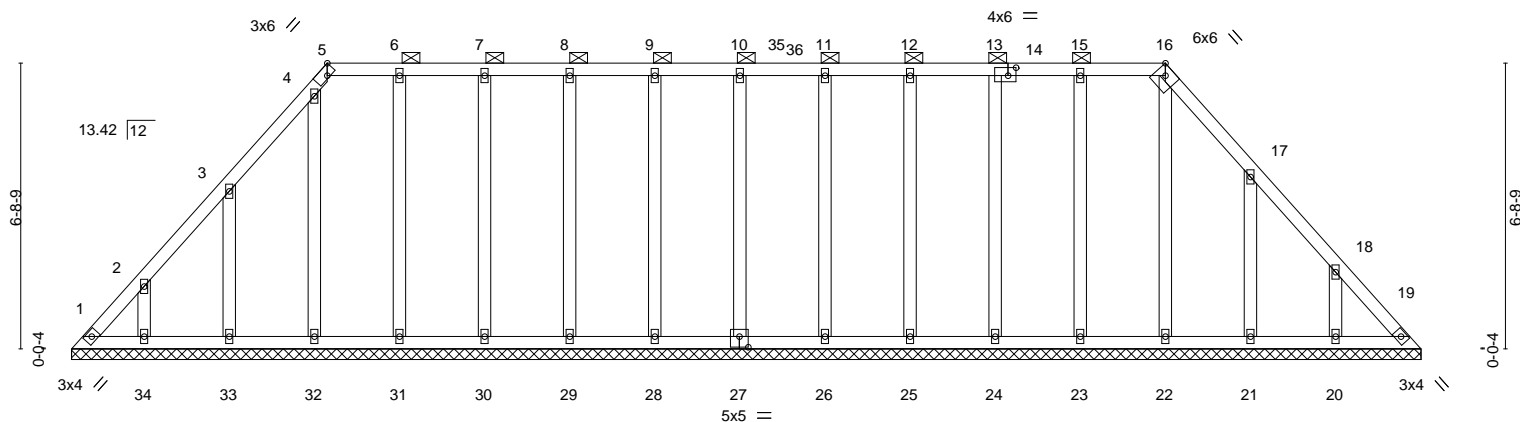


Plate Offsets (X,Y)-- [5:0-2-10,Edge], [13:0-1-12,0-0-0], [14:0-2-4,0-2-4], [14:0-0-0,0-1-12], [16:0-2-10,Edge], [27:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	19	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 167 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-8-9.
(lb) - Max Horz 1=-163(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 1, 19, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 21, 20

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-0-1, Exterior(2R) 6-0-1 to 10-3-0, Interior(1) 10-3-0 to 25-8-7, Exterior(2R) 25-8-7 to 29-8-7, Interior(1) 29-8-7 to 31-4-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- 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, 19, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 21, 20.
- This truss 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.



November 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629244
2523912	T3	GABLE	1	1	Job Reference (optional)	

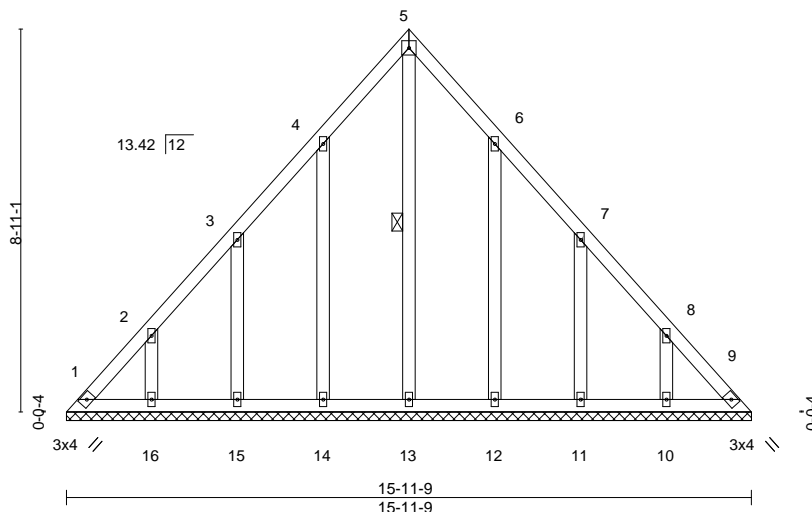
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:47 2020 Page 1
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-AfHhT1IVbu_z6RjQ431tL1p6GDLWcscj0Np8_dyJByg

