



MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 2546929

Summit/13 Woodside

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/15/2020

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: I43821870 thru I43821931

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

Missouri COA: Engineering 001193



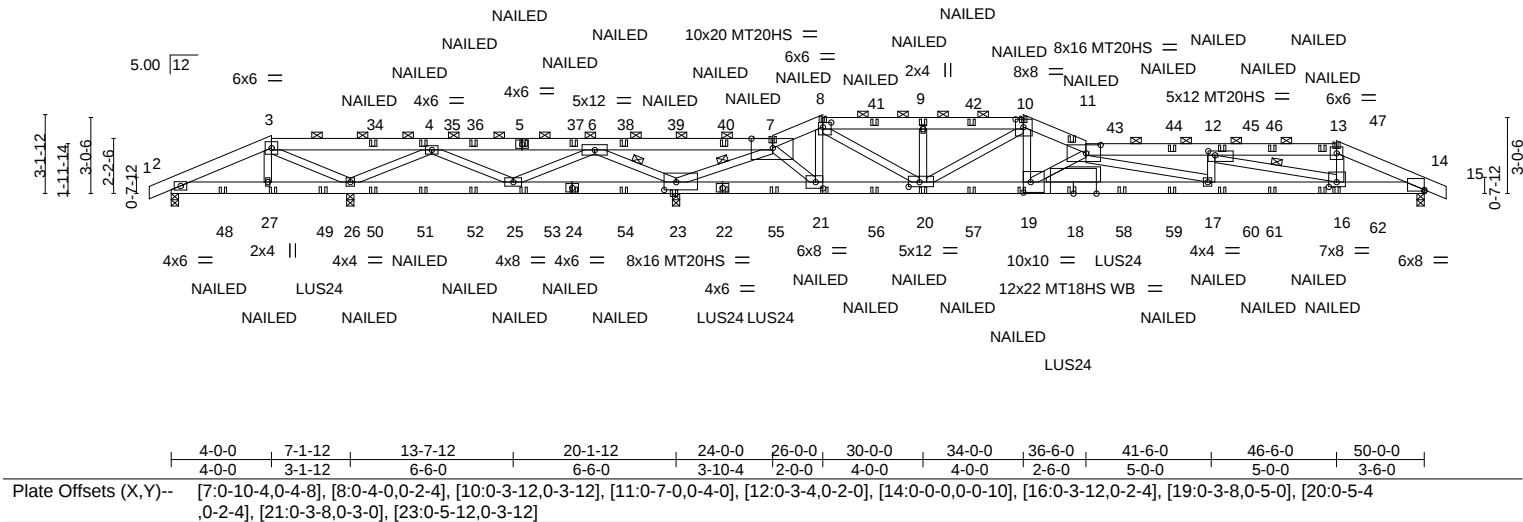
December 2, 2020

Sevier, Scott ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	A1	Roof Special Girder	1	1	I43821870
Job Reference (optional)					

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:43 2020 Page 1
ID:ggMHuYjvKTSNSqRk_pqYByzXhju-gD4HPKMbXU?M273EvuMdHmQKw2PBILS_?A8Y8_yDGMM
0-10-8 4-0-0 10-4-12 16-10-12 24-0-0 26-0-0 30-0-0 34-0-0 36-6-0 41-6-0 46-6-0 50-0-0 50-10-8
0-10-8 4-0-0 6-4-12 6-6-0 7-1-4 2-0-0 4-0-0 4-0-0 2-6-0 5-0-0 5-0-0 3-6-0 0-10-8
Scale = 1:91.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.45 17-19	>794	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-1.00 17-19	>358	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.08 14	n/a	n/a	MT18HS	244/190
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 270 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 3-5,11-13,5-7: 2x6 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except 2-0-0 oc purlins (2-9-12 max.): 3-7, 8-10, 11-13.
BOT CHORD 2x6 SPF No.2 *Except* 14-18,18-22: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,21-23 3-0-8 oc bracing: 23-25.
WEBS 2x4 SPF No.2 *Except* 7-23: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-23, 12-16, 6-23
OTHERS 2x8 SP No.2	

REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-8-12 (input: 0-3-8).
(lb) - Max Horz 2=-26(LC 30)
Max Uplift All uplift 100 lb or less at joint(s) 26 except 23=-584(LC 4), 14=-211(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=674(LC 1), 26=817(LC 21), 23=5592(LC 1), 14=2333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-847/26, 4-6=-313/2212, 6-7=-815/7519, 7-8=-1607/239, 8-9=-4336/564,
9-10=-4336/564, 10-11=-6677/762, 11-12=-8924/897, 12-13=-4493/449, 13-14=-5030/481
BOT CHORD 2-27=-12/763, 26-27=-14/735, 25-26=-604/33, 23-25=-4045/429, 21-23=-783/75,
20-21=-179/1507, 19-20=-640/5985, 17-19=-1055/9849, 16-17=-860/8922,
14-16=-413/4624
WEBS 3-27=0/354, 3-26=-1075/91, 7-23=-7466/878, 7-21=-309/2995, 8-21=-1579/199,
8-20=-395/3394, 9-20=-627/134, 10-20=-1979/173, 10-19=-287/3176, 11-19=-4430/479,
11-17=-972/213, 12-17=0/687, 12-16=-4622/475, 13-16=-73/1429, 4-26=-195/689,
4-25=-1854/363, 6-25=-86/2084, 6-23=-4061/530

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 23=584, 14=211.

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.
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/13 Woodside
2546929	A1	Roof Special Girder	1	1	I43821870
Job Reference (optional)					

- NOTES-**
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 16-0-0 oc max. starting at 6-0-12 from the left end to 37-11-4 to connect truss(es) to back face of bottom chord.
 - 12) Fill all nail holes where hanger is in contact with lumber.
 - 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-7=-90, 7-8=-90, 8-10=-90, 10-11=-90, 11-13=-90, 13-15=-90, 28-31=-20

Concentrated Loads (lb)

Vert: 5=-60(B) 8=-90(B) 10=-90(B) 13=-0(B) 24=-27(B) 27=-207(B) 21=-111(B) 9=-90(B) 20=-111(B) 19=-111(B) 16=-126(B) 18=-214(B) 22=-259(B) 34=-60(B) 35=-60(B) 36=-60(B) 37=-60(B) 38=-60(B) 39=-107(B) 41=-90(B) 42=-90(B) 44=-45(B) 45=-57(B) 46=-57(B) 47=-57(B) 48=-135(B) 49=-215(B) 50=-27(B) 51=-27(B) 52=-27(B) 53=-27(B) 54=-27(B) 55=-214(B) 56=-111(B) 57=-111(B) 58=-266(B) 59=-61(B) 60=-41(B) 61=-41(B) 62=-41(B)

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821871
2546929	A2	Roof Special	1	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:01 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-9hA5AUauH0GoDuSiyggr0ZARhJbJWVMd8zVvnxvDGM4

0-10-8	6-0-0	10-4-5	16-9-7	20-1-12	26-0-0	28-0-0	32-0-0	34-8-6	39-8-6	44-8-6	50-0-0	50-10-8
0-10-8	6-0-0	4-4-5	6-5-2	3-4-5	5-10-4	2-0-0	4-0-0	2-8-6	5-0-0	5-0-0	5-3-10	0-10-8

Scale = 1:91.8

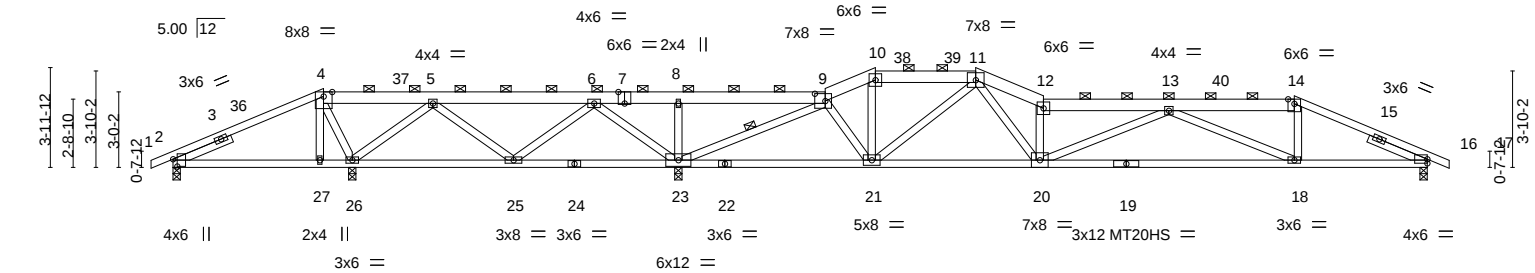


Plate Offsets (X,Y)--	6-0-0	7-1-12	13-6-14	20-1-12	26-0-0	28-0-0	32-0-0	34-8-6	44-8-6	50-0-0
	6-0-0	1-1-12	6-5-2	6-6-14	5-10-4	2-0-0	4-0-0	2-8-6	10-0-0	5-3-10

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.29	18-20	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.74	18-20	>487	180	MT20HS
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.07	16	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4,14-17: 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
22-24: 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-9-4 max.): 4-9, 10-11, 12-14.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-23

REACTIONS.

All bearings 0-3-8 except (jt=length) 23=0-5-5 (input: 0-3-8).
(lb) - Max Horz 2=33(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16 except 26=-140(LC 26)
Max Grav All reactions 250 lb or less at joint(s) except 2=586(LC 1), 26=474(LC 25),
16=1425(LC 1), 23=3394(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-519/132, 4-5=-321/128, 5-6=-19/874, 6-8=-190/3152, 8-9=-189/3153,
9-10=-944/139, 10-11=-844/142, 11-12=-3437/294, 12-13=-3251/261, 13-14=-2251/198,
14-16=-2528/187
BOT CHORD 2-27=-66/475, 26-27=-66/468, 25-26=-164/286, 23-25=-1733/135, 21-23=-18/337,
20-21=-101/1840, 18-20=-259/3408, 16-18=-112/2283
WEBS 4-26=-437/58, 9-23=-3712/319, 9-21=-11/1157, 11-21=-1330/104, 11-20=-118/2236,
12-20=-1555/175, 13-18=-1281/168, 14-18=0/679, 8-23=-514/85, 5-26=-54/549,
5-25=-1059/166, 6-25=-44/1250, 6-23=-1896/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 31-0-0, Interior(1) 31-0-0 to 32-0-0, Exterior(2E) 32-0-0 to 34-8-6, Interior(1) 34-8-6 to 44-8-6, Exterior(2R) 44-8-6 to 47-8-6, Interior(1) 47-8-6 to 50-10-8 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except (jt=lb) 26=140.
- This truss 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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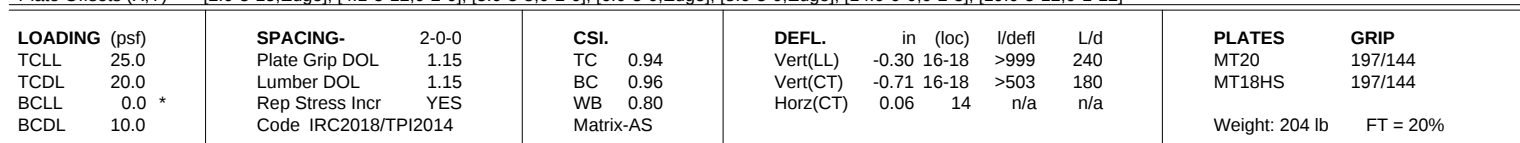


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821871
2546929	A2	Roof Special	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.

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:03 2020 Page 1
 ID:ggMhuYjvKTSNSqRK_pqYByzXhju-53HrbAb8pdVWSBb444jJ5_FkQ6Fu_ODwch_crpYDGM2
 0-10-8 8-0-0 14-0-14 21-4-0 28-0-0 32-10-13 37-10-13 42-10-13 50-0-0 50-10-8
 0-10-8 8-0-0 6-0-14 7-3-2 6-8-0 2-0-0 2-10-13 5-0-0 5-0-0 7-1-3 0-10-8
 Scale = 1:90.2



REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-5-4 (input: 0-3-8).
 (lb) - Max Horz 2=-42(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 24
 Max Grav All reactions 250 lb or less at joint(s) except 2=753(LC 25), 21=3359(LC 1), 14=1462(LC 1),
 24=253(LC 25)

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

TOP CHORD 2-4=-720/221, 4-5=-192/473, 5-7=-73/2114, 7-8=-1173/143, 8-9=-1289/175,
 9-10=-2614/237, 10-11=-2428/199, 11-12=-2238/205, 12-14=-2448/188

BOT CHORD 2-24=-133/667, 23-24=-129/677, 21-23=-472/189, 19-21=-1430/113, 18-19=-23/1301,
 16-18=-177/2800, 14-16=-97/2255

WEBS 5-23=0/552, 5-21=-2258/210, 7-21=-2157/214, 7-19=-166/2936, 8-19=-874/152,
 9-19=-579/0, 9-18=-126/2011, 10-18=-1317/162, 11-18=-510/98, 11-16=-664/100,
 12-16=0/552, 4-24=-41/261, 4-23=-905/149

NOTES:-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-10-13, Interior(1) 32-10-13 to 42-10-13, Exterior(2R) 42-10-13 to 45-10-13, Interior(1) 45-10-13 to 50-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 24.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2.2020

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821873
2546929	A4	Roof Special	1	1		
Job Reference (optional)						

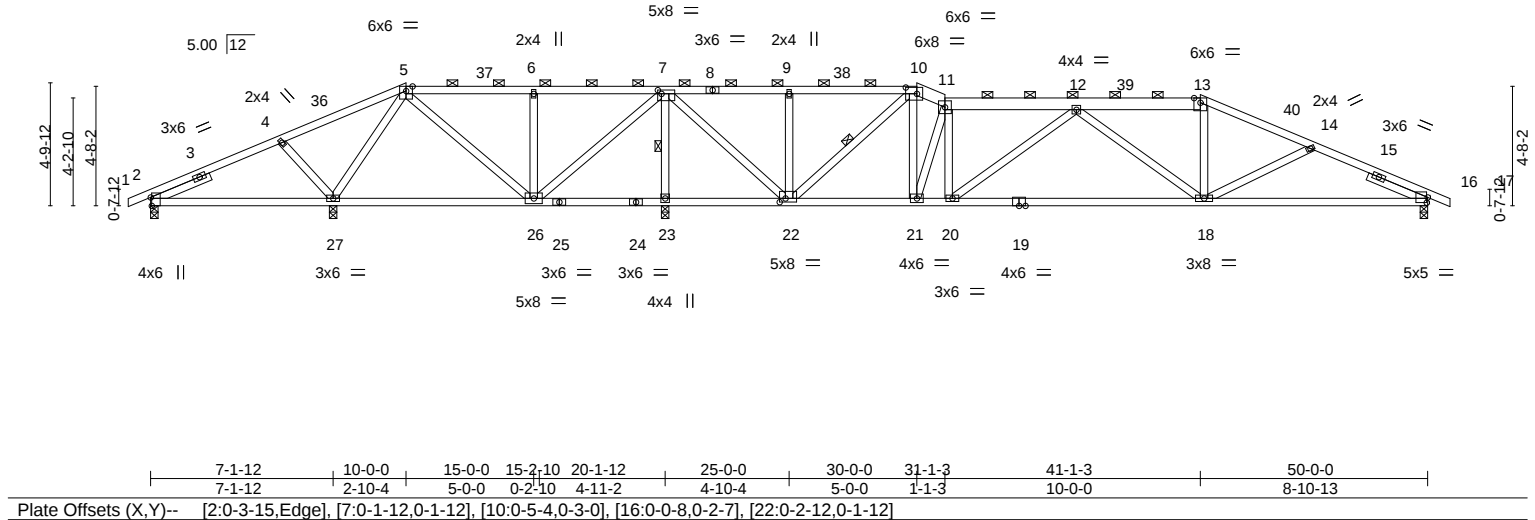
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:05 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1SPc0sdOLEmEhVITBVlnAPKBhwyCSLwD3bTiwiyDGM0

0-10-8 5-1-12 10-0-0 12-9-1 15-0-0 17-8-3 20-1-12 23-4-0 25-0-0 30-0-0 31-1-3 36-2-15 41-1-3 45-4-14 50-0-0 50-10-8
0-10-8 5-1-12 4-10-4 2-9-1 2-2-15 2-8-3 2-5-9 3-2-4 1-8-0 5-0-0 1-1-3 5-1-12 4-10-4 4-3-10 4-7-2 0-10-8

Scale = 1:90.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.21	18-20	>999	240	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.52	18-20	>684	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.05	16	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
Weight: 219 lb									FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
10-11,11-13: 2x6 SPF No.2	2-0-0 oc purlins (5-0-9 max.): 5-10, 11-13.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 7-23, 10-22
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	

REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-4-15 (input: 0-3-8).
(lb) - Max Horz 2=42(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 16, 23
Max Grav All reactions 250 lb or less at joint(s) except 2=393(LC 25), 27=831(LC 25), 16=1464(LC 26), 23=3150(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-406/108, 4-5=0/311, 5-6=0/583, 6-7=0/580, 10-11=-1378/173, 11-12=-1731/164, 12-13=-2059/189, 13-14=-2278/184, 14-16=-2533/217
BOT CHORD 23-26=-1696/186, 22-23=-1696/186, 21-22=-32/1331, 20-21=-39/1705, 18-20=-119/2254, 16-18=-141/2285
WEBS 4-27=-494/121, 5-27=-339/68, 10-21=-67/1266, 11-21=-1365/42, 11-20=0/646, 12-20=-664/104, 12-18=-255/76, 13-18=0/466, 7-23=-3038/244, 6-26=-474/100, 7-26=-87/1483, 5-26=-573/77, 9-22=-445/94, 10-22=-1644/126, 7-22=-165/2410

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 31-1-3, Interior(1) 31-1-3 to 41-1-3, Exterior(2R) 41-1-3 to 44-1-3, Interior(1) 44-1-3 to 50-10-8 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
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 16, 23.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



December 2,2020

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821874
2546929	A5	Roof Special	1	1	Job Reference (optional)	

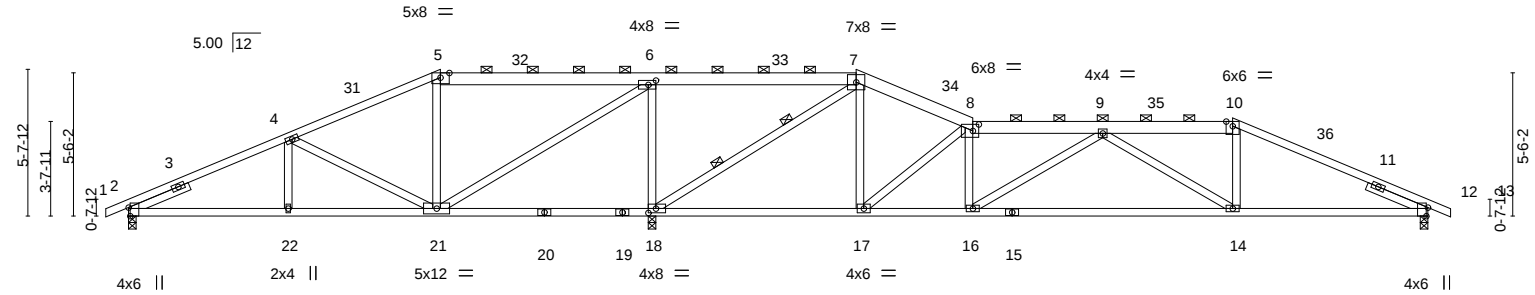
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:06 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Vez_ECe06Yu5JfKfIDG0jctGnKljBkhMIFCGS8yDGM?