7-11-12 7-11-12 15-11-9 7-11-12

4x4 =

Scale = 1:53.7



LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0		TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Plate Grip DOL 1.15		BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.15		WB 0.15	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-S					Weight: 80 lb	FT = 20%
	Code IRC2018/TPI2014								

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 15-11-9.
(lb) - Max Horz 1=218(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-11-12, Exterior(2R) 7-11-12 to 10-11-12, Interior(1) 10-11-12 to 15-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, 9, 14, 15, 16, 12, 11, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V1	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629245
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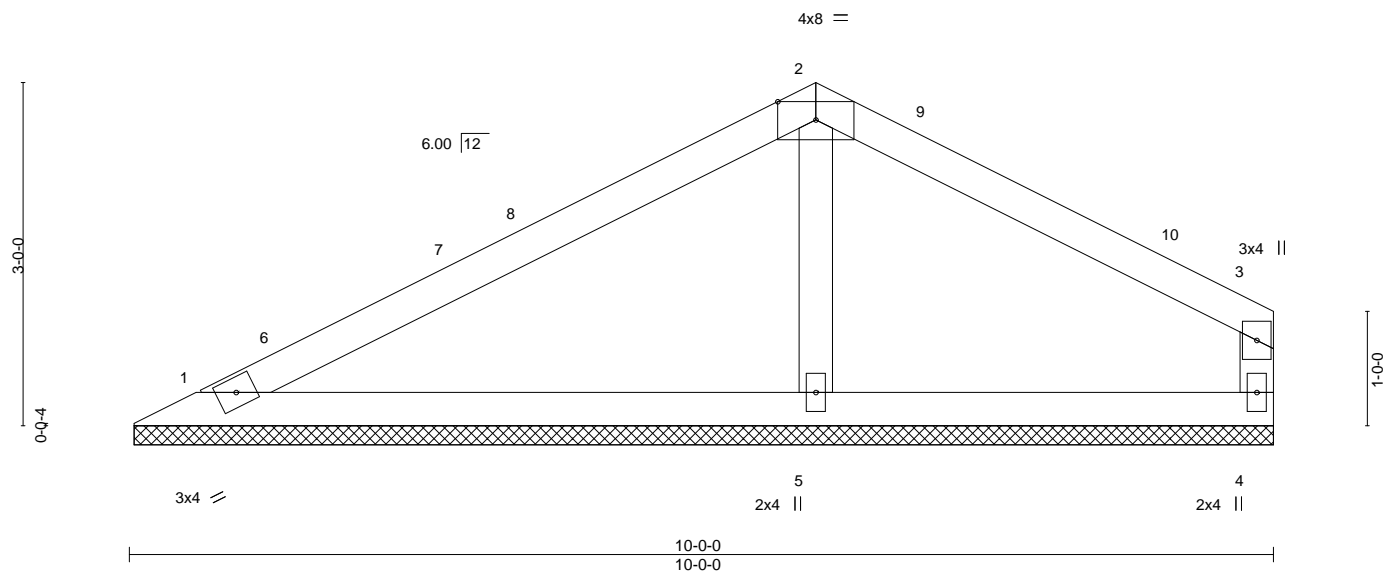
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:48 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-err4hNm8MC6qkbHcemY6tFM9PdeaLK4tF1YhX4yJByf



Scale = 1:20.1



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	2-0-0	TC 0.62	Vert(LL) n/a	-	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15		BC 0.23	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES		WB 0.07	Horz(CT) 0.00	4	-	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 27 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) 1=9-11-8, 4=9-11-8, 5=9-11-8
Max Horz 1=63(LC 13)
Max Uplift 1=34(LC 14), 4=34(LC 14)
Max Grav 1=296(LC 18), 4=282(LC 19), 5=554(LC 18)

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

TOP CHORD 3-4=-261/123
WEBS 2-5=-409/164

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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.