0-10-8	6-1-12	12-0-0	20-0-0	20-1-12	28-0-0	32-5-14	37-5-14	42-5-14	50-0-0	50-10-8
0-10-8	6-1-12	5-10-4	8-0-0	0-1-12	7-10-4	4-5-14	5-0-0	5-0-0	7-6-2	0-10-8

Scale = 1:88.7



		6-1-12		12-0-0		20-1-12		28-0-0		32-5-14		42-5-14		50-0-0		
		6-1-12		5-10-4		8-1-12		7-10-4		4-5-14		10-0-0		7-6-2		
Plate Offsets (X,Y)-- [2:0-3-15,Edge], [5:0-4-2,Edge], [6:0-3-8,0-2-0], [8:0-2-12,0-3-0], [12:0-3-15,Edge], [18:0-3-8,0-2-0]																
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP		
TCLL	25.0	Plate Grip DOL 1.15				TC	0.86	Vert(LL)	-0.28	14-16	>999	240	MT20	197/144		
TCDL	20.0	Lumber DOL 1.15				BC	0.89	Vert(CT)	-0.65	14-16	>554	180				
BCLL	0.0 *	Rep Stress Incr YES				WB	0.88	Horz(CT)	0.05	12	n/a	n/a				
BCDL	10.0	Code IRC2018/TPI2014				Matrix-AS								Weight: 218 lb	FT = 20%	

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-5,10-13: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-0-3 max.): 5-7, 8-10.
BOT CHORD Rigid ceiling directly applied.
WEBS 2 Rows at 1/3 pts 7-18

REACTIONS.

(size) 2=0-3-8, 18=0-3-8 (req. 0-5-11), 12=0-3-8
Max Horz 2=50(LC 12)
Max Uplift 2=43(LC 12), 12=33(LC 13)
Max Grav 2=829(LC 25), 18=3618(LC 1), 12=1389(LC 26)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

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

TOP CHORD 2-4=-968/107, 4-5=-386/405, 5-6=-283/325, 6-7=0/1874, 7-8=-604/154, 8-9=-1869/212,
9-10=-2061/218, 10-12=-2238/193
BOT CHORD 2-22=-88/969, 21-22=-88/969, 18-21=-1872/155, 17-18=0/463, 16-17=-102/1888,
14-16=-166/2374, 12-14=-106/2071
WEBS 4-21=-838/99, 5-21=-599/105, 6-21=-120/2101, 6-18=-1936/220, 7-18=-2708/173,
7-17=-28/1149, 8-17=-1752/136, 8-16=0/520, 9-16=-633/95, 9-14=-379/88, 10-14=0/443

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 31-0-0, Interior(1) 31-0-0 to 42-5-14, Exterior(2R) 42-5-14 to 45-5-14, Interior(1) 45-5-14 to 50-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821875
2546929	A6	Roof Special	1	1		

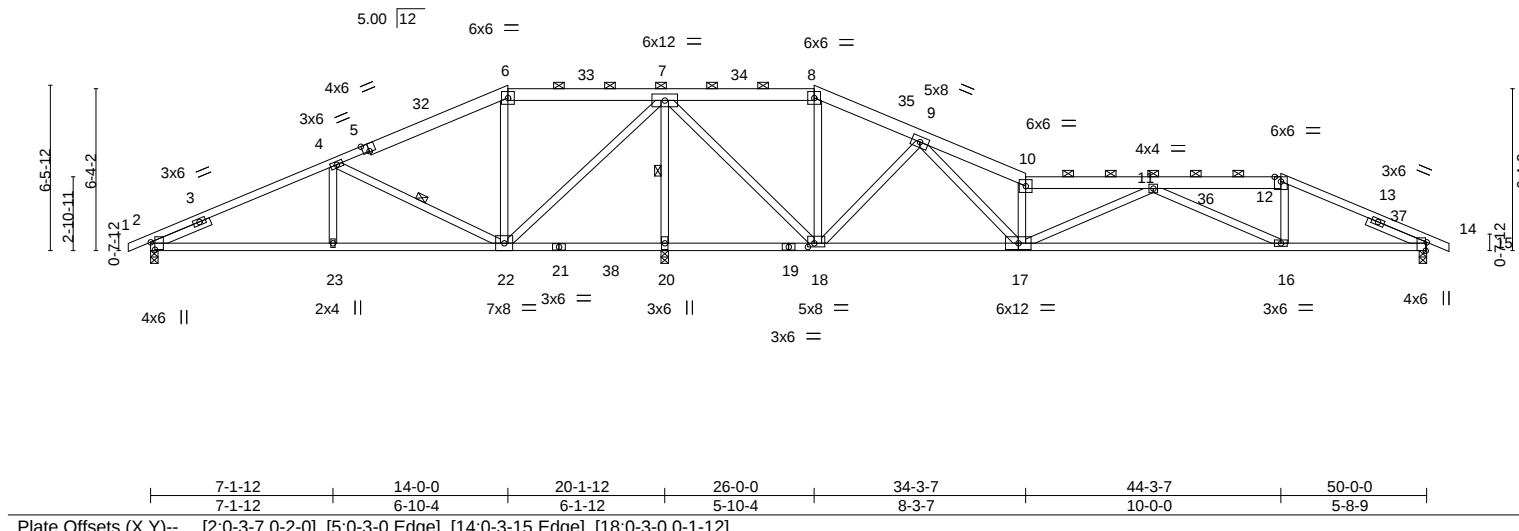
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:08 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-R15ketfHe98pYyU2seUo1yfp7z1feYfZHNW1yDGLZ

0-10-8	7-1-12	14-0-0	20-0-0	20-1-12	26-0-0	30-1-12	34-3-7	39-3-7	44-3-7	50-0-0	50-10-8
0-10-8	7-1-12	6-10-4	6-0-0	0-1-12	5-10-4	4-1-12	4-1-12	5-0-0	5-0-0	5-8-9	0-10-8

Scale = 1:90.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.32	16-17	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.70	16-17	>508	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.03	2	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 229 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
12-15,1-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-21,14-17: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-7-13 max.): 6-8, 10-12.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-22, 7-20

REACTIONS.

(size) 2=0-3-8, 20=0-3-8 (req. 0-6-3), 14=0-3-8
Max Horz 2=57(LC 13)
Max Uplift 2=58(LC 12), 14=32(LC 13)
Max Grav 2=788(LC 25), 20=3953(LC 2), 14=1311(LC 28)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

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

TOP CHORD 2-4=-879/378, 4-6=-25/977, 6-7=0/853, 7-8=0/427, 8-9=0/514, 9-10=-2353/240,
10-11=-2263/205, 11-12=-2041/189, 12-14=-2291/171
BOT CHORD 2-23=-286/811, 22-23=-286/811, 20-22=-2147/173, 18-20=-2147/173, 17-18=-32/632,
16-17=-203/2701, 14-16=-98/2067
WEBS 4-23=0/307, 4-22=-1107/107, 6-22=-776/111, 7-22=-112/2042, 7-20=-3689/290,
7-18=-134/2452, 8-18=-525/69, 9-18=-1429/157, 9-17=-111/2318, 10-17=-1244/160,
11-17=-547/109, 11-16=-798/129, 12-16=0/609

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 26-0-0, Exterior(2R) 26-0-0 to 29-0-0, Interior(1) 29-0-0 to 44-3-7, Exterior(2R) 44-3-7 to 47-3-7, Interior(1) 47-3-7 to 50-10-8 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	A7	ROOF SPECIAL	1	1	143821876
Job Reference (optional)					

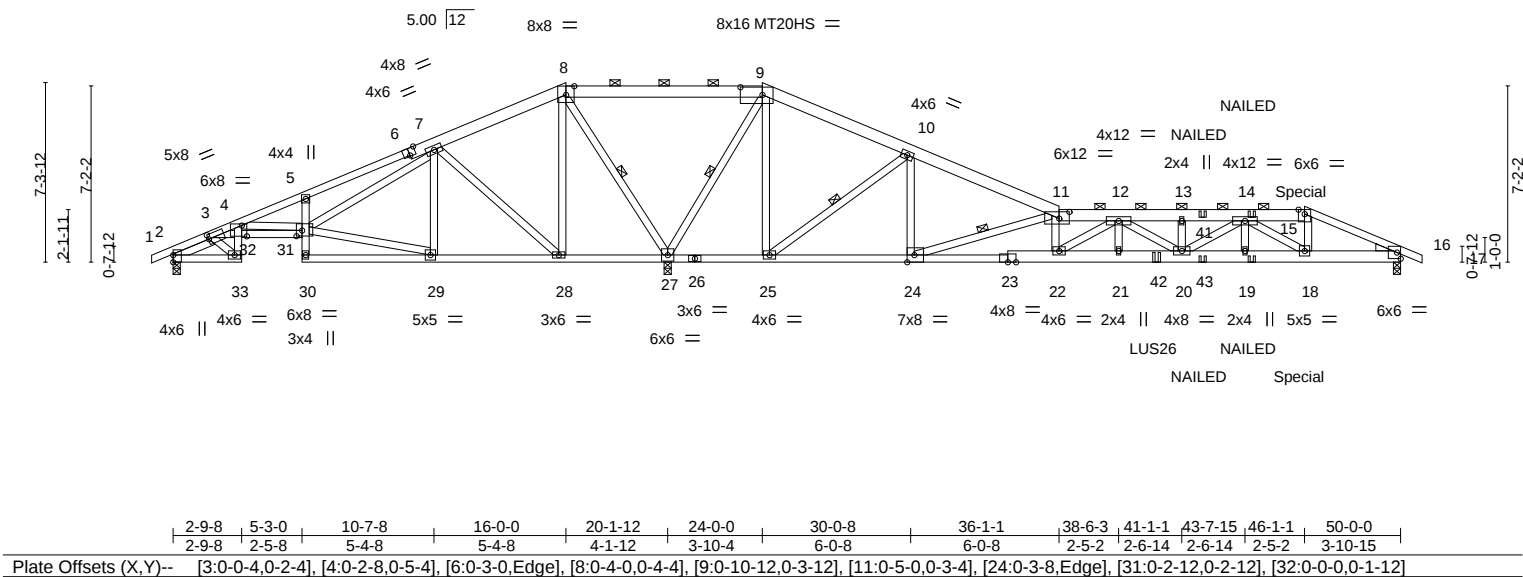
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:11 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-scmthVh9x4WNPQCdYmsBQga8QL12s_m5RXw16MyDGLw

-0-10-8 2-9-8 | 5-3-0 | 10-7-8 | 16-0-0 | 24-0-0 | 30-0-8 | 36-1-1 | 38-6-3 | 41-1-1 | 43-7-15 | 46-1-1 | 50-0-0 50-10-8
0-10-8 2-9-8 | 2-5-8 | 5-4-8 | 5-4-8 | 8-0-0 | 6-0-8 | 6-0-8 | 2-5-2 | 2-6-14 | 2-6-14 | 2-5-2 | 3-10-15 0-10-8

Scale = 1:93.9



Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	A7	ROOF SPECIAL	1	1	I43821876
Job Reference (optional)					

- NOTES-**
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 2=492, 16=186.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 40-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
 - 12) Fill all nail holes where hanger is in contact with lumber.
 - 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) 209 lb down and 121 lb up at 46-1-1 on top chord, and 187 lb down and 29 lb up at 45-11-4 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-8=-90, 8-9=-90, 9-11=-90, 11-15=-90, 15-17=-90, 33-34=-20, 31-32=-20, 30-38=-20
 - Concentrated Loads (lb)
 - Vert: 15=-91(F) 18=-187(F) 19=-48(F) 14=-76(F) 41=-76(F) 42=-655(F) 43=-48(F)

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821877
2546929	A8	HIP	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:13 2020 Page 1

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Job Reference (optional)

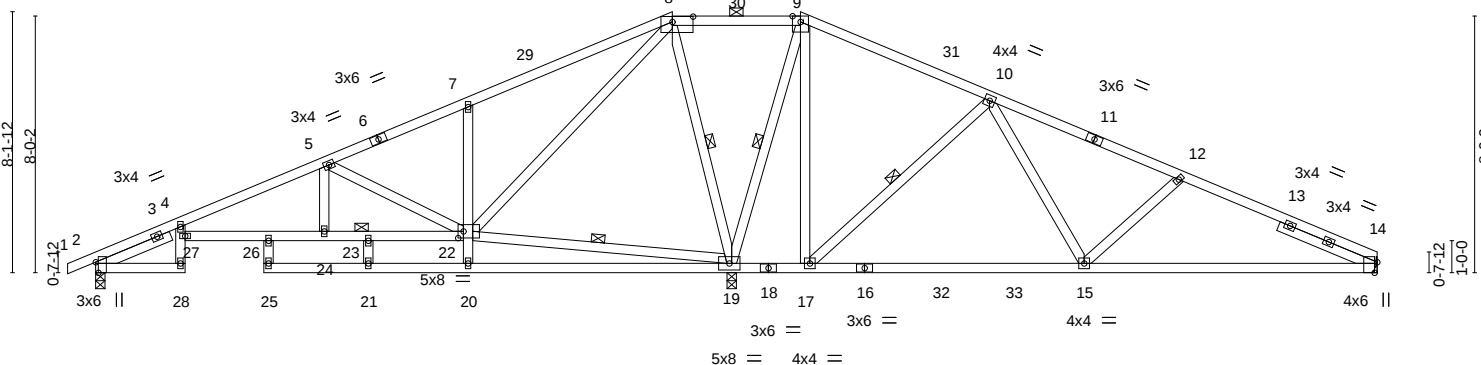
0-10-8 2-9-8 5-3-0 7-1-10 11-7-8 18-0-0 22-0-0 27-10-13 33-9-11 40-0-0
0-10-8 2-9-8 2-5-8 1-10-10 4-5-14 6-4-8 4-0-0 5-10-13 5-10-13 6-2-5

Scale = 1:71.9

6x12 MT20HS =

5.00 12

6x6 =



2-9-8 5-3-0 7-1-10 8-6-2 11-7-8 18-0-0 19-8-8 22-0-0 30-10-4 40-0-0
2-9-8 2-5-8 1-10-10 1-4-8 3-1-6 6-4-8 1-8-8 2-1-12 8-10-4 9-1-12
0-1-12

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [8:0-7-12,0-2-0], [14:0-3-15,Edge], [22:0-2-0,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.26	28	>930	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.49	28	>483	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.19	19	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 191 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-6: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 3-3-7

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 4-0-15 oc bracing.
WEBS 1 Row at midpt 19-22, 10-17, 9-19, 8-19
JOINTS 1 Brace at Jt(s): 23

REACTIONS.

(size) 2=0-3-8, 19=0-3-8 (req. 0-6-3), 14=Mechanical
Max Horz 2=124(LC 12)
Max Uplift 2=-28(LC 13), 19=-330(LC 12), 14=-159(LC 13)
Max Grav 2=433(LC 27), 19=3960(LC 2), 14=652(LC 26)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

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

TOP CHORD 5-7=-164/995, 7-8=-68/1019, 8-9=-196/2102, 9-10=-226/1764, 10-12=-469/939, 12-14=-901/713
BOT CHORD 17-19=-1593/334, 15-17=-1065/308, 14-15=-590/743
WEBS 20-22=0/264, 7-22=-505/179, 19-22=-1715/277, 9-17=-80/908, 10-17=-1090/204, 10-15=-3/851, 12-15=-602/177, 8-22=-183/1284, 5-22=-972/170, 5-24=0/275, 9-19=-1961/132, 8-19=-1699/282

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 19 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) 2 except (jt=lb) 19=330, 14=159.
- This truss 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.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821878
2546929	A9	COMMON	1	1		

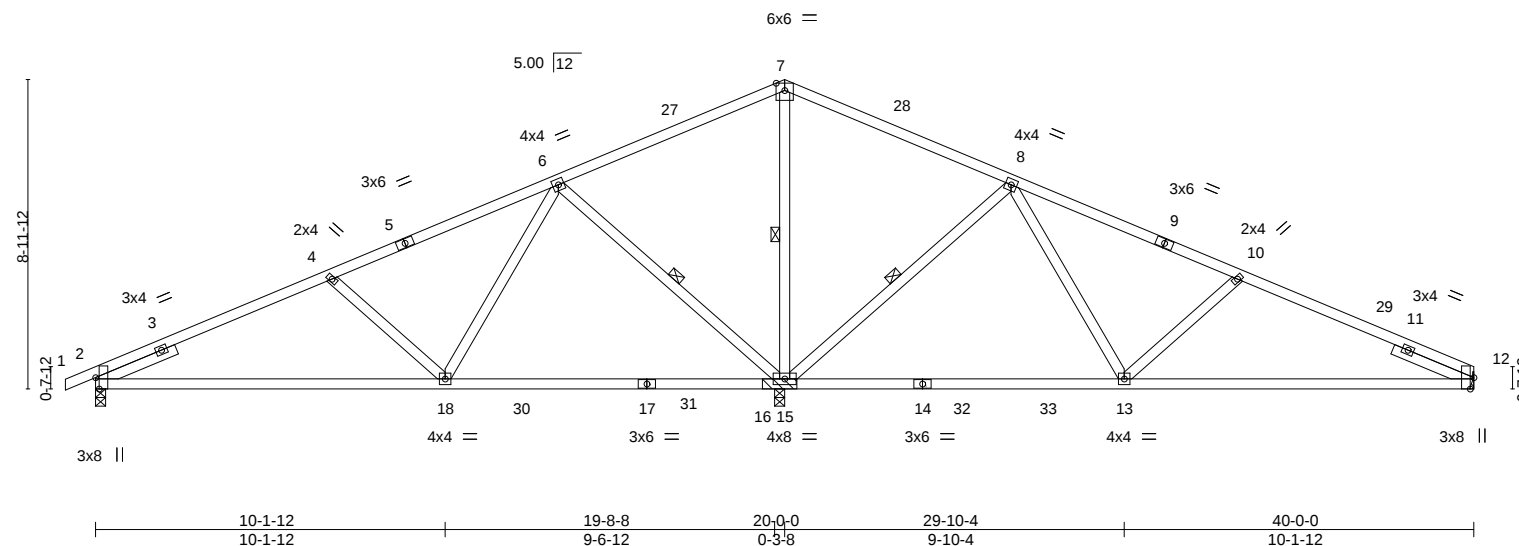
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:16 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-CZamKcllc9gWB5aKJRM7jH0rMhoXN7rbpddooZyDGLr

0-10-8	6-10-5	13-5-3	20-0-0	26-6-13	33-1-11	40-0-0
0-10-8	6-10-5	6-6-13	6-6-13	6-6-13	6-6-13	6-10-5

Scale = 1:66.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.21 15-18	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.35 13-25	>684	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.03 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 157 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 7-15, 8-15, 6-15

REACTIONS.