November 14, 2020

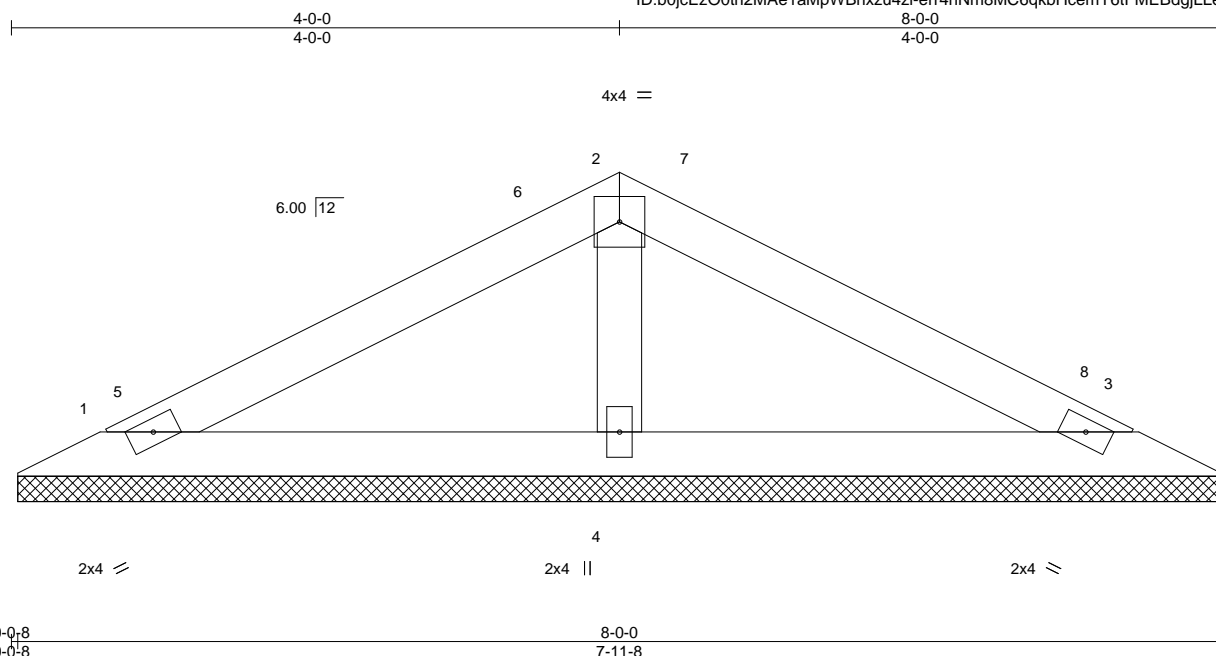
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V2	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside	I43629246
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:48 2020 Page 1
Job Reference (optional)						ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-err4hNm8MC6qkbHcemY6tFMEBdgjLLetF1YhX4yJByf



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	MT20		197/144	
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a				
TCDL	20.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0										
								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=7-11-0, 3=7-11-0, 4=7-11-0
Max Horz 1=32(LC 12)
Max Uplift 1=23(LC 14), 3=23(LC 14), 4=4(LC 14)
Max Grav 1=219(LC 18), 3=219(LC 19), 4=328(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.