(size) 2=0-3-8, 15=(0-3-8 + bearing block) (req. 0-4-9), 12=Mechanical
 Max Horz 2=143(LC 12)
 Max Uplift 2=-97(LC 12), 15=-157(LC 12), 12=-101(LC 13)
 Max Grav 2=964(LC 27), 15=2911(LC 2), 12=896(LC 28)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1262/157, 4-6=-926/106, 6-7=0/781, 7-8=0/781, 8-10=-934/157, 10-12=-1287/207
 BOT CHORD 2-18=-207/1165, 15-18=-53/377, 13-15=-32/383, 12-13=-121/1177
 WEBS 7-15=-1056/92, 8-15=-1157/243, 8-13=-19/880, 10-13=-622/195, 6-15=-1155/244,
 6-18=-21/876, 4-18=-616/197

NOTES-

- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 15=157, 12=101.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821879
2546929	A10	Roof Special	5	1		

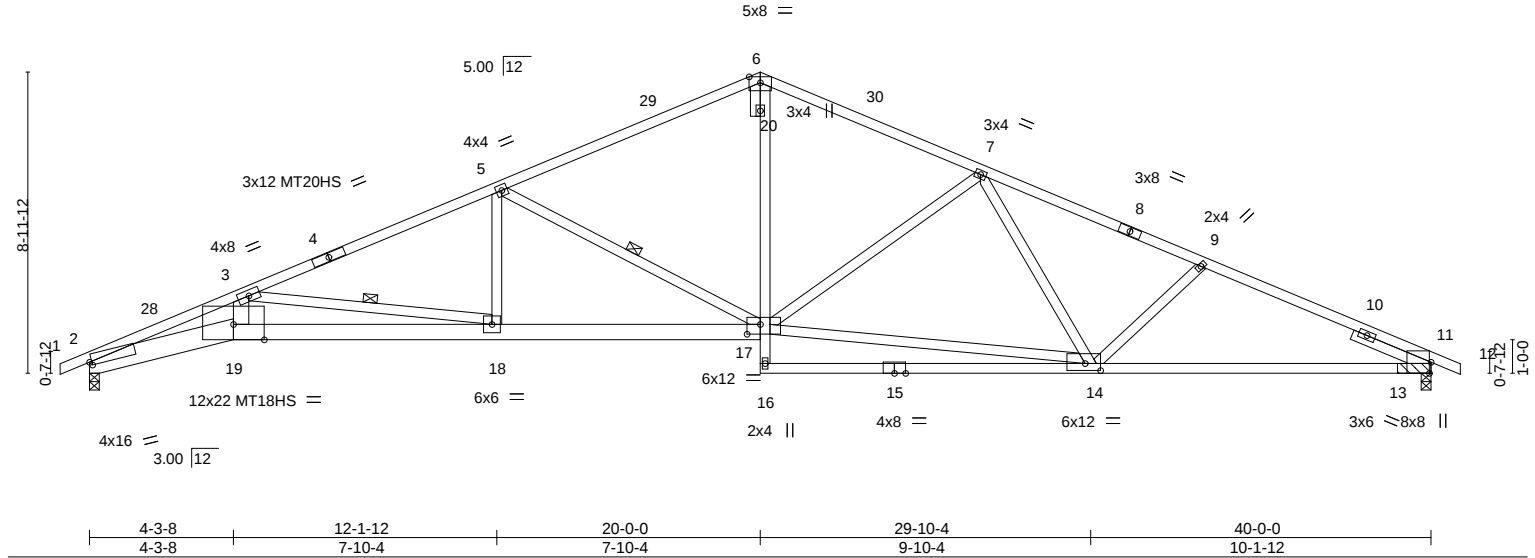
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:45 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-dcC2p0Nr25F3IQDd0JO5MBVhhs7tmCiGTUdfDsyDGMK

-0-10-8	4-3-8	12-1-12	20-0-0	26-6-13	33-1-11	40-0-0	40-10-8
0-10-8	4-3-8	7-10-4	7-10-4	6-6-13	6-6-13	6-10-5	0-10-8

Scale = 1:68.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.41 14-16	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-1.11 14-16	>434	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.37 11	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 188 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-8: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 2-19: 2x8 SP 2400F 2.0E, 17-19: 2x6 SPF 2100F 1.8E 15-16: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 6-16: 2x4 SPF 1650F 1.5E, 3-19: 2x6 SPF No.2	WEBS 1 Row at midpt 3-18, 5-17
SLIDER Right 2x4 SPF No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 11=(0-3-8 + bearing block) (req. 0-3-9)
Max Horz 2=-138(LC 17)	
Max Uplift 2=-177(LC 12), 11=-177(LC 13)	
Max Grav 2=2277(LC 1), 11=2277(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8024/649, 3-5=-4936/346, 5-6=-3318/286, 6-7=-3291/289, 7-9=-4021/290, 9-11=-4354/336	
BOT CHORD 2-19=-693/7442, 18-19=-676/7114, 17-18=-308/4482, 11-14=-227/3929	
WEBS 6-17=-65/1845, 3-19=-35/1205, 3-18=-2662/372, 5-18=0/745, 5-17=-1779/269, 14-17=-136/3595, 7-17=-876/227, 7-14=0/308, 9-14=-457/190	

- NOTES-**
- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 11 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 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
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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=177, 11=177.
 - This truss 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.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821880
2546929	A11	Roof Special	2	1		

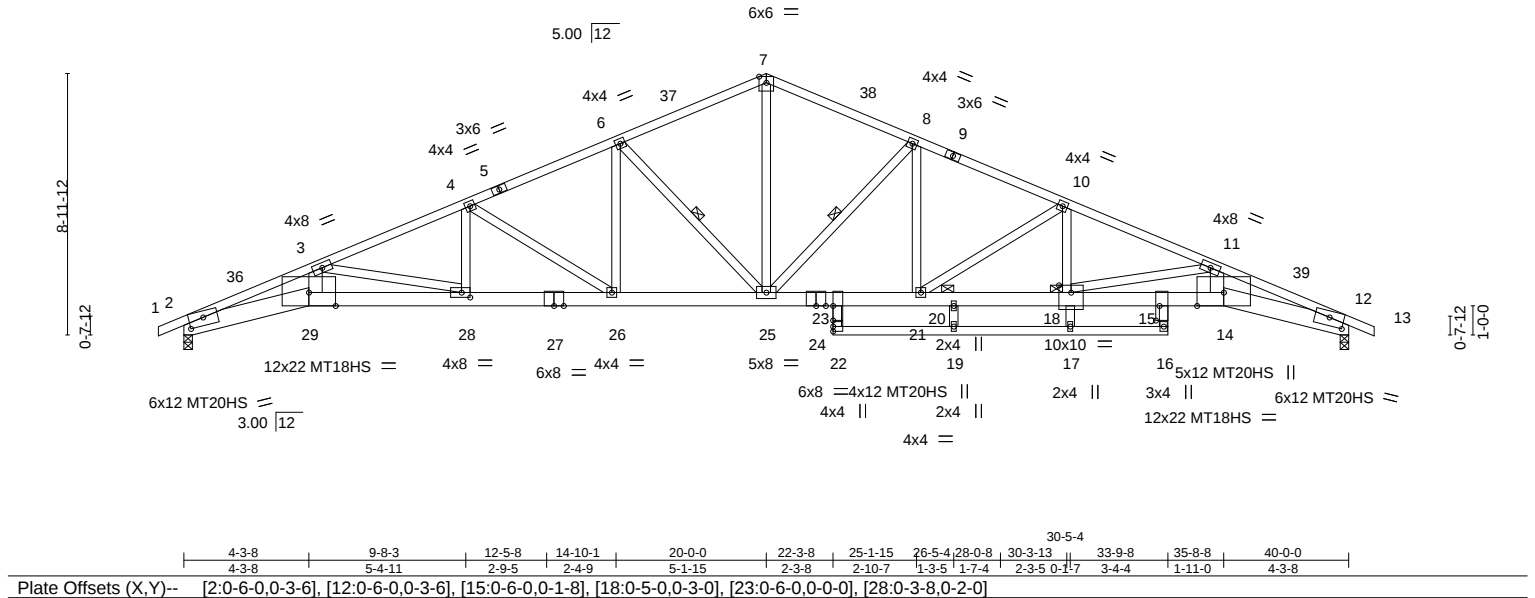
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:46 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYBzXhju-5omQ1MOUpPNwwaopa0vKvO2pkGT3VgiQh8MCIJyDGMJ

0-10-8 4-3-8 9-8-3 12-5-8 14-10-1 20-0-0 22-3-8 25-1-15 28-0-8 30-3-13 33-9-8 35-8-8 40-0-0 40-10-8
0-10-8 4-3-8 5-4-11 2-9-5 2-4-9 5-1-15 2-3-8 2-10-7 2-10-9 2-3-5 3-5-11 1-11-0 4-3-8 0-10-8

Scale = 1:79.1



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL)	-0.42 25-26	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.89	Vert(CT)	-0.92 25-26	>522	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT)	0.42 12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
2-29,12-14: 2x8 SP 2400F 2.0E, 27-29,14-24: 2x6 SPF 2100F 1.8E	WEBS 1 Row at midpt 6-25, 8-25
24-27: 2x6 SPF No.2	JOINTS 1 Brace at Jt(s): 20, 18
WEBS 2x4 SPF No.2 *Except*	
3-29,11-14: 2x6 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
	Max Horz 2=-138(LC 13)
	Max Uplift 2=-176(LC 12), 12=-176(LC 13)
	Max Grav 2=2279(LC 1), 12=2279(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7844/631, 3-4=-5474/397, 4-6=-4198/300, 6-7=-3264/285, 7-8=-3264/284, 8-10=-4112/290, 10-11=-5349/348, 11-12=-7748/507
BOT CHORD	2-29=-671/7257, 28-29=-649/6953, 26-28=-376/5006, 25-26=-205/3789, 23-25=-98/3709, 21-23=-88/3338, 20-21=-180/4506, 18-20=-180/4506, 15-18=-397/6488, 14-15=-407/6863, 19-22=-12/372, 17-19=-12/372, 16-17=-10/375, 12-14=-415/7163
WEBS	3-29=-51/1092, 11-14=-6/1109, 7-25=-97/1984, 6-25=-1249/208, 6-26=-43/807, 4-26=-1444/202, 4-28=-13/755, 3-28=-1994/279, 11-18=-2021/220, 10-18=0/710, 10-21=-1386/180, 8-21=-29/690, 8-25=-1135/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 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
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 12=176.
 - This truss 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.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821881
2546929	A12	Hip	1	1		

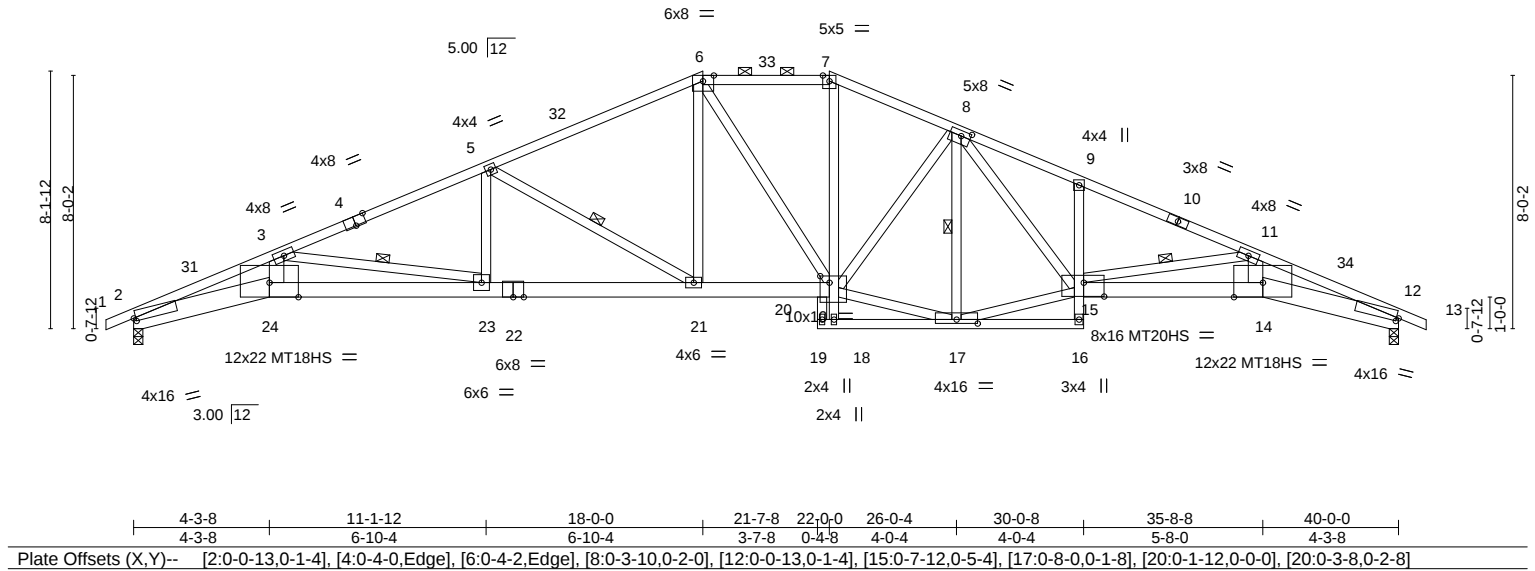
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1BtAS2QkL0de9uyChRxo_p7DA38lzcAj9SrJpByDGMH

-0-10-8 4-3-8 11-1-12 18-0-0 21-7-8 22-0-0 26-0-4 30-0-8 35-8-8 40-0-0 40-10-8
0-10-8 4-3-8 6-10-4 6-10-4 3-7-8 0-4-8 4-0-4 4-0-4 5-8-0 4-3-8 0-10-8

Scale = 1:72.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.43	20-21	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.94	20-21	>511	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.47	12	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-7: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-11-8 max.): 6-7.
BOT CHORD 2x4 SPF No.2 *Except* 2-24,12-14: 2x8 SP 2400F 2.0E, 22-24,14-15: 2x6 SPF 2100F 1.8E 20-22: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 3-24,11-14: 2x6 SPF No.2	WEBS 1 Row at midpt 3-23, 5-21, 11-15, 8-17

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
Max Horz	2=123(LC 16)
Max Uplift	2=177(LC 12), 12=177(LC 13)
Max Grav	2=2282(LC 1), 12=2283(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7975/629, 3-5=-5150/365, 5-6=-3696/289, 6-7=-3273/297, 7-8=-3588/299, 8-9=-5229/412, 9-11=-5334/348, 11-12=-7947/515
BOT CHORD	2-24=-6577/389, 23-24=-639/7064, 21-23=-319/4692, 20-21=-104/3283, 9-15=-437/149, 14-15=-417/7031, 12-14=-425/7358
WEBS	3-24=-38/1181, 3-23=-2407/324, 5-23=0/709, 5-21=-1608/248, 6-21=-50/888, 6-20=-264/236, 11-15=-2203/233, 11-14=0/1183, 7-20=-49/978, 8-17=-1639/107, 15-17=-88/3142, 8-15=-205/2460, 17-20=-109/3336

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-0-4, Interior(1) 26-0-4 to 40-10-8 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
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=177, 12=177.
 - This truss 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 sheathing be applied directly to the bottom chord.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821881
2546929	A12	Hip	1	1	Job Reference (optional)	

NOTES-
 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/13 Woodside	143821882
2546929	A13	Hip	1	1		

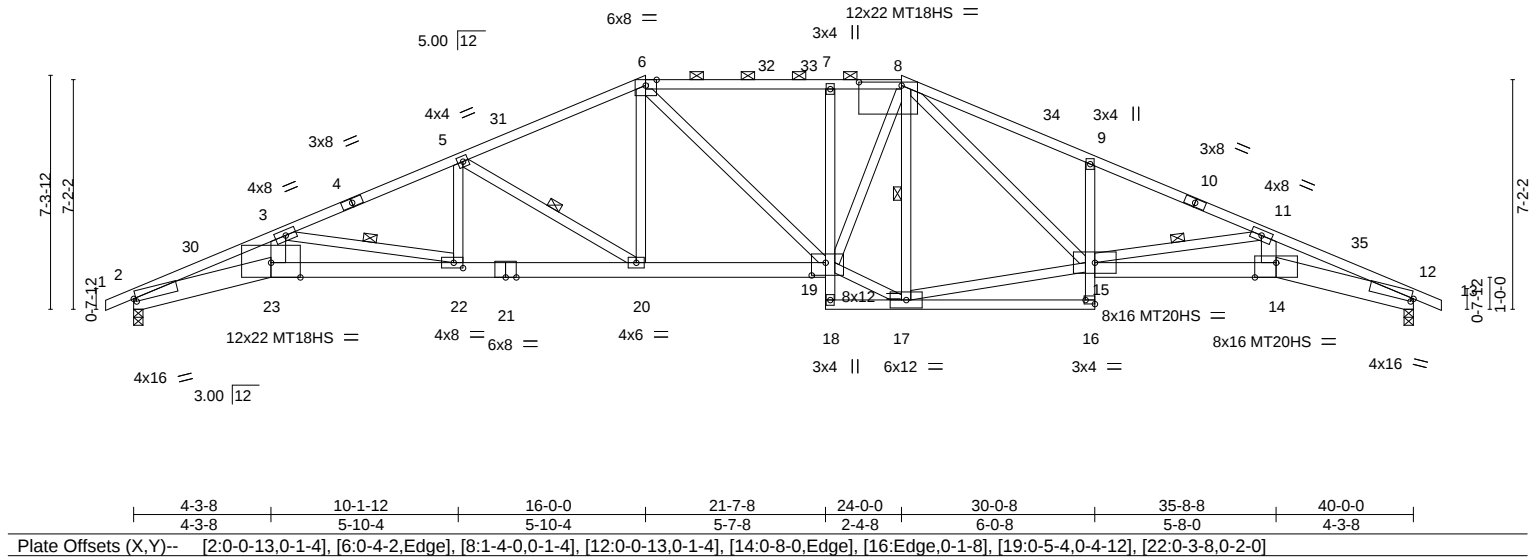
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:50 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-zZ?xtkR_tdtMOB6aps_G3EDXltqnRWL0cmKQu4yDGMF

-0-10-8 4-3-8 10-1-12 16-0-0 21-7-8 24-0-0 30-0-8 35-8-8 40-0-0 40-10-8
0-10-8 4-3-8 5-10-4 5-10-4 5-7-8 2-4-8 6-0-8 5-8-0 4-3-8 0-10-8

Scale = 1:72.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.45	19-20	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-1.00	19-20	>482	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.47	12	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-8: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-1-8 max.): 6-8.
BOT CHORD 2x4 SPF No.2 *Except* 2-23,12-14: 2x8 SP 2400F 2.0E, 21-23,14-15: 2x6 SPF 2100F 1.8E 19-21: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 3-23,11-14: 2x6 SPF No.2	WEBS 1 Row at midpt 3-22, 5-20, 8-17, 11-15

REACTIONS.	(size) 2=0-3-8, 12=0-3-8 Max Horz 2=-110(LC 17) Max Uplift 2=-184(LC 12), 12=-180(LC 13) Max Grav 2=2279(LC 1), 12=2279(LC 1)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7899/638, 3-5=-5354/402, 5-6=-4055/304, 6-7=-3772/319, 7-8=-3741/315, 8-9=-5258/458, 9-11=-5317/361, 11-12=-7935/525
BOT CHORD	2-23=-650/7311, 22-23=-629/6995, 20-22=-349/4891, 19-20=-160/3638, 7-19=-487/119, 16-17=-1/314, 9-15=-520/191, 14-15=-424/7012, 12-14=-432/7345
WEBS	3-23=-45/1142, 3-22=-2146/285, 5-22=-1/712, 5-20=-1443/221, 6-20=-39/880, 6-19=-117/421, 17-19=-55/3157, 8-19=-127/1893, 8-17=-1815/108, 15-17=-85/2803, 8-15=-258/2401, 11-15=-2193/226, 11-14=-4/1206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 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
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 12=180.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



December 2,2020

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/13 Woodside	I43821882
2546929	A13	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/13 Woodside	143821883
2546929	A14	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:51 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-RmZJ43Scex?D0LhnNZVvcSlibHAIAxm9rQ4zQWYDGME