November 14, 2020

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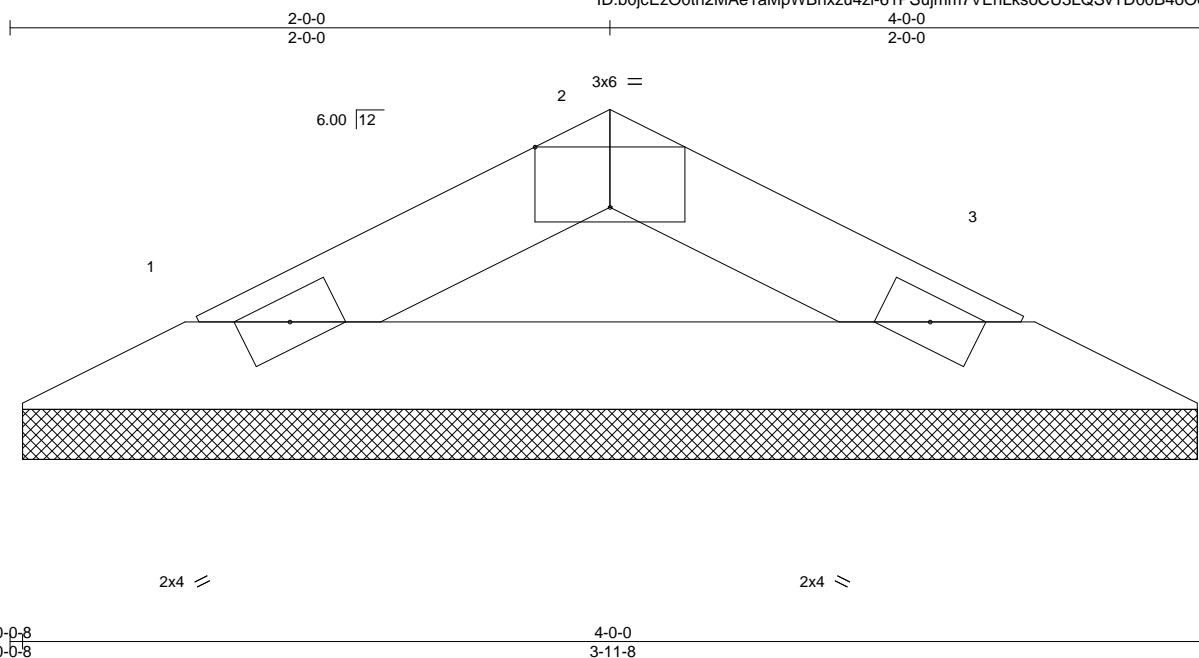
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V3	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629247
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:49 2020 Page 1

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Scale = 1:7.7

Plate Offsets (X,Y)-- [2:0-3:0,Edge]		0-0-8 0-0-8		4-0-0 3-11-8	
LOADING (psf)	SPACING-		CSI.	DEFL.	
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.04	in (loc) l/defl L/d	PLATES GRIP
(Roof Snow=20.0)	Lumber DOL 1.15		BC 0.08	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 20.0	Rep Stress Incr YES		WB 0.00	Vert(CT) n/a - n/a 999	
BCLL 0.0	Code IRC2018/TPI2014		Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 8 lb FT = 20%
BCDL 10.0					

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=3-11-0, 3=3-11-0
Max Horz 1=-13(LC 12)
Max Uplift 1=-10(LC 14), 3=-10(LC 14)
Max Grav 1=145(LC 18), 3=145(LC 19)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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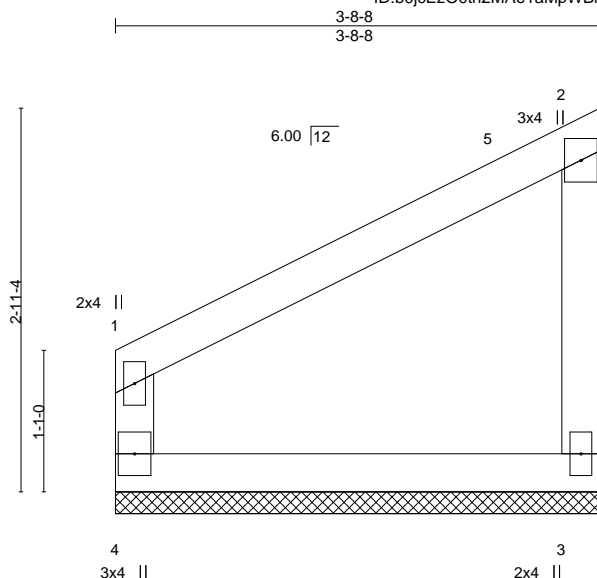
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V4	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629248
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:50 2020 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-aEzq63nOtpMYzuR_IBbazzRb1QMspFeAiL1obyJJByd