-0-10-8	4-3-8	9-1-12	14-0-0	20-6-8	26-0-0	32-10-4	40-0-0	40-10-8
0-10-8	4-3-8	4-10-4	4-10-4	6-6-8	5-5-8	6-10-4	7-1-12	0-10-8

Scale = 1:72.2

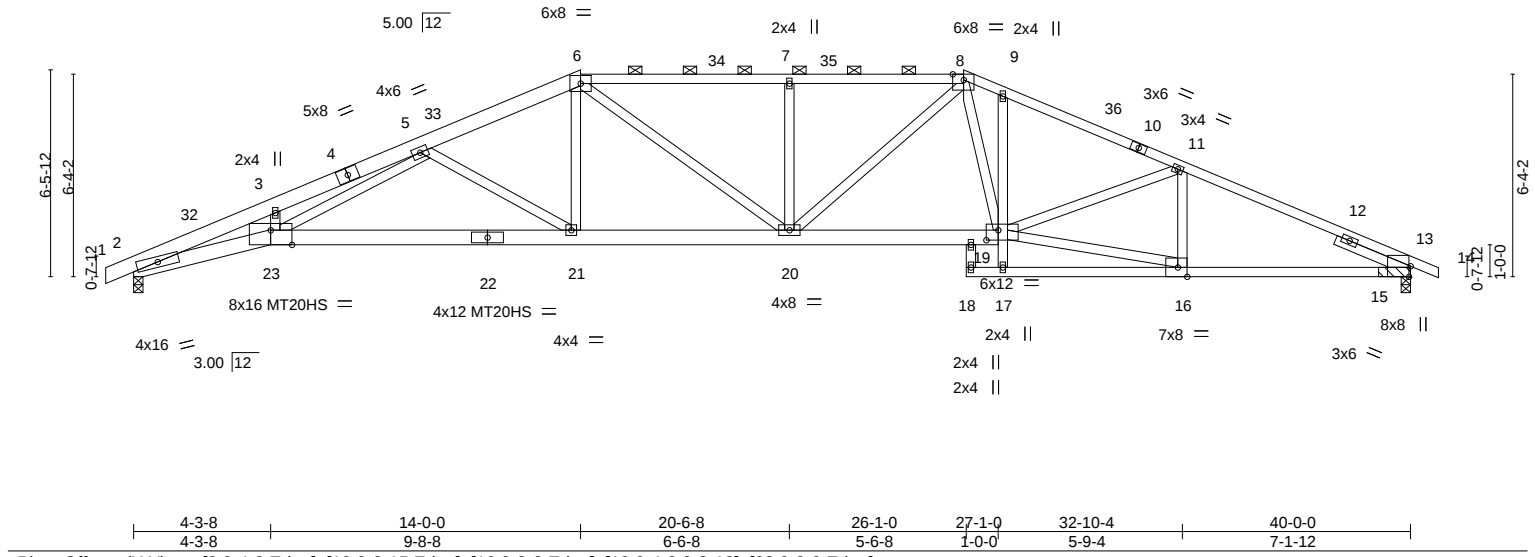


Plate Offsets (X,Y)--		[8:0-4-2,Edge], [13:0-3-15,Edge], [16:0-3-8,Edge], [19:0-4-8,0-3-12], [23:0-8-0,Edge]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 20.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.86	Vert(LL) -0.36	20 >999 240
BC 0.88	Vert(CT) -0.83	21-23 >580 180
WB 0.96	Horz(CT) 0.36	13 n/a n/a
Matrix-AS		
PLATES	GRIP	
MT20	197/144	
MT20HS	148/108	
Weight: 199 lb		FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-6: 2x6 SPF No.2, 8-10: 2x4 SPF No.2, 1-4: 2x6 SPF 2100F 1.8E
BOT CHORD 2x6 SPF 2100F 1.8E *Except*
13-18: 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, except
2-0-0 oc purlins (2-4-15 max.): 6-8.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-3-10)
Max Horz 2=99(LC 12)
Max Uplift 2=-125(LC 12), 13=-121(LC 13)
Max Grav 2=2285(LC 1), 13=2292(LC 1)

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

TOP CHORD 2-3=-8252/384, 3-5=-7953/448, 5-6=-4596/297, 6-7=-4497/335, 7-8=-4500/336,
8-9=-4529/334, 9-11=-4648/298, 11-13=-4365/257
BOT CHORD 2-23=-389/7603, 21-23=-249/5272, 20-21=-149/4135, 19-20=-135/4021, 13-16=-168/3936
WEBS 3-23=0/427, 5-23=-191/2464, 5-21=-1297/239, 6-21=-23/957, 6-20=-71/670,
7-20=-635/167, 16-19=-172/3894, 11-19=-6/473, 11-16=-646/110, 8-20=-75/822,
8-19=-113/949

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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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=125, 13=121.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821883
2546929	A14	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 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/13 Woodside	I43821884
2546929	A15	HIP	1	1		

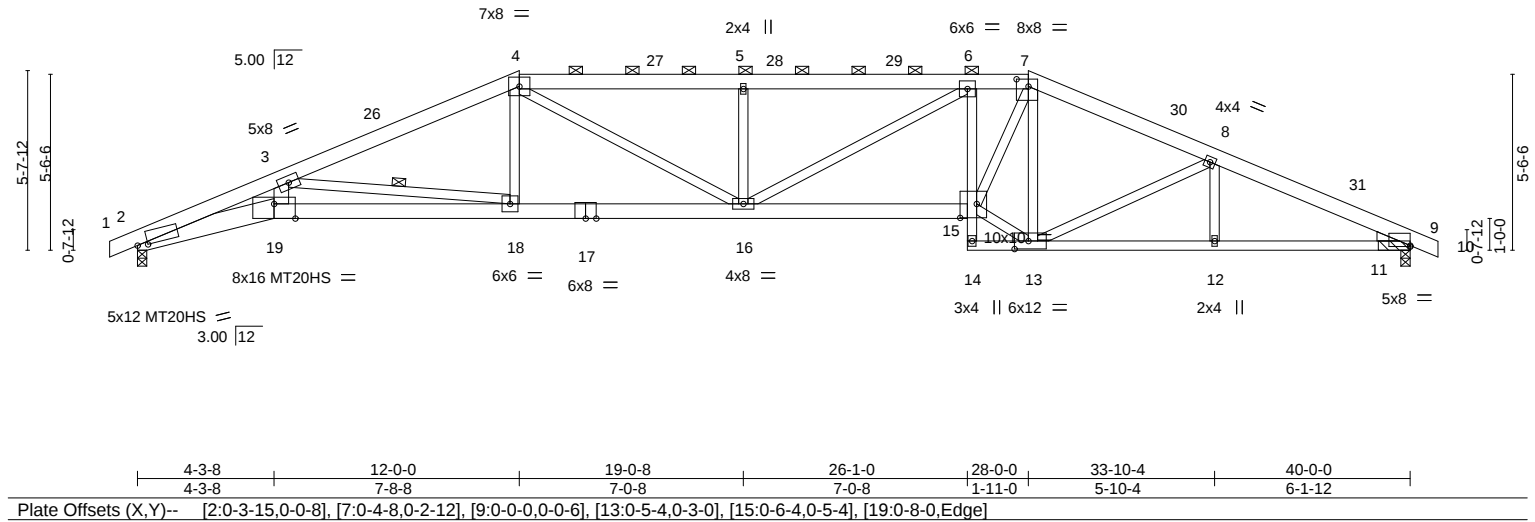
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:52 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-vy7hIPTEPF74eVGzwH0k9flurhVNVPAI44pWyyyDGMD

-0-10-8	4-3-8	12-0-0	19-0-8	26-1-0	28-0-0	33-10-4	40-0-0	40-10-8
0-10-8	4-3-8	7-8-8	7-0-8	7-0-8	1-11-0	5-10-4	6-1-12	0-10-8

Scale = 1:72.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.40 15-16	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.88 15-16	>545	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.41 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	2-0-0 oc purlins (2-6-4 max.): 4-7.
2-19: 2x8 SP 2400F 2.0E, 17-19: 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied.
6-14: 2x4 SPF No.2, 15-17: 2x6 SPF No.2	WEBS 1 Row at midpt 3-18
2x4 SPF No.2 *Except*	
3-19: 2x6 SPF No.2, 13-15: 2x4 SPF 1650F 1.5E	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 9=(0-3-8 + bearing block) (req. 0-3-9)
	Max Horz 2=-83(LC 17)
	Max Uplift 2=-186(LC 12), 9=-186(LC 13)
	Max Grav 2=2279(LC 1), 9=2279(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-8544/675, 3-4=-5115/384, 4-5=-5462/479, 5-6=-5460/478, 6-7=-5024/428, 7-8=-3974/331, 8-9=-4512/343
BOT CHORD	2-19=-661/7797, 18-19=-646/7498, 16-18=-268/4647, 15-16=-298/5088, 6-15=-762/164, 12-13=-244/4029, 9-12=-244/4029
WEBS	3-19=-33/1545, 3-18=-2855/382, 4-18=0/708, 4-16=-150/1173, 5-16=-701/188, 6-16=-151/626, 13-15=-179/4129, 7-15=-256/3297, 7-13=-1915/149, 8-13=-475/137

- NOTES-**
- 1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 9 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) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-4-13, Interior(1) 2-4-13 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 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
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=186, 9=186.

Continued on page 2



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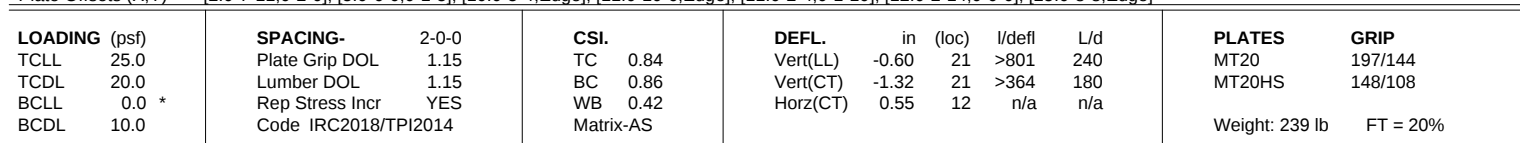
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821884
2546929	A15	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.

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:54 2020 Page 1
 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-sLFRi5UVxsNotpPL2i2CE4NDUDUCPNQybXNid1ryDGMb
 -0-10-8 4-3-8 7-2-13 10-0-0 14-10-4 15-4-5 19-10-4 20-8-11 24-10-4 26-1-0 28-10-8 30-0-0 33-7-4 37-2-8 40-0-0 40-10-8
 0-10-8 4-3-8 2-11-5 2-9-3 4-10-4 0-6-1 4-5-15 0-10-7 4-1-9 1-2-12 2-9-8 1-1-8 3-7-4 3-7-4 2-9-8 0-10-8
 Scale = 1:71.8



REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=75(LC 16)
 Max Uplift 2=-171(LC 8), 12=-147(LC 9)
 Max Grav 2=2278(LC 1), 12=2198(LC 1)

NOTES-

- 1) Attached 11-1-0 scab 10 to 12, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-3 from end at joint 10, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 6-6-11 from end at joint 10, nail 2 row(s) at 2" o.c. for 4-3-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 39-11-12 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) 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.



December 2.2020

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	A16	Hip	1	1	I43821885
Job Reference (optional)					

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=171, 12=147.
 - 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/13 Woodside	I43821886
2546929	A17	Hip	1	1	Job Reference (optional)	

Builders First Source, Valley Center, KS 67147

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-oYnKCHSS?UBWu2Z4i7aCOAYeemFXFP8bIRH7ARyD2vb

0-10-8 4-3-8 8-0-0 14-0-5 20-0-11 25-3-4 26-1-0 28-10-8 32-0-0 34-6-15 37-2-8 40-0-0 40-10-8
0-10-8 4-3-8 3-8-8 6-0-5 6-0-5 5-2-9 0-9-12 2-9-8 3-1-8 2-6-15 2-7-9 2-9-8 0-10-8

Scale = 1:71.5

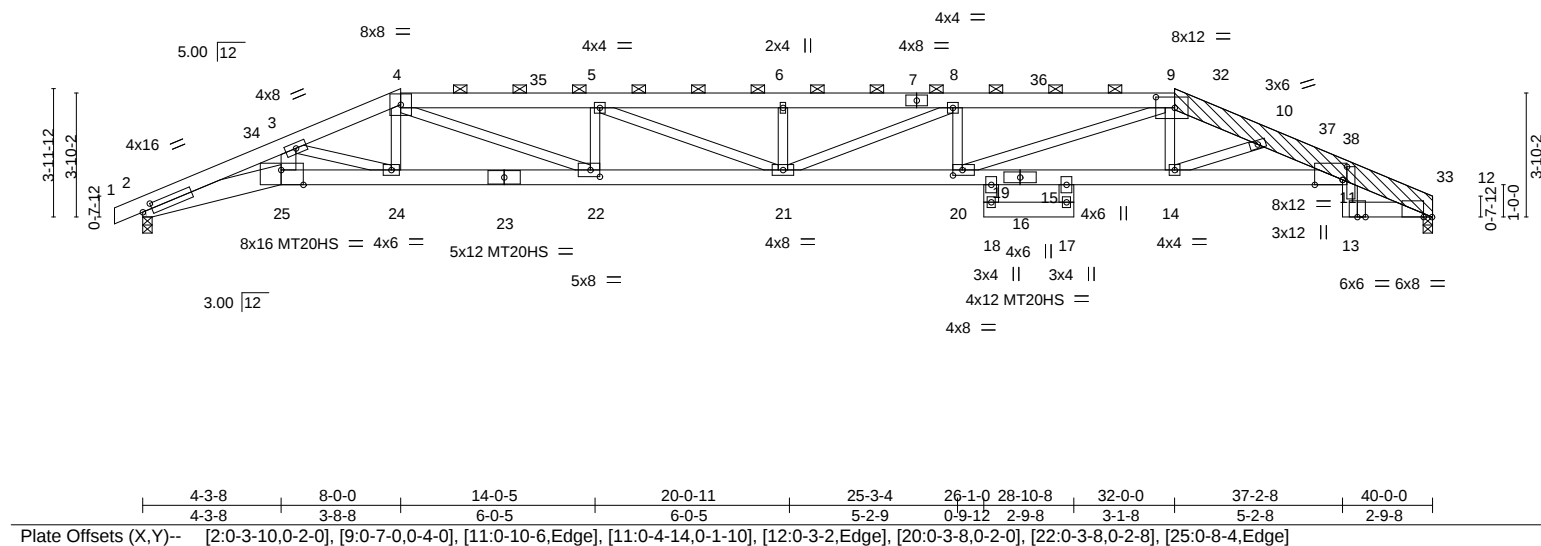


Plate Offsets (X,Y)--	4-3-8	8-0-0	14-0-5	20-0-11	25-3-4	26-1-0	28-10-8	32-0-0	37-2-8	40-0-0
	4-3-8	3-8-8	6-0-5	6-0-5	5-2-9	0-9-12	2-9-8	3-1-8	5-2-8	2-9-8
	[2:0-3-10,0-2-0], [9:0-7-0,0-4-0], [11:0-10-6,Edge], [11:0-4-14,0-1-10], [12:0-3-2,Edge], [20:0-3-8,0-2-0], [22:0-3-8,0-2-8], [25:0-8-4,Edge]									
LOADING (psf)	SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL 25.0	Plate Grip DOL 1.15		TC 0.96		Vert(LL) -0.70 20-21 >689 240		MT20		197/144	
TCDL 20.0	Lumber DOL 1.15		BC 0.83		Vert(CT) -1.53 20-21 >313 180		MT20HS		148/108	
BCLL 0.0 *	Rep Stress Incr YES		WB 0.67		Horz(CT) 0.55 12 n/a n/a					
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 248 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
4-7: 2x6 SPF 2100F 1.8E, 9-12: 2x8 SP 2400F 2.0E
BOT CHORD 2x6 SPF No.2 *Except*
2-25: 2x8 SP 2400F 2.0E, 23-25,11-16,16-23: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
3-25: 2x6 SPF No.2
OTHERS 2x8 SP 2400F 2.0E
LBR SCAB 9-12 2x8 SP 2400F 2.0E one side

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: 4-9.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=2278/0-3-8, 12=2198/0-3-8
Max Horz 2=62(LC 16)
Max Uplift 2=-192(LC 8), 12=-169(LC 9)

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

TOP CHORD 2-34=-8331/686, 3-34=-8272/689, 3-4=-6429/587, 4-35=-8353/844, 5-35=-8355/843,
5-6=-9200/931, 6-7=-9200/931, 7-8=-9200/931, 8-36=-8479/860, 9-36=-8479/860,
9-32=-6315/593, 10-32=-6382/581, 10-37=-7118/624, 37-38=-7143/616, 11-38=-7159/615,
11-33=-1275/122, 12-33=-1280/103
BOT CHORD 2-25=-606/7752, 24-25=-577/7303, 23-24=-484/5943, 22-23=-484/5943, 21-22=-763/8353,
20-21=-773/8479, 19-20=-494/6120, 16-19=-484/5828, 15-16=-484/5828, 14-15=-494/6120,
11-14=-558/6990, 17-18=-9/292, 11-13=-45/701
WEBS 3-25=-75/1375, 3-24=-1375/148, 4-24=0/812, 4-22=-311/2719, 5-22=-965/199,
5-21=-105/1012, 6-21=-494/130, 9-14=0/540, 8-20=-871/186, 8-21=-85/881,
9-20=-308/2635, 10-14=-971/108

NOTES-

- 1) Attached 8-11-0 scab 9 to 12, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-3 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 2-1-12 from end at joint 9, nail 2 row(s) at 2" o.c. for 6-6-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-4-13, Interior(1) 2-4-13 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 39-11-12 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) 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.



December 2,2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821886
2546929	A17	Hip	1	1	Job Reference (optional)	

Builders First Source, Valley Center, KS 67147

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-oYnKCHSS?UBWu2Z4i7aCOAYeemFXFP8biRH7ARyD2vb

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 169 lb uplift at joint 12.
 - 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.