Scale = 1:17.6

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	2-0-0	TC 0.23	Vert(LL) n/a	-	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15		BC 0.12	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	3	-	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 12 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 3-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=3-8-8, 3=3-8-8
Max Horz 4=87(LC 13)
Max Uplift 4=8(LC 14), 3=-33(LC 11)
Max Grav 4=218(LC 18), 3=218(LC 18)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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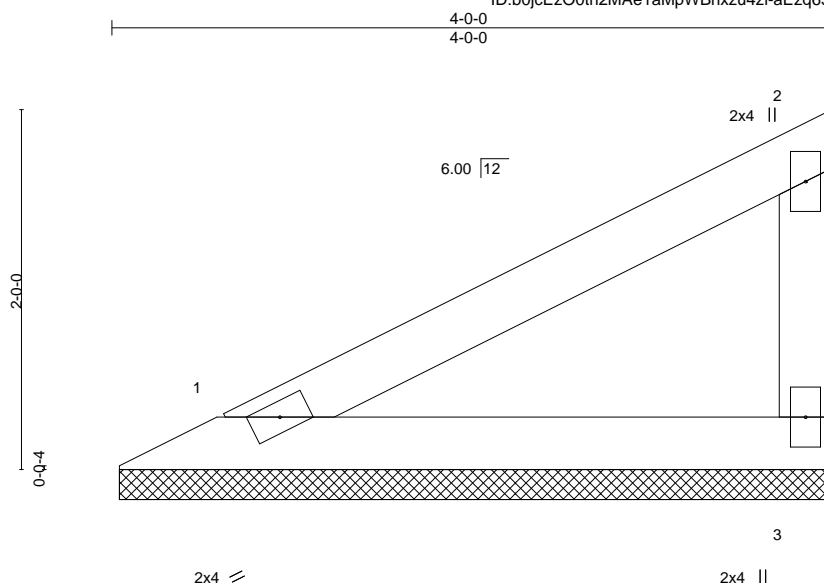
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V5	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629249
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:50 2020 Page 1

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Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.10	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: 10 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-11-8, 3=3-11-8
Max Horz 1=56(LC 13)
Max Uplift 1=-10(LC 14), 3=-14(LC 11)
Max Grav 1=205(LC 18), 3=205(LC 18)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 14, 2020

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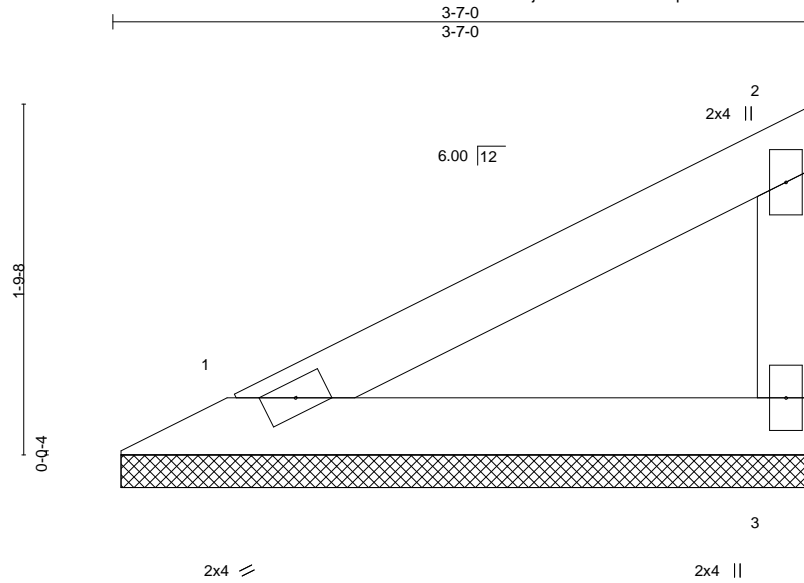


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523912	Truss V6	Truss Type Valley	Qty 1	Ply 1	Summit/11 Woodside Job Reference (optional)	I43629250
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:51 2020 Page 1
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-3QXCJPo0e7UPb20BJv6pVt_m6qinYitJx?nL8PyJByc



Scale = 1:11.8

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	2-0-0	TC 0.21	Vert(LL) n/a	-	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL 1.15		BC 0.07	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	3		n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 9 lb	FT = 20%