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

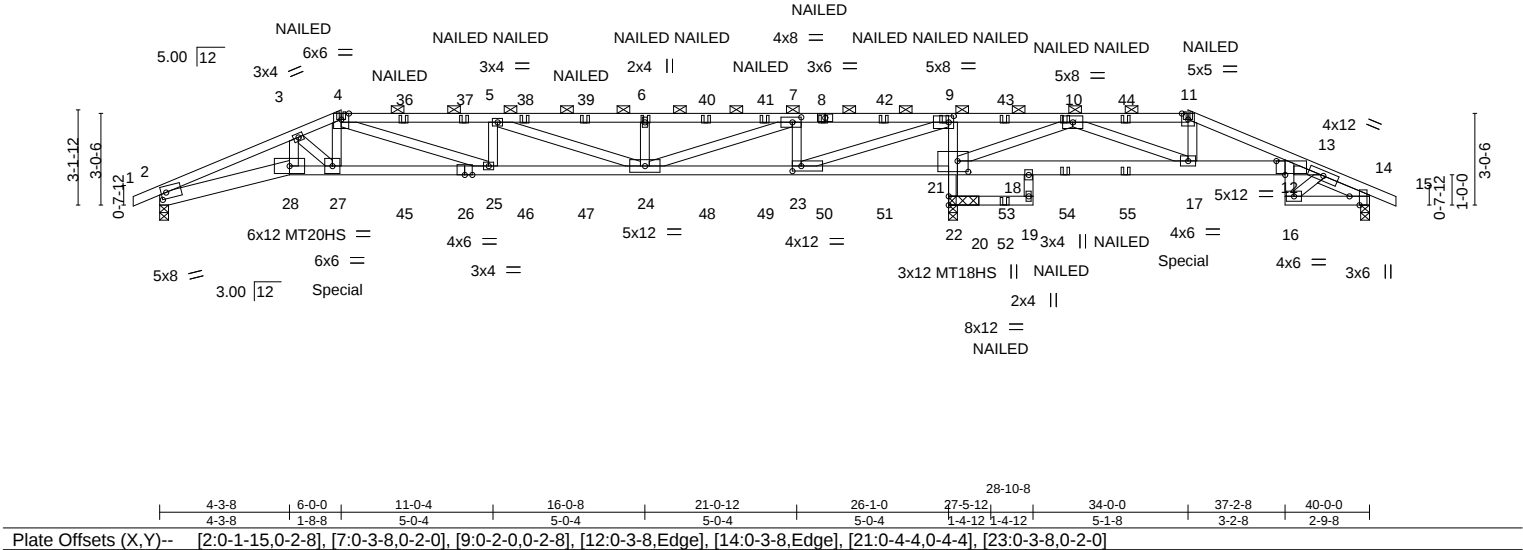
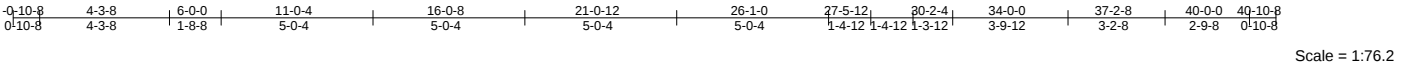
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	143821887
2546929	A18	HIP GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:29:59 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-C12KmoYdlO04zalJrFeNx8435Vu72cSKhf0i2yDGM6
28-10-8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.31 24-25	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.66 24-25	>474	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.16 14	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 325 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 8-11: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except 2-0-0 oc purlins (3-6-3 max.): 4-11.
BOT CHORD 2x4 SPF No.2 *Except* 2-28: 2x6 SPF 2100F 1.8E, 26-28,21-26: 2x4 SPF 1650F 1.5E 12-21: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-11-1 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-25,9-23: 2x4 SPF 1650F 1.5E	
SLIDER Right 2x4 SPF No.2 1-9-0	

REACTIONS. (size) 2=0-3-8, 22=(0-3-8 + bearing block) (req. 0-4-10), 14=0-3-8
Max Horz 2=44(LC 8)
Max Uplift 2=-375(LC 8), 22=-984(LC 4), 14=-98(LC 9)
Max Grav 2=2252(LC 21), 22=5893(LC 1), 14=456(LC 22)

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

TOP CHORD 2-3=-7312/1266, 3-4=-6749/1203, 4-5=-7642/1371, 5-6=-5820/1059, 6-7=-5820/1059, 7-9=-933/219, 9-10=-1192/7563, 10-11=-346/167, 11-12=-378/223, 12-13=-298/111

BOT CHORD 2-28=-1163/6691, 27-28=-1133/6532, 25-27=-1070/6269, 24-25=-1315/7639, 23-24=-176/933, 21-23=-7702/1259, 21-22=-5805/988, 9-21=-3554/636, 18-21=-2873/463, 17-18=-3021/486, 12-17=-129/360, 12-16=-158/795, 14-16=-99/457

WEBS 3-28=-93/687, 3-27=-316/183, 4-27=-222/1313, 4-25=-295/1497, 5-24=-1985/330, 6-24=-664/152, 7-24=-898/5233, 7-23=-2336/427, 9-23=-1485/8856, 11-17=-396/114, 13-16=-942/205, 10-21=-4923/877, 10-17=-480/3591

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 2x4 SPF No.2 bearing block 12" long at jt. 22 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



December 2,2020

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MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821887
2546929	A18	HIP GIRDER	1	2	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:00 2020 Page 2
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-gUcjz8ZGWi8xbktVOy9cTLdErVEMn3iUvJlxFVyDGM5

NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=375, 22=984.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 473 lb down and 105 lb up at 6-0-0, 116 lb down and 45 lb up at 6-0-12, 116 lb down and 45 lb up at 8-0-12, 116 lb down and 45 lb up at 10-0-12, 116 lb down and 45 lb up at 12-0-12, 116 lb down and 45 lb up at 14-0-12, 116 lb down and 45 lb up at 16-0-12, 116 lb down and 45 lb up at 18-0-12, 116 lb down and 45 lb up at 20-0-0, 116 lb down and 45 lb up at 21-11-4, 116 lb down and 45 lb up at 23-11-4, and 116 lb down and 45 lb up at 26-2-12, and 611 lb down and 155 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-90, 4-11=-90, 11-12=-90, 12-15=-90, 28-29=-20, 21-28=-20, 19-22=-20, 12-18=-20, 16-32=-20
- Concentrated Loads (lb)
 - Vert: 4=-84(F) 8=-84(F) 26=-116 9=-84(F) 21=-116 27=-589(F=-473) 24=-116 6=-84(F) 11=-116(F) 17=-611(F) 10=-116(F) 36=-84(F) 37=-84(F) 38=-84(F) 39=-84(F) 40=-84(F) 41=-84(F) 42=-84(F) 43=-90(F) 44=-116(F) 45=-116 46=-116 47=-116 48=-116 49=-116 50=-116 51=-116 52=-111(F) 54=-85(F) 55=-85(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821888
2546929	B1	Common	3	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:17 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-hm88XymwWwHX8Lgmu1zbfqGZmAYGwD_qSNLK0yDGLq

Job Reference (optional)

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

Scale = 1:23.4

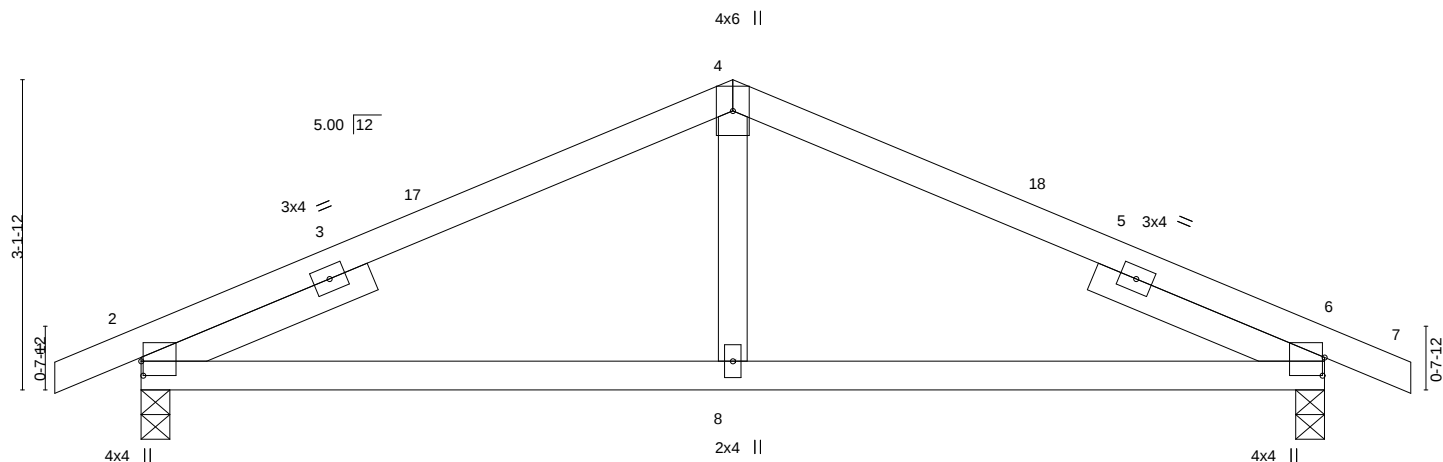


Plate Offsets (X,Y)--	[2:0-1-12,0-0-4], [6:0-2-3,0-0-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.04	8-15	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.07	8-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.02	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 40 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
 Max Horz 2=45(LC 12)
 Max Uplift 2=-64(LC 12), 6=-64(LC 13)
 Max Grav 2=739(LC 1), 6=739(LC 1)

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

TOP CHORD 2-4=-863/228, 4-6=-863/228
 BOT CHORD 2-8=-112/786, 6-8=-112/786
 WEBS 4-8=0/257

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 2,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821889
2546929	B2	Hip Girder	1	1		

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

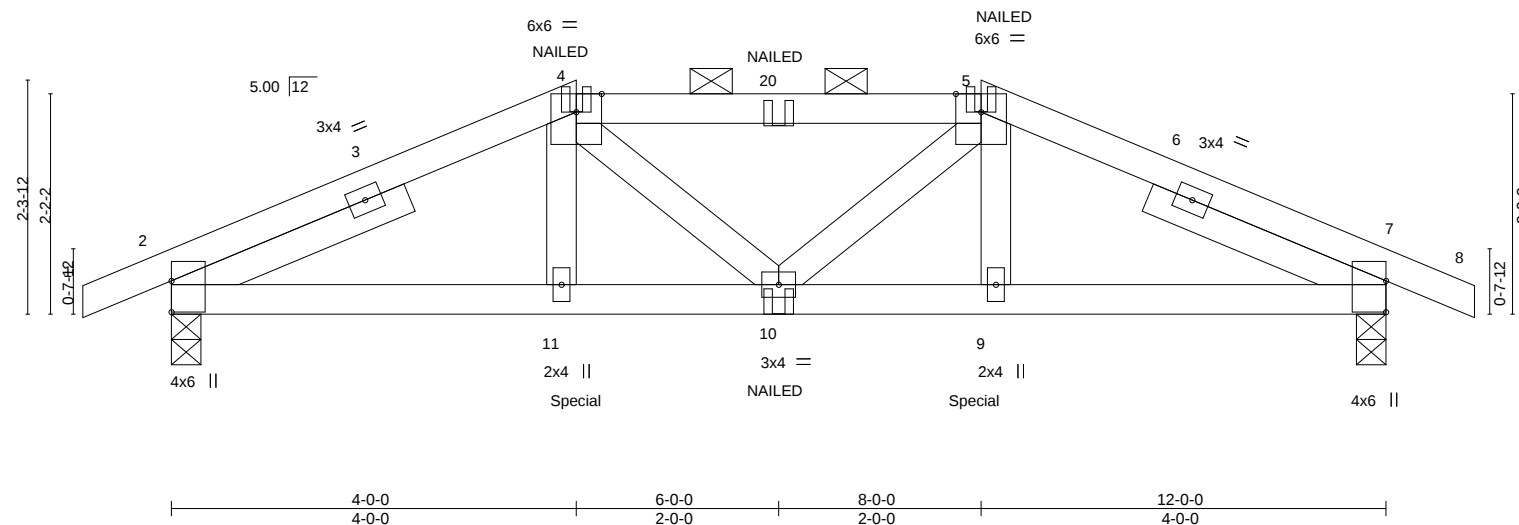
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:18 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-9yhWlinYHEPOIVFzSkUqC8NMC9Qn?NS7266usSyDGLp

Job Reference (optional)

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

Scale = 1:22.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.04	9-10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.08	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 46 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except 2-0-0 oc purlins (3-7-7 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-31(LC 9)
 Max Uplift 2=-159(LC 8), 7=-159(LC 9)
 Max Grav 2=1131(LC 1), 7=1131(LC 1)

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

TOP CHORD 2-4=-1842/278, 4-5=-1743/248, 5-7=-1842/278
 BOT CHORD 2-11=-233/1682, 10-11=-233/1663, 9-10=-208/1663, 7-9=-207/1682

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 7=159.
- This truss 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) 290 lb down and 66 lb up at 4-0-0, and 290 lb down and 66 lb up at 7-11-4 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-90, 4-5=-90, 5-8=-90, 12-16=-20
 Concentrated Loads (lb)
 Vert: 4=-60(F) 5=-60(F) 11=-290(F) 9=-290(F) 10=-27(F) 20=-60(F)



December 2,2020

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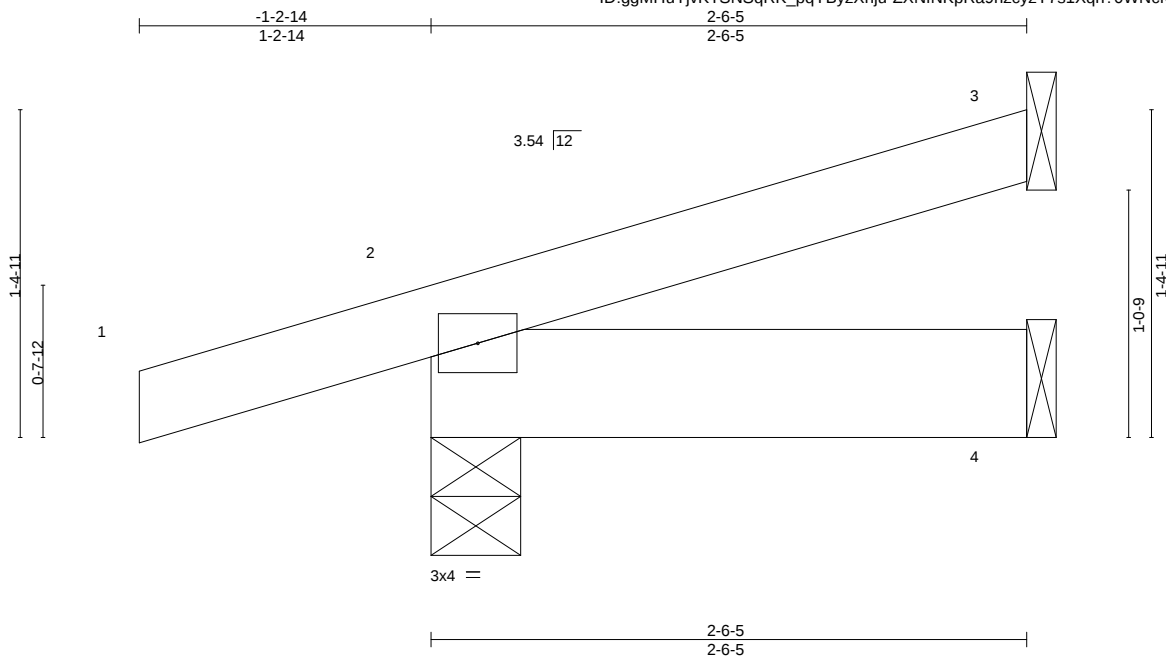
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2546929	Truss CJ2	Truss Type Jack-Open	Qty 1	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821891
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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Scale = 1:9.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	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: 9 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 2-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 3=-23(LC 12), 2=-65(LC 8)
Max Grav 3=76(LC 1), 2=275(LC 1), 4=50(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



December 2, 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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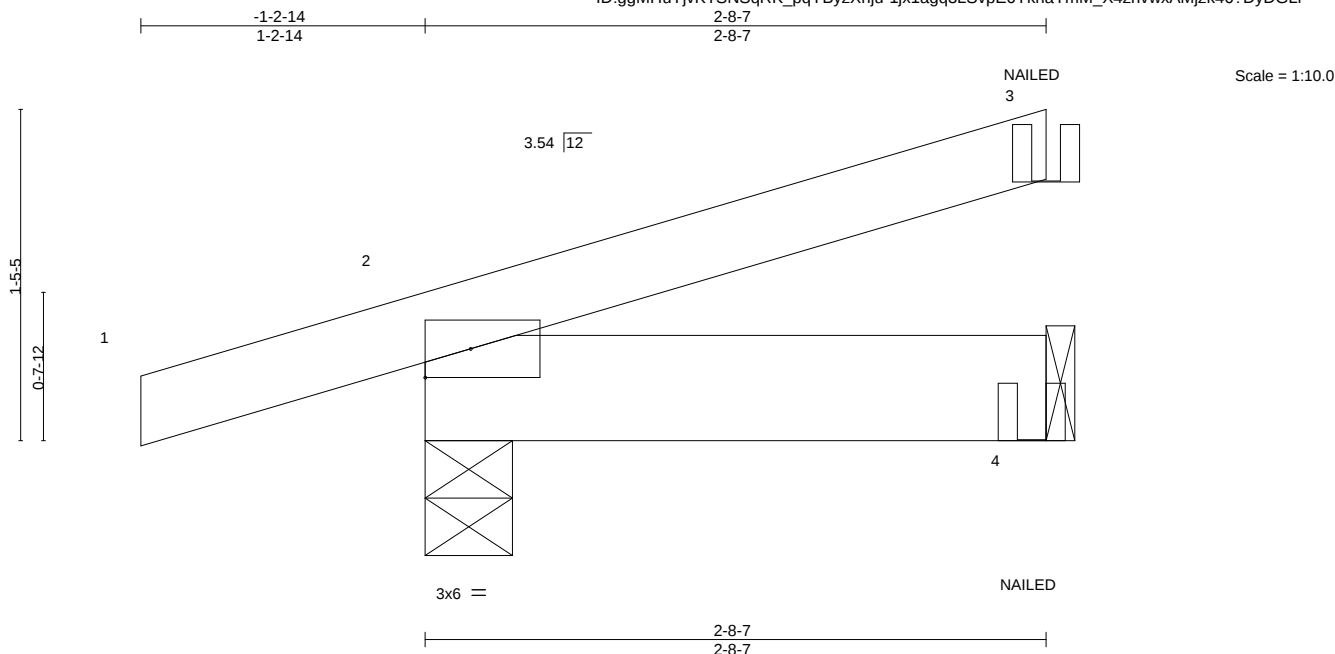


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss CJ3	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821892
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:22 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1jx1agq3LSvpE6YkhaYmM_X4znvwxAMjzk46?DyDGLI



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 10 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 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 4=Mechanical
Max Horz 2=43(LC 4)
Max Uplift 2=-61(LC 21), 4=-37(LC 5)
Max Grav 2=283(LC 1), 4=150(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- "NAILED" indicates 3-10d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 4-5=-20
Concentrated Loads (lb)
Vert: 4=-25(B)



December 2, 2020

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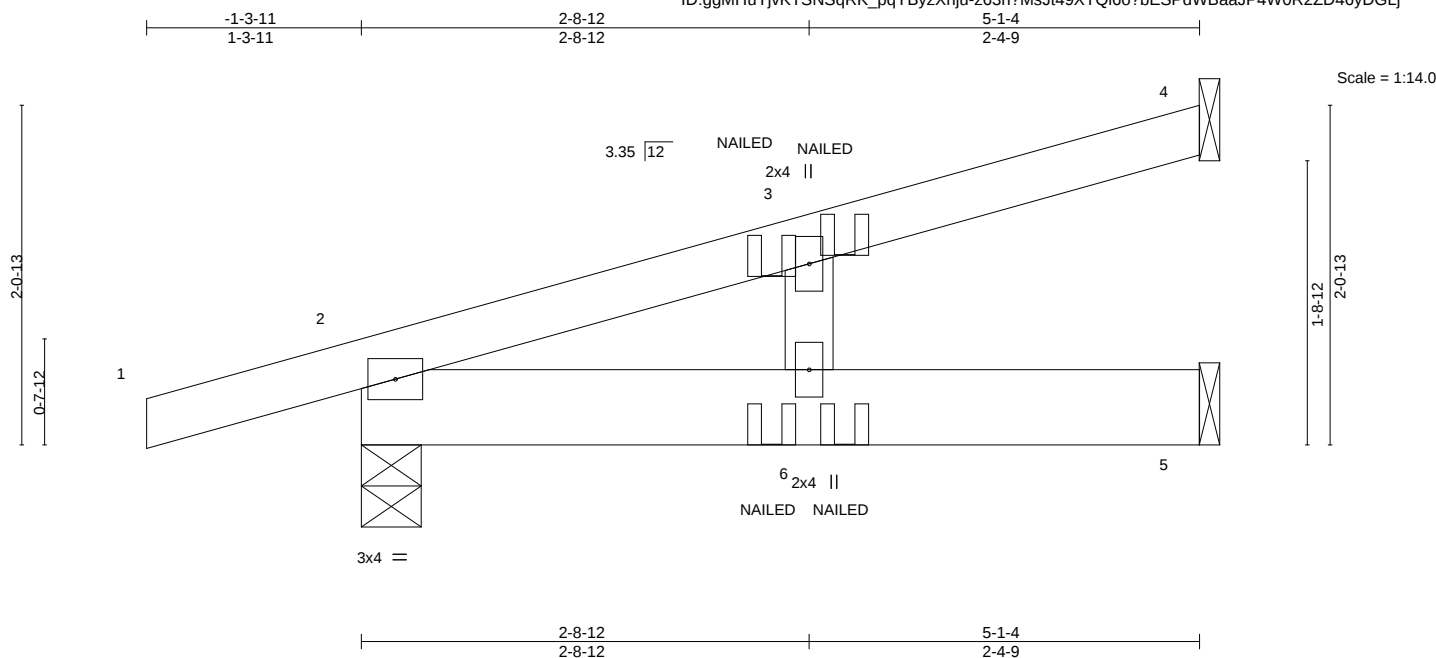
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821893
2546929	CJ4	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. Tue Dec 1 17:30:24 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-z63n?MsJt49XTQi6o?bESPdWBaaJP4W0R2ZD46yDGLj



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.02	6	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.04	6	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.01	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=69(LC 21)
Max Uplift 4=-30(LC 8), 2=-76(LC 4), 5=-9(LC 8)
Max Grav 4=115(LC 1), 2=416(LC 1), 5=153(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-12(F=-9, B=-2)



December 2,2020

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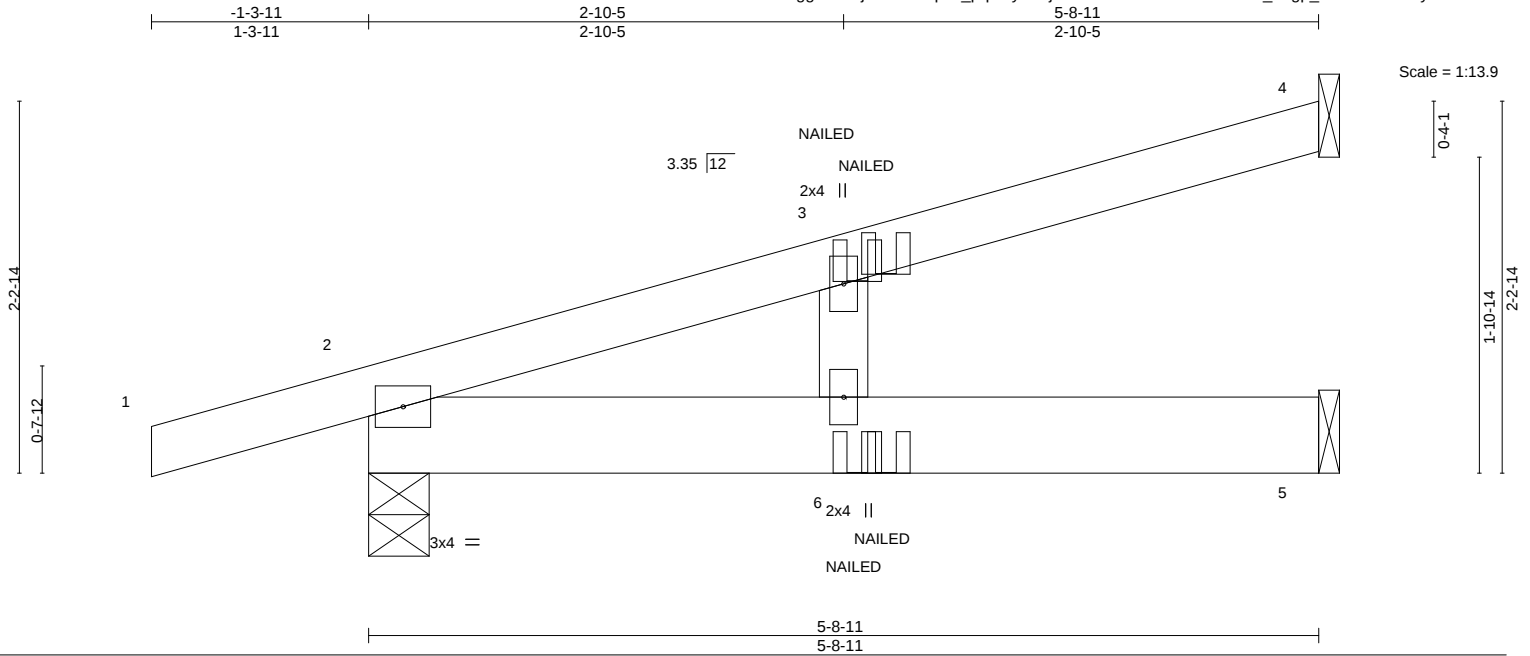
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821894
2546929	CJ5	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. Tue Dec 1 17:30:25 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Sld9DhsxdNHO5aHJMi6T_d9gp_v68Xi9fJmcYyDGLi



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.03	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.06	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=76(LC 21)
Max Uplift 4=-36(LC 8), 2=-78(LC 4), 5=-8(LC 8)
Max Grav 4=136(LC 1), 2=447(LC 1), 5=166(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-4=-90, 5-7=-20
- Concentrated Loads (lb)
Vert: 6=-9(F=1, B=-9)



December 2, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821895
2546929	CJ6	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. Tue Dec 1 17:30:27 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-OhkweNuB9?X6KtRhU78x32FqPoUucPIS70othQyDGLg

-1-2-14	3-10-10	6-4-15	8-4-5
1-2-14	3-10-10	2-6-5	1-11-6

Scale = 1:19.3

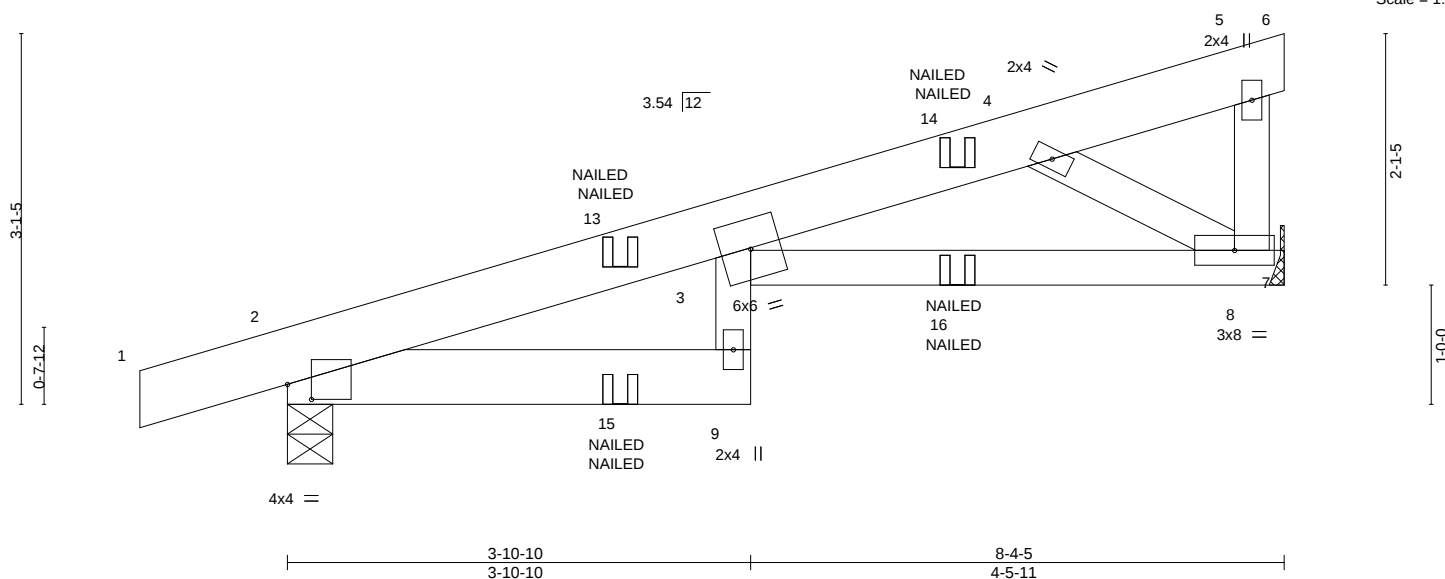


Plate Offsets (X,Y)-- [2:0-2-7,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.12 9 >809 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26 9 >380 180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.11 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP				Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-9.

REACTIONS.

(size) 8=Mechanical, 2=0-4-9
 Max Horz 2=108(LC 4)
 Max Uplift 8=-106(LC 8), 2=-101(LC 4)
 Max Grav 8=555(LC 1), 2=609(LC 1)

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

TOP CHORD 3-4=-855/149
 BOT CHORD 3-8=-203/932
 WEBS 4-8=-1050/228

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=106, 2=101.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=-90, 3-5=-90, 5-6=-40, 9-10=-20, 3-7=-20
- Concentrated Loads (lb)
 Vert: 15=2(F=1, B=1) 16=-147(F=-74, B=-74)



December 2,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821896
2546929	CJ7	Diagonal Hip Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:28 2020 Page 1

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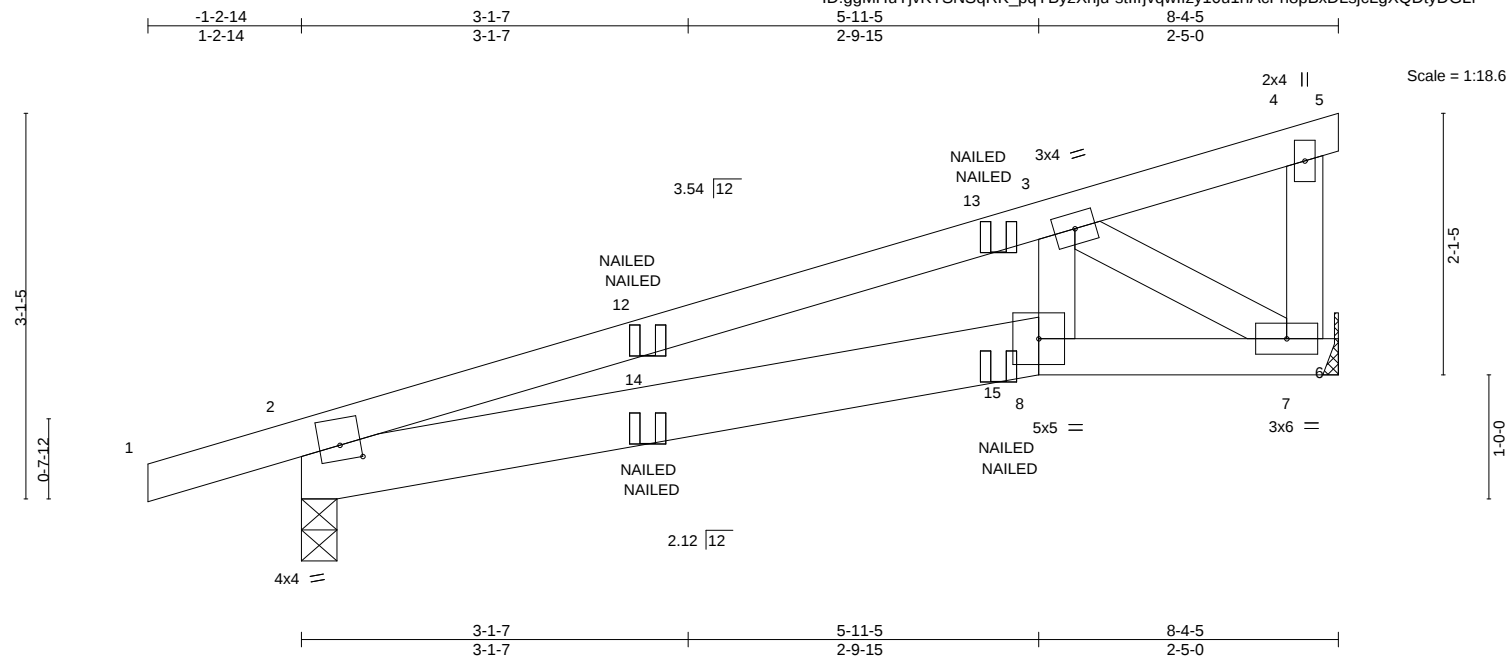


Plate Offsets (X,Y)-- [2-0-2-0,0-1-7]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01	8-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.04	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-8: 2x6 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-3-7
 Max Horz 2=92(LC 5)
 Max Uplift 7=-77(LC 8), 2=-97(LC 4)
 Max Grav 7=501(LC 1), 2=585(LC 1)

FORCES.

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

TOP CHORD 2-3=-945/137
 BOT CHORD 2-8=-154/863, 7-8=-148/805
 WEBS 3-8=0/278, 3-7=-927/188

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 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.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-90, 4-5=-40, 8-9=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 13=-36(F=-18, B=-18) 14=2(F=1, B=1) 15=-35(F=-18, B=-18)



December 2,2020

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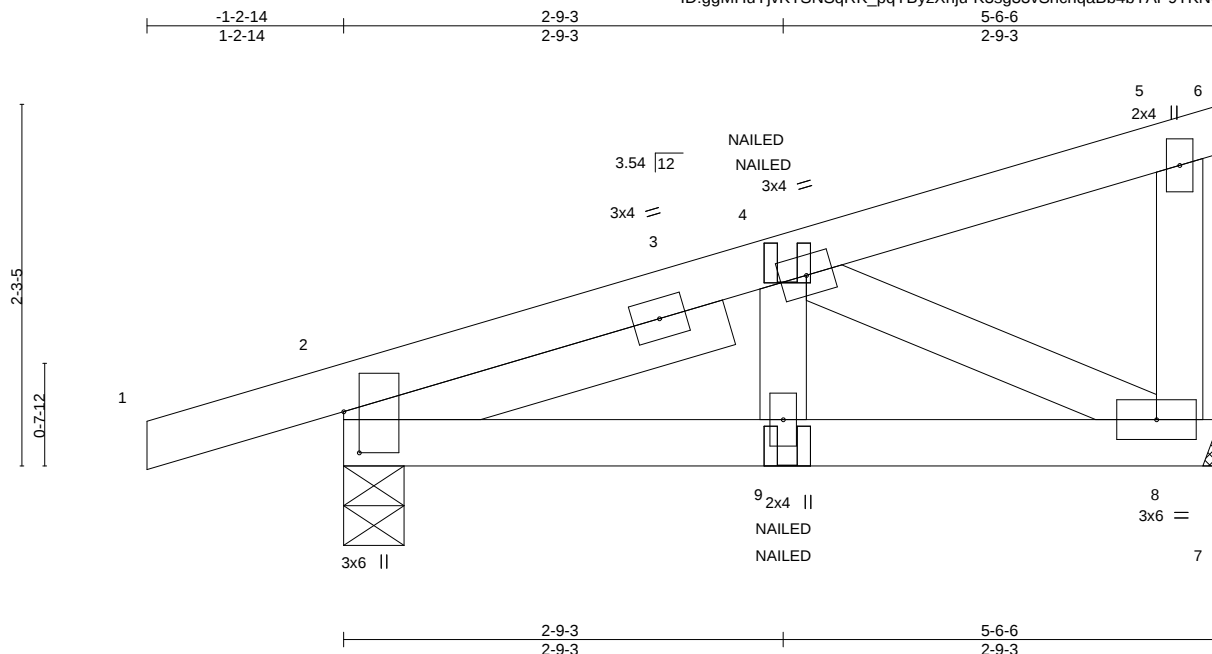
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2546929	Truss CJ8	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821897
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:29 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-K3sg33vShcnqaBb4bYAP9TKNCbK94L8laKH_IJyDGL



Scale = 1:14.5

Plate Offsets (X,Y)-- [2:0-3-2,0-1-3]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	9	>999
TCDL 20.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	9	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	8	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 23 lb	FT = 20%		

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 8=Mechanical
Max Horz 2=78(LC 7)
Max Uplift 2=-77(LC 4), 8=-40(LC 8)
Max Grav 2=412(LC 1), 8=292(LC 1)

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

TOP CHORD 2-4=-325/34
BOT CHORD 2-9=-37/330, 8-9=-37/330
WEBS 4-8=-364/60

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-90, 5-6=-40, 7-10=-20
Concentrated Loads (lb)
Vert: 9=2(F=1, B=1)



December 2,2020

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

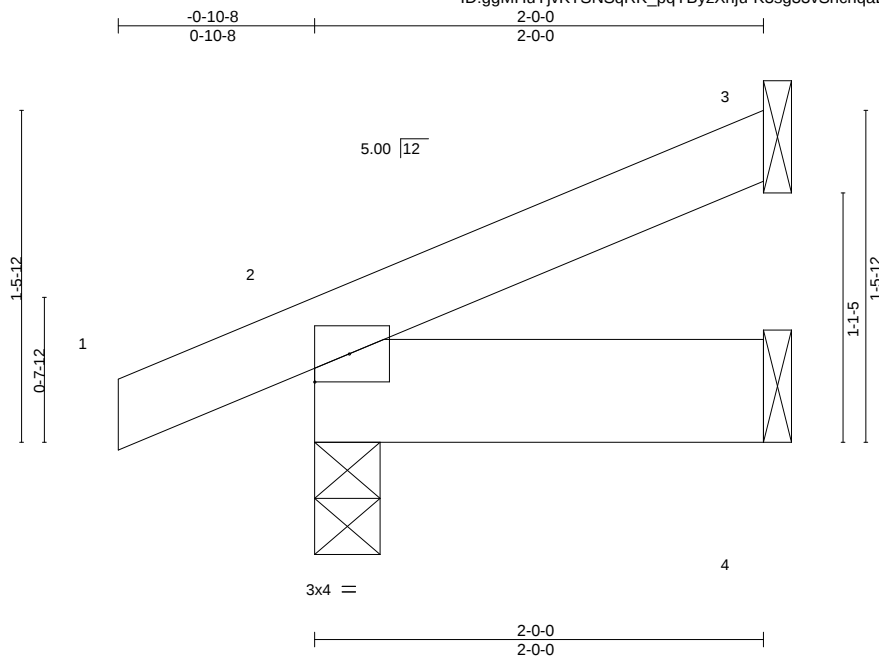
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	J1	Jack-Open	3	1	I43821898
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:29 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-K3sg33vShcnqaBb4bYAP9TKORbLe4L5laKH_IJyDGL



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	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 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 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=42(LC 12)
Max Uplift 3=22(LC 12), 2=23(LC 8)
Max Grav 3=63(LC 1), 2=205(LC 1), 4=42(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



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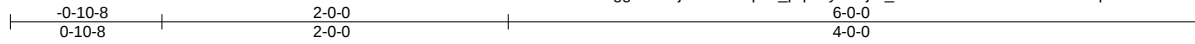
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821899
2546929	J2	Half Hip Girder	1	1		