LUMBER-

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 3-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-6-8, 3=3-6-8
Max Horz 1=49(LC 11)
Max Uplift 1=8(LC 14), 3=-12(LC 11)
Max Grav 1=176(LC 18), 3=176(LC 18)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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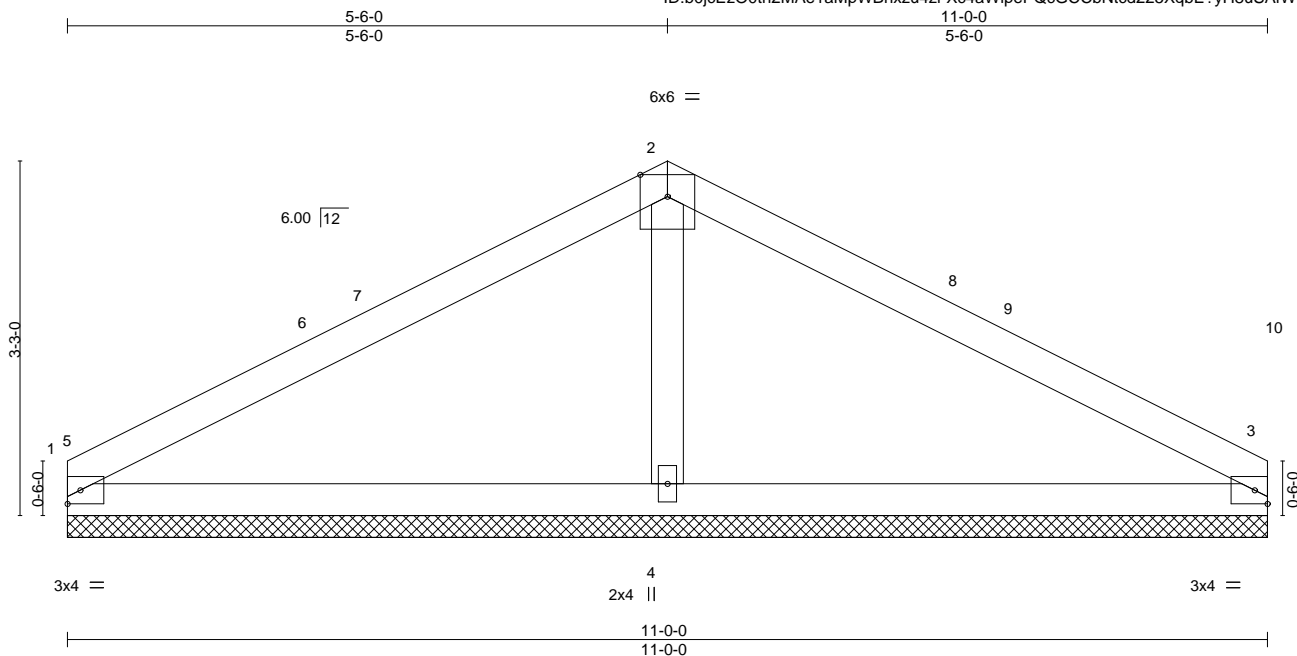
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629251
2523912	V7	Valley	1	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:52 2020 Page 1

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Scale = 1:21.1

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.67	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)			BC 0.27	Vert(CT)	n/a	-	n/a	999		
TCDL 20.0	Lumber DOL 1.15		WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES		Matrix-S							
BCDL 10.0	Code IRC2018/TPI2014								Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=11-0-0, 3=11-0-0, 4=11-0-0
Max Horz 1=-56(LC 12)
Max Uplift 1=-29(LC 14), 3=-29(LC 14), 4=-23(LC 14)
Max Grav 1=335(LC 18), 3=335(LC 19), 4=604(LC 18)

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

WEBS 2-4=-431/178

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.