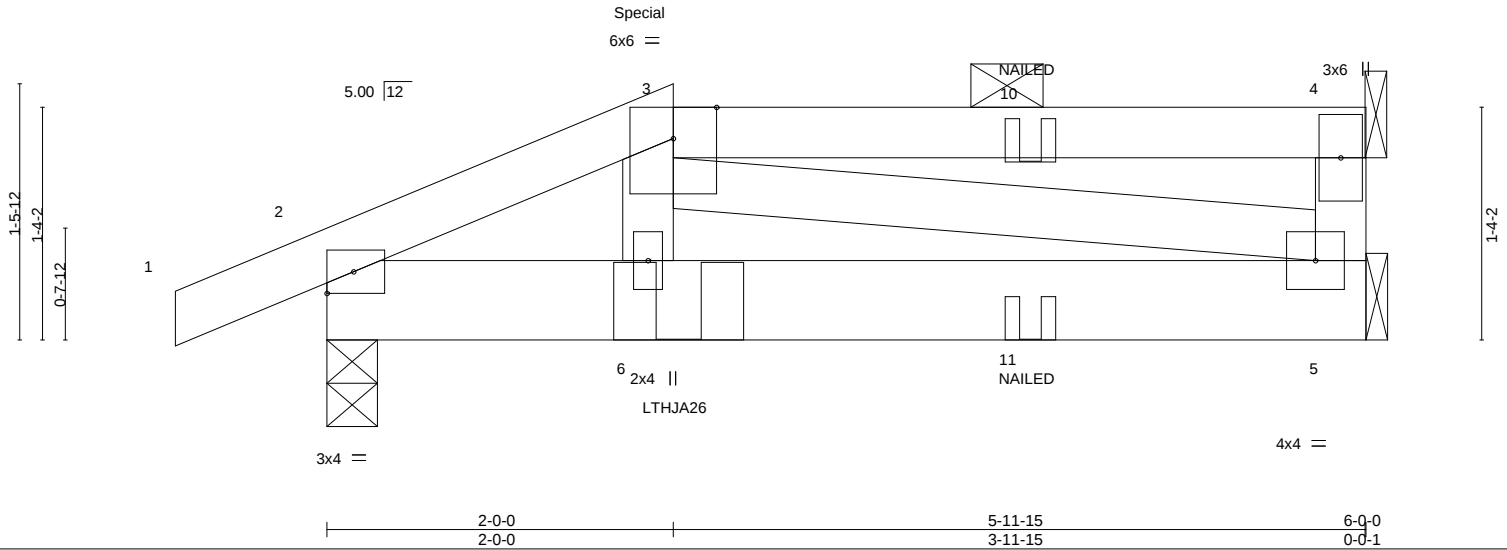
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:41 2020 Page 1

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Scale = 1:13.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.01	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=41(LC 7)
Max Uplift 2=-44(LC 4), 4=-48(LC 4)
Max Grav 5=160(LC 3), 2=421(LC 1), 4=173(LC 1)

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

TOP CHORD 2-3=-446/15
BOT CHORD 2-6=-27/385, 5-6=-34/383
WEBS 3-5=-396/27

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 2-0-6 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 61 lb up at 2-0-0 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821899
2546929	J2	Half Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-18(F) 11=-9(F)

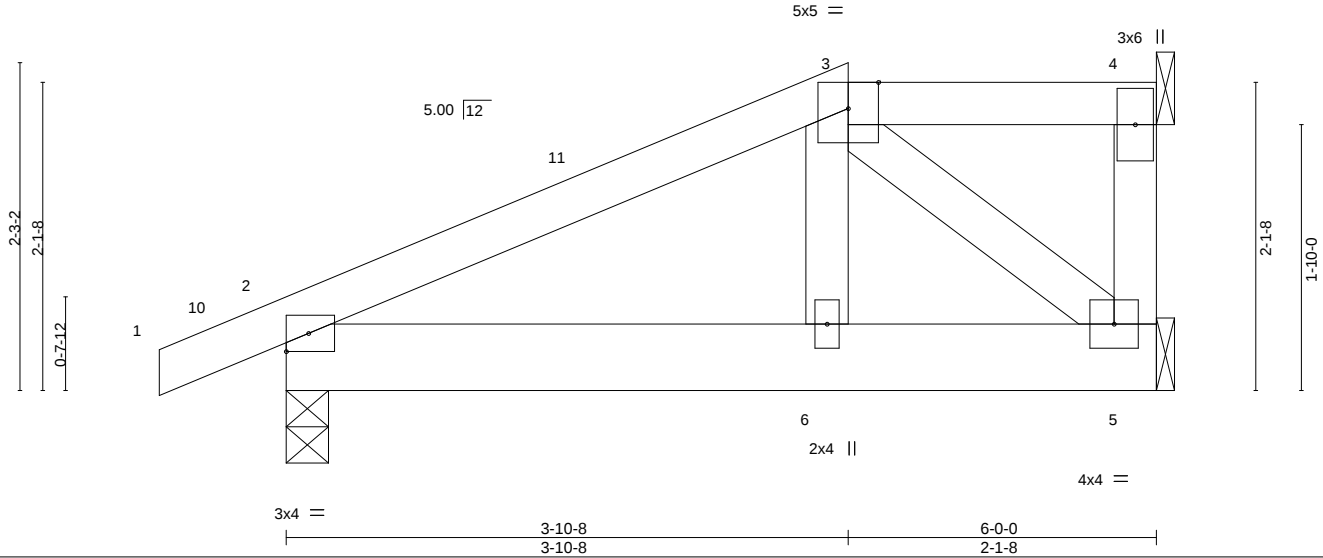
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821900
2546929	J3	Half Hip	1	1	Job Reference (optional)	

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

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ID:ggMHuYjvKTSNSqRK_pqYByzXhju-hrFpCbaVprrttrtJBXQHexTARNcg8?S2rxj3yDGKm



Scale: 3/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	6-9	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 4=Mechanical
Max Horz 2=71(LC 11)
Max Uplift 2=45(LC 12), 5=7(LC 9), 4=25(LC 8)
Max Grav 2=407(LC 1), 5=227(LC 1), 4=89(LC 1)

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

TOP CHORD 2-3=-340/86
WEBS 3-5=-327/151

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8, Exterior(2E) 3-10-8 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

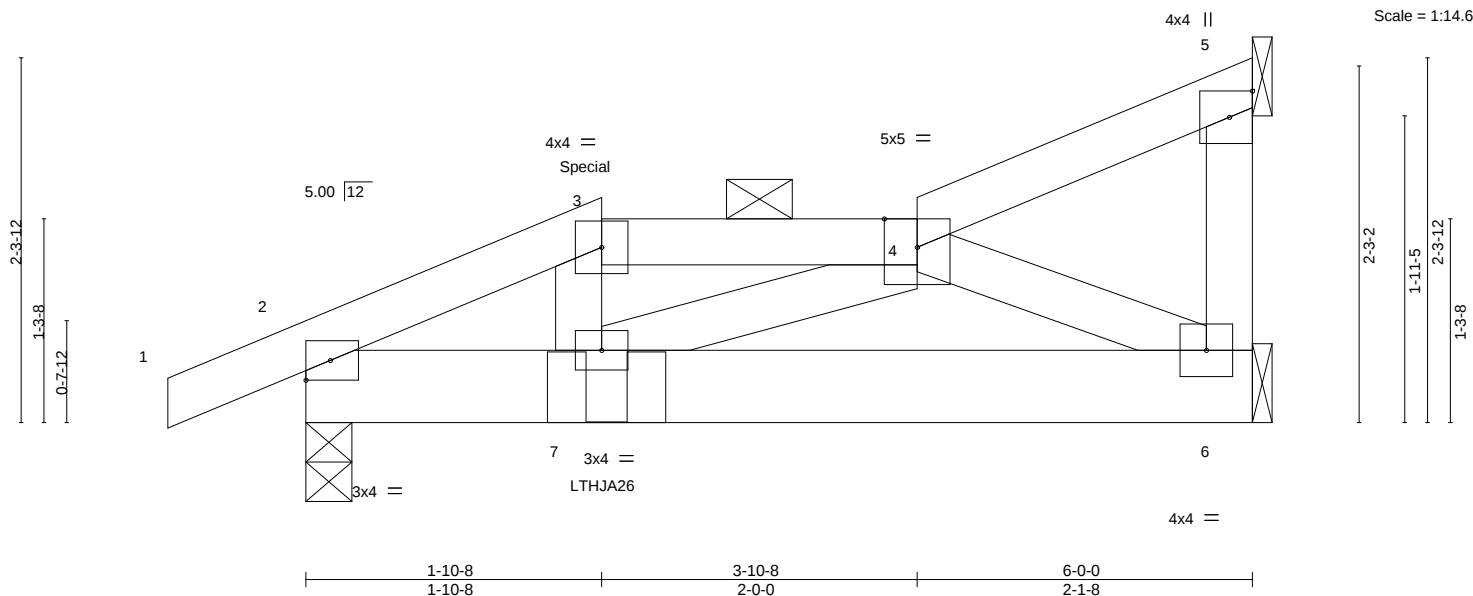
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821901
2546929	J4	Roof Special Girder	1	1	Job Reference (optional)	

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

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ID:ggMHuYjvKTSNSqRK_pqYByZXhju-2p2kswfjKMTAOZlogsmi7KmpUB7DtxEkcJYiOHYDGKh

-0-10-8	1-10-8	3-10-8	6-0-0
0-10-8	1-10-8	2-0-0	2-1-8



LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	6-7	>999	240
TCDL	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	6-7	>999	180
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP						
										Weight: 26 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=77(LC 7)
Max Uplift 6=-21(LC 8), 2=-59(LC 8), 5=-24(LC 8)
Max Grav 6=235(LC 1), 2=425(LC 1), 5=89(LC 1)

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

TOP CHORD 2-3=-458/36, 3-4=-397/45
BOT CHORD 2-7=-44/399, 6-7=-65/380
WEBS 4-6=-424/91

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 1-10-14 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 58 lb up at 1-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-5=-90, 6-8=-20



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821901
2546929	J4	Roof Special Girder	1	1	Job Reference (optional)	

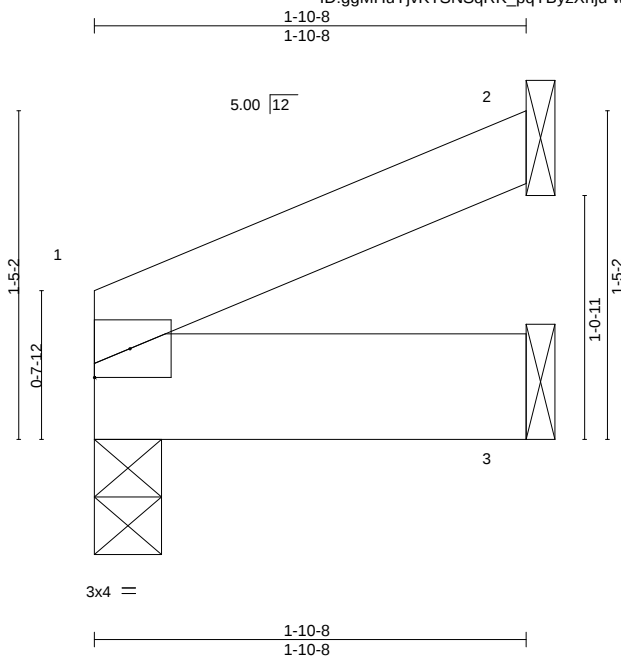
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-25(B)

Job 2546929	Truss J5	Truss Type Jack-Open	Qty 1	Ply 1	Summit/13 Woodside Job Reference (optional) I43821902
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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Scale = 1:10.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 6 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 1-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=28(LC 12)
Max Uplift 1=-2(LC 12), 2=-21(LC 12), 3=-1(LC 12)
Max Grav 1=102(LC 1), 2=62(LC 1), 3=45(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 2, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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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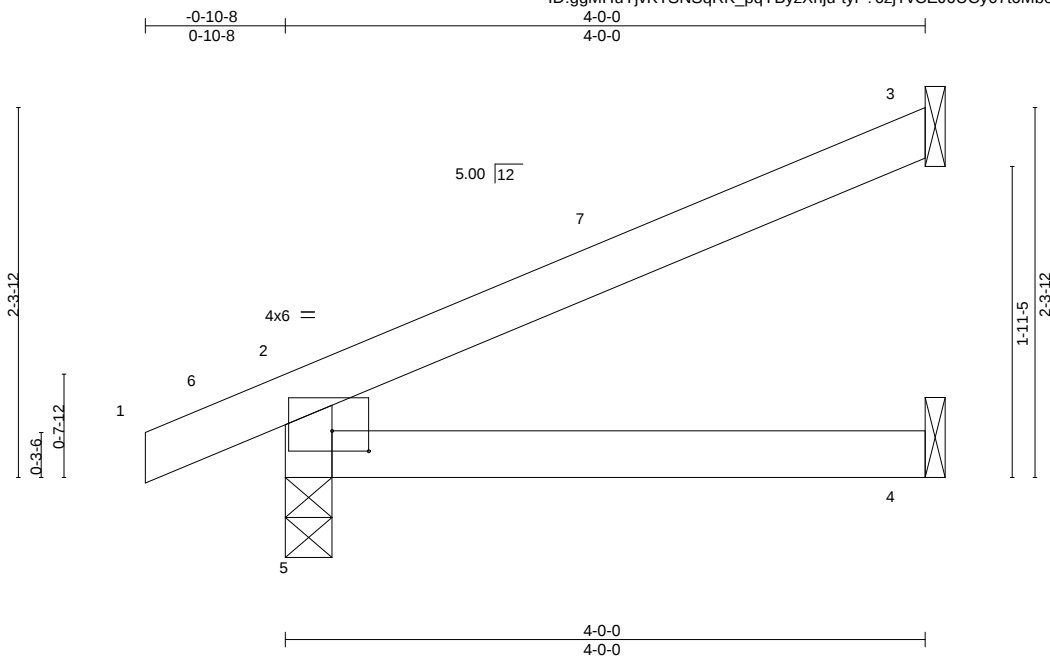
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss J6	Truss Type Jack-Open	Qty 9	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821903
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:36 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-tyP?6zjTvCEJ6UCy07t6MbcpcocBYHehc_F?1cwyDGKb



Scale = 1:14.4

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

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

LUMBER-

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=66(LC 12)
Max Uplift 3=52(LC 12), 5=28(LC 12)
Max Grav 3=150(LC 1), 4=73(LC 3), 5=313(LC 1)

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

TOP CHORD 2-5=-284/150

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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.



December 2,2020

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/13 Woodside	I43821905
2546929	J8	Roof Special Girder	1	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:38 2020 Page 1

ID:ggMHuYjvKTSNSqRk_pqYByzXhju-pLXmXfklRpU1LoML8XwaS0hARPsilYcVSZU7gpyDGKZ

0-10-8	2-0-0	4-0-0	6-0-0
0-10-8	2-0-0	2-0-0	2-0-0

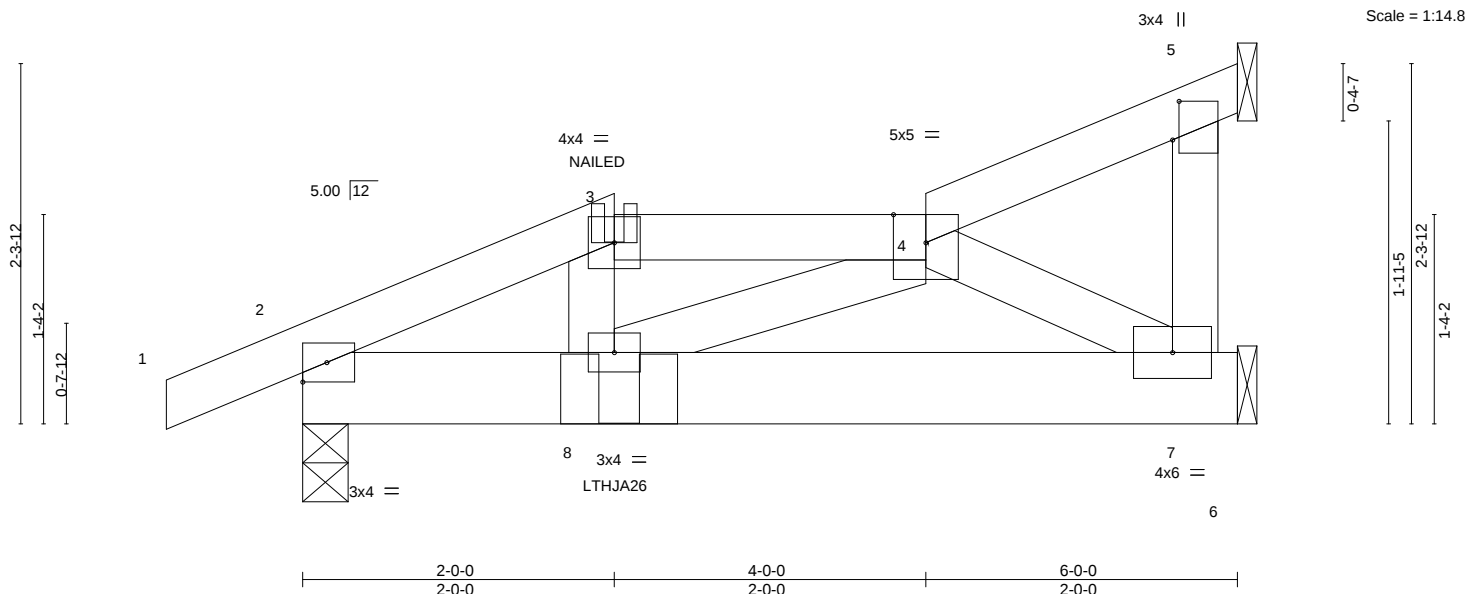


Plate Offsets (X,Y)-- [5:0-3-0,0-0-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 7=Mechanical, 2=0-3-8
Max Horz 2=74(LC 7)
Max Uplift 5=-21(LC 5), 7=-34(LC 8), 2=-85(LC 8)
Max Grav 5=78(LC 1), 7=279(LC 1), 2=488(LC 1)

FORCES.