November 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

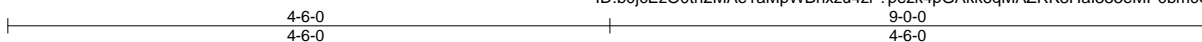
Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629252
2523912	V8	Valley	1	1		

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

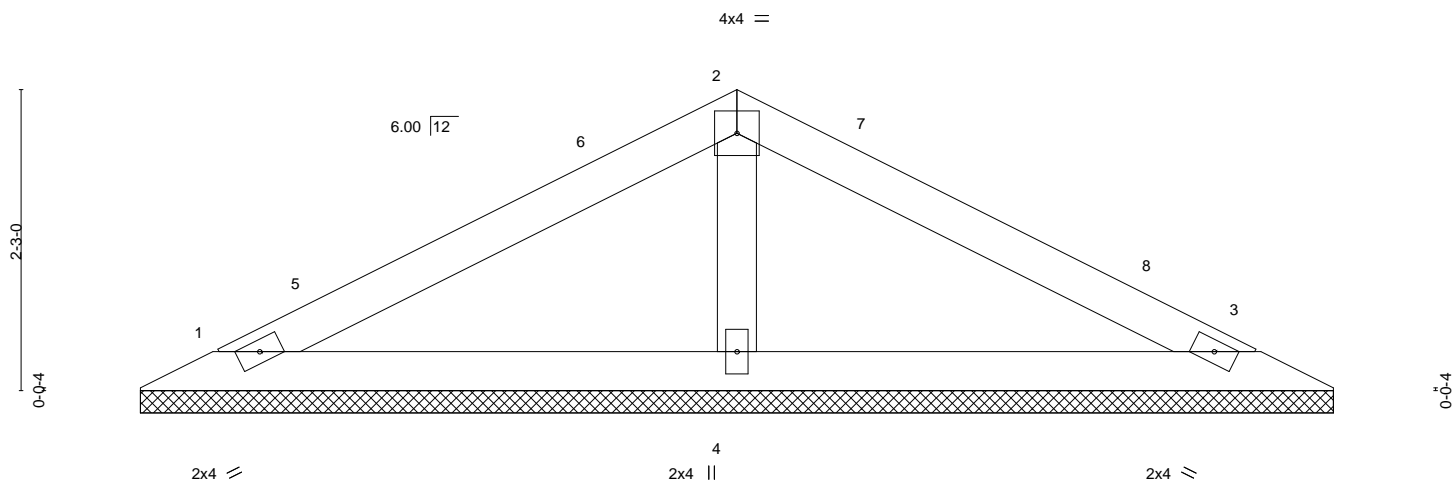
8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:53 2020 Page 1

ID:b0jcEz00th2MAe1aMpWBnxzu4Zl-?pezk4pGAKk6qMAZRK8Hal333eMP0bmcOJGSCHyJBya

Job Reference (optional)



Scale = 1:17.2



0-0-8 0-0-8		9-0-0 8-11-8					
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	
TCLL 20.0		Plate Grip DOL	1.15	TC 0.44		in (loc)	l/defl L/d
(Roof Snow=20.0)		Lumber DOL	1.15	BC 0.13		Vert(LL) n/a - n/a	999
TCDL 20.0		Rep Stress Incr	YES	WB 0.04		Vert(CT) n/a - n/a	999
BCLL 0.0		Code IRC2018/TPI2014		Matrix-P		Horz(CT) 0.00 3 n/a	n/a
BCDL 10.0							
						PLATES	GRIP
						MT20	197/144
						Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-11-0, 3=8-11-0, 4=8-11-0
Max Horz 1=-37(LC 12)
Max Uplift 1=-26(LC 14), 3=-26(LC 14), 4=-4(LC 14)
Max Grav 1=256(LC 18), 3=256(LC 19), 4=380(LC 18)

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

WEBS 2-4=-283/143

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-6-0, Exterior(2R) 4-6-0 to 7-6-0, Interior(1) 7-6-0 to 8-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/11 Woodside	I43629253
2523912	V9	Valley	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Sat Nov 14 17:35:54 2020 Page 1
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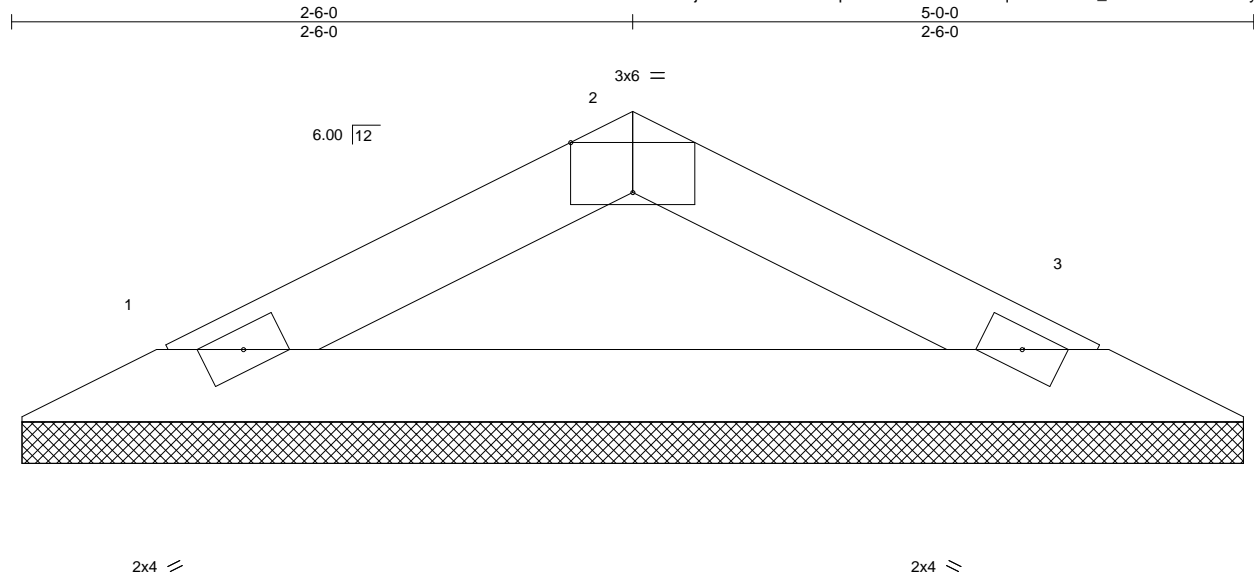


Plate Offsets (X,Y)--		[2:0-3:0,Edge]	
LOADING (psf)		SPACING-	
TCLL	20.0	Plate Grip DOL	1.15
(Roof Snow=20.0)		Lumber DOL	1.15
TCDL	20.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
CSI.		DEFL.	
TC	0.08	in (loc)	l/defl
BC	0.15	Vert(LL)	n/a
WB	0.00	Vert(CT)	n/a
Matrix-P		Horz(CT)	0.00
		PLATES	
		GRIP	
		MT20	
		197/144	
		Weight: 10 lb	
		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-11-0, 3=4-11-0
Max Horz 1=-18(LC 12)
Max Uplift 1=-14(LC 14), 3=-14(LC 14)
Max Grav 1=203(LC 18), 3=203(LC 19)

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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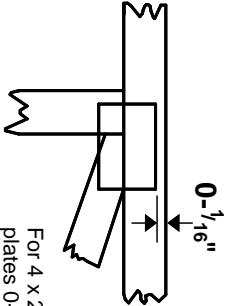
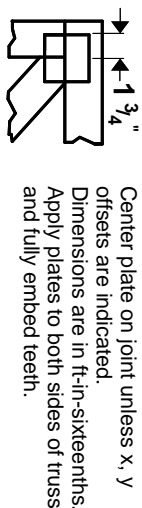
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

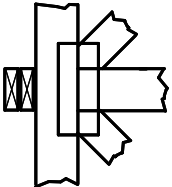
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

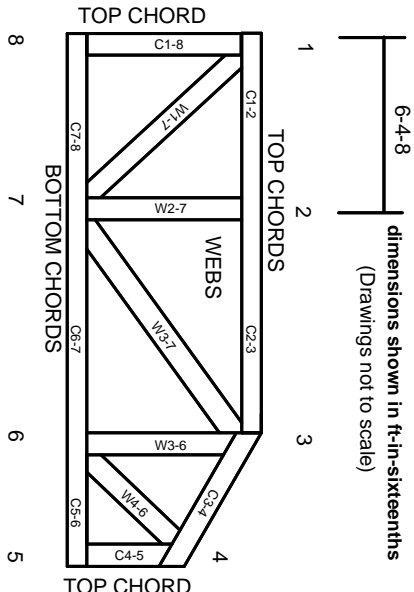


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.