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

TOP CHORD 2-3=-569/88, 3-4=-493/91
BOT CHORD 2-8=-86/500, 7-8=-74/377
WEBS 4-7=-438/105

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 2-0-6 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-5=-90, 6-9=-20



December 2,2020

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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821905
2546929	J8	Roof Special Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-131(F)

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821906
2546929	J9	Jack-Open	2	1	Job Reference (optional)	

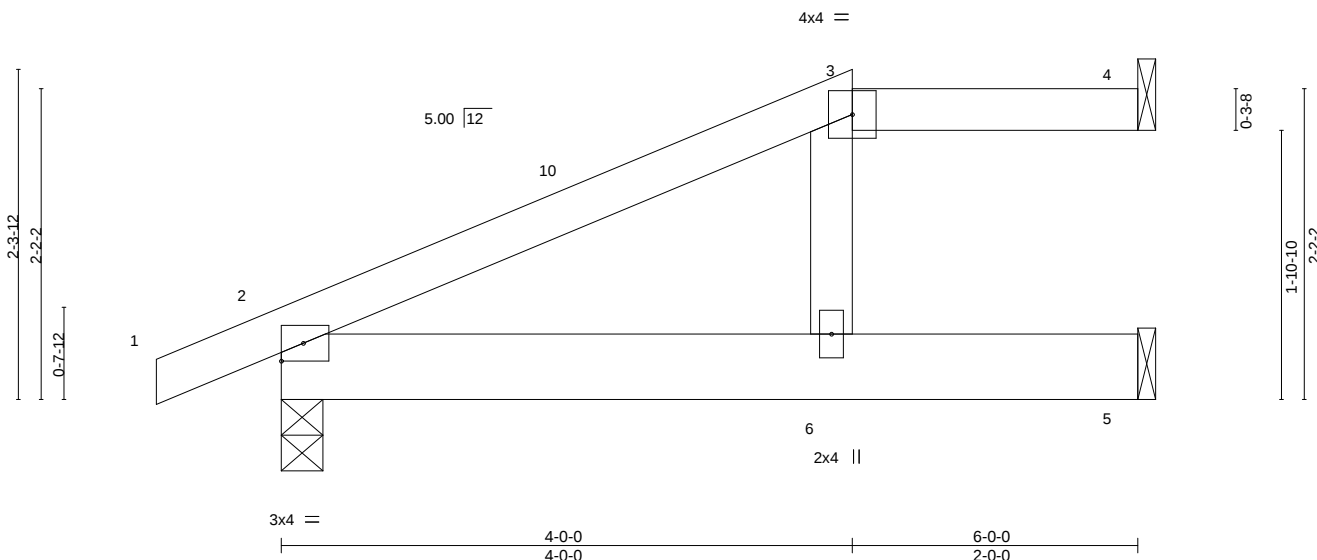
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:40 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-lkfWylm_zQklb5WjFyy2XRmUdDU8DS9CvtzEliyDGKX



Scale: 3/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.04	6-9	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.09	6-9	>825	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 21 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x6 SPF No.2		2-0-0 oc purlins: 3-4.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=69(LC 12)
Max Uplift 4=-24(LC 8), 2=-40(LC 12), 5=-12(LC 12)
Max Grav 4=87(LC 1), 2=411(LC 1), 5=234(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2E) 4-0-0 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 4, 2, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

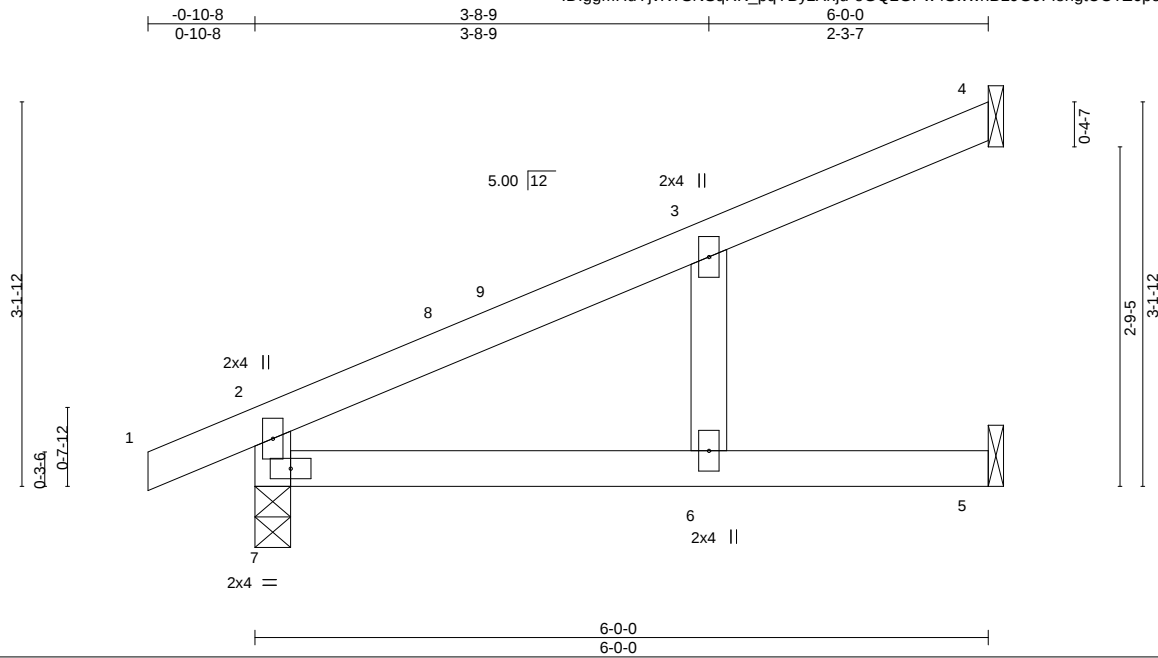
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821907
2546929	J10	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:30 2020 Page 1

ID:ggMHuYjvKTSNsQqRK_pqYByzXhju-oGQ2GPw4SwwhBL9G9FiehgUO?Z6po1up_0XHlyDGLd



Scale = 1:18.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	0.09	6-7	>790	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.17	6-7	>402	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.04	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 7=97(LC 12)
Max Uplift 4=-45(LC 12), 5=-15(LC 12), 7=-33(LC 12)
Max Grav 4=180(LC 1), 5=131(LC 1), 7=419(LC 1)

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

TOP CHORD 2-7=-319/131

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 2, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

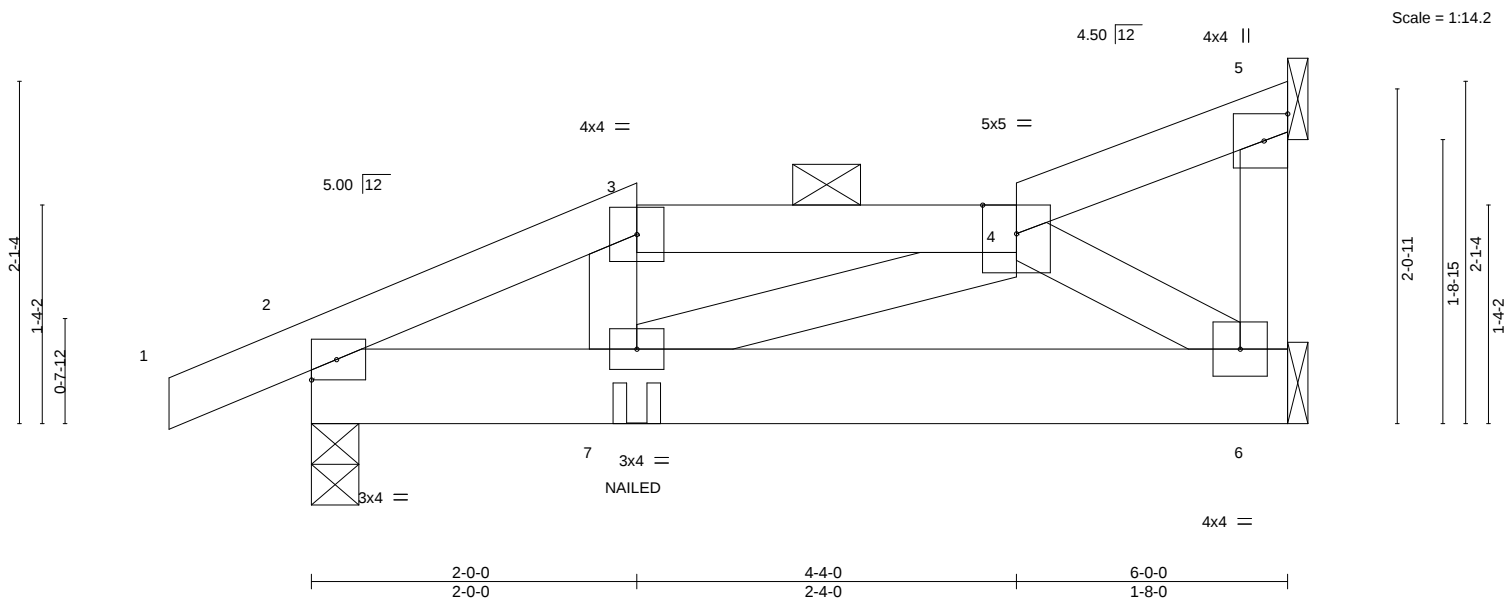
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821908
2546929	J11	Roof Special Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:31 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-GS_RTixiDD2YpVktJzDtEuPjip??YFi22em4qCyDGLc

-0-10-8	2-0-0	4-4-0	6-0-0
0-10-8	2-0-0	2-4-0	1-8-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	7	>999	240	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	6-7	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=69(LC 7)
Max Uplift 6=-40(LC 8), 2=-88(LC 8), 5=-19(LC 5)
Max Grav 6=286(LC 1), 2=490(LC 1), 5=68(LC 1)

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

TOP CHORD 2-3=-574/91, 3-4=-500/95
BOT CHORD 2-7=-86/504, 6-7=-69/349
WEBS 4-6=-421/101

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-5=-90, 6-8=-20
- Concentrated Loads (lb)
Vert: 7=-121(B)



December 2,2020

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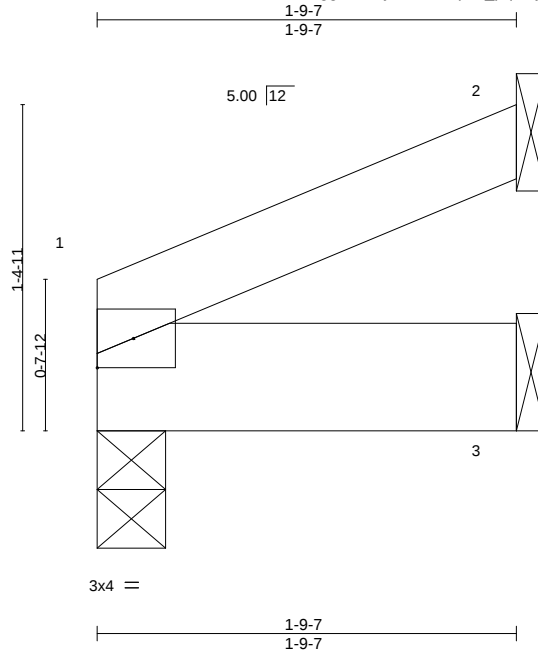
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	J12	Jack-Open	1	1	I43821909
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:32 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-keYph5yK_XAPRfJfGgk6m5ywCpNBHirBGIVeMeyDGLb



Scale = 1:9.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00 6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 6 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 1-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=27(LC 33)
Max Uplift 2=-20(LC 33), 3=-1(LC 12)
Max Grav 1=266(LC 1), 2=58(LC 1), 3=43(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 47 lb up at 0-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-169



December 2,2020

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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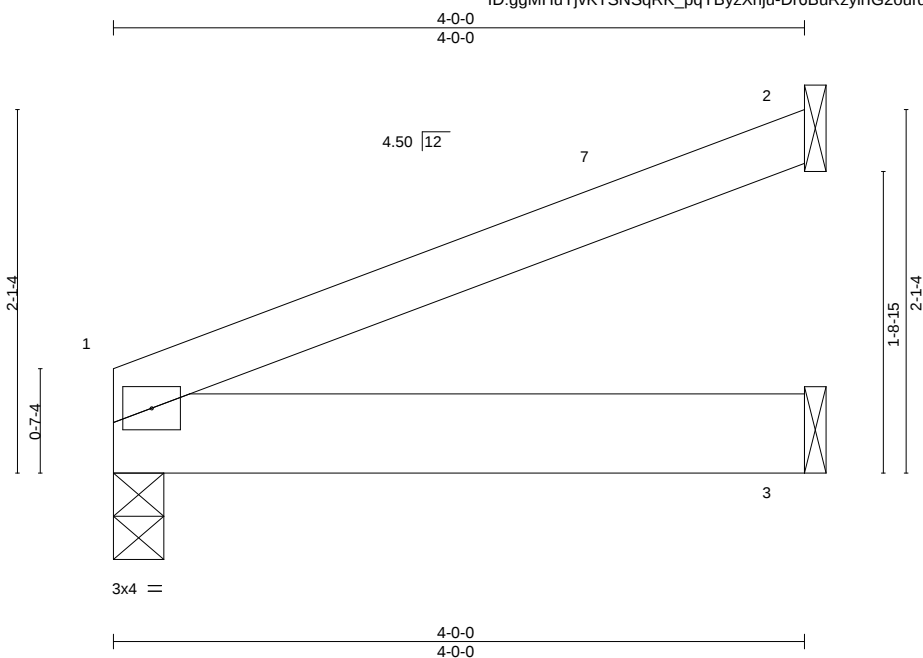
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss J13	Truss Type Jack-Open	Qty 1	Ply 1	Summit/13 Woodside Job Reference (optional) I43821910
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:33 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Dr6BuRzYlrlG2ourqOFLJJV1PCgY095LVyFBu4yDGLa



Scale = 1:13.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01	3-6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	3-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=54(LC 12)
Max Uplift 1=-12(LC 12), 2=-43(LC 12)
Max Grav 1=217(LC 1), 2=135(LC 1), 3=93(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 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.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

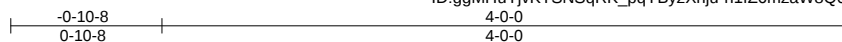
Job 2546929	Truss J14	Truss Type Jack-Open	Qty 3	Ply 1	Summit/13 Woodside Job Reference (optional) I43821911
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:34 2020 Page 1

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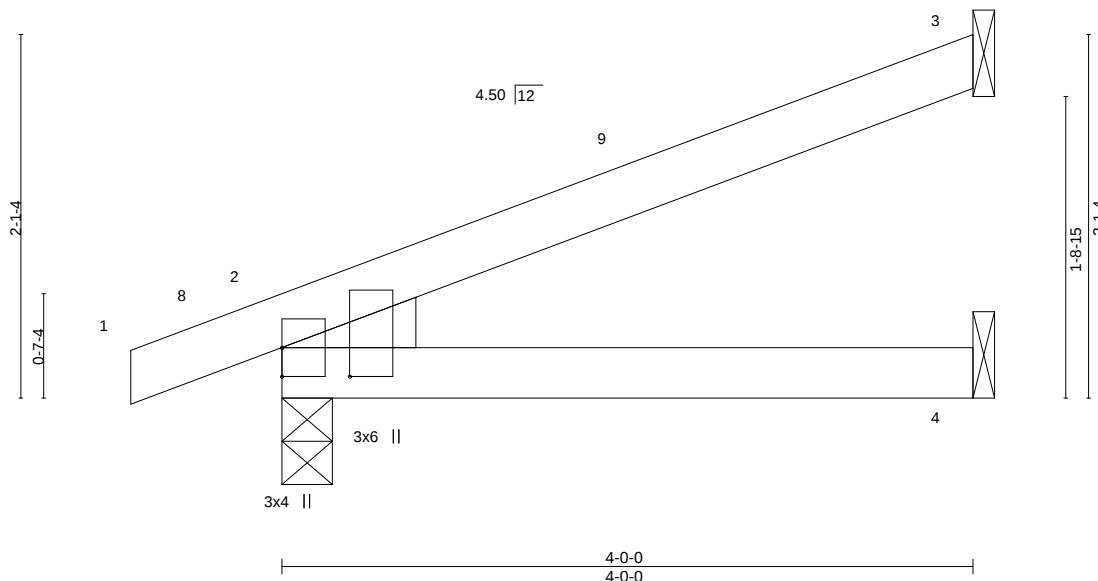


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]

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

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=66(LC 8)

Max Uplift 3=-44(LC 12), 2=-40(LC 8)

Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

FORCES.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



December 2,2020

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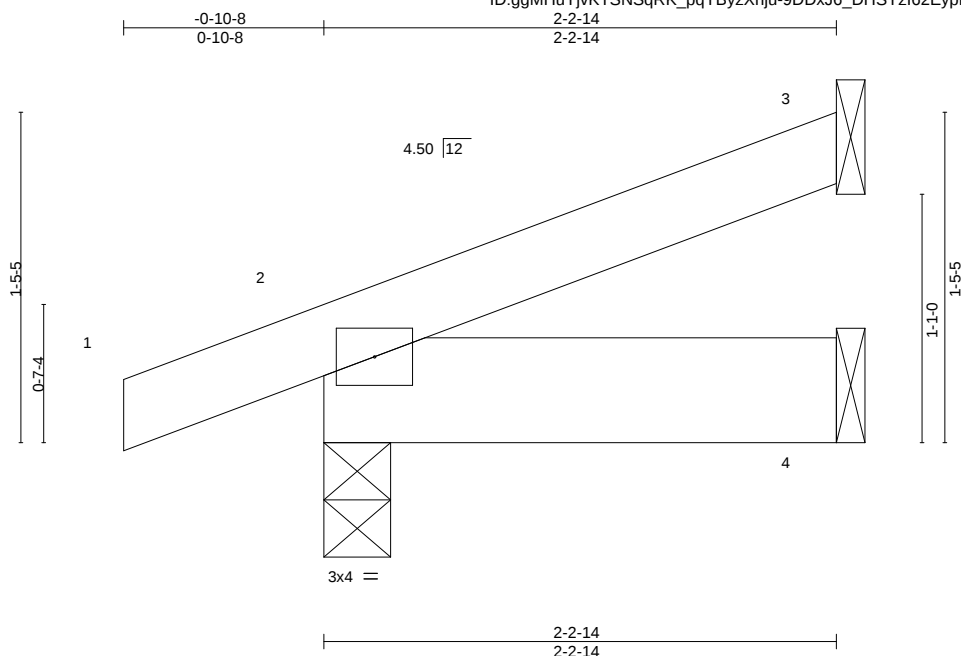
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss J15	Truss Type Jack-Open	Qty 2	Ply 1	Summit/13 Woodside Job Reference (optional) I43821912
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:35 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-9DDxJ6_DHSYzl62EypHpOkaPw0OvU3aezGklzzyDGLY



Scale = 1:10.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	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: 8 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 2-2-14 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=43(LC 8)
Max Uplift 3=-22(LC 12), 2=-39(LC 8)
Max Grav 3=67(LC 1), 2=214(LC 1), 4=48(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



December 2,2020

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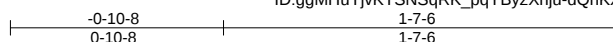
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821913
2546929	J16	Jack-Open	1	1	Job Reference (optional)	

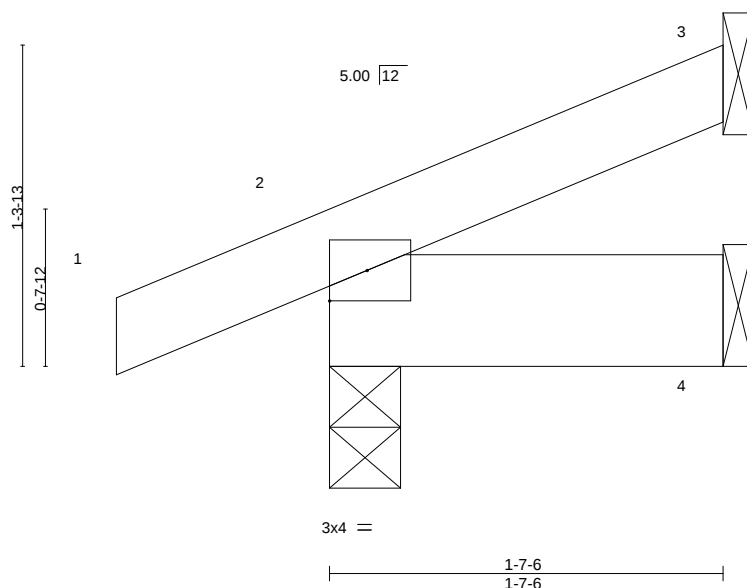
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:36 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-dQnKXS?r2mgqvGdQVWo2xx6agQkPDWqnBwTrVPyDGLX



Scale = 1:9.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.01	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: 6 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 1-7-6 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=36(LC 12)
Max Uplift 3=-17(LC 12), 2=-24(LC 8)
Max Grav 3=48(LC 1), 2=188(LC 1), 4=32(LC 3)

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



December 2,2020

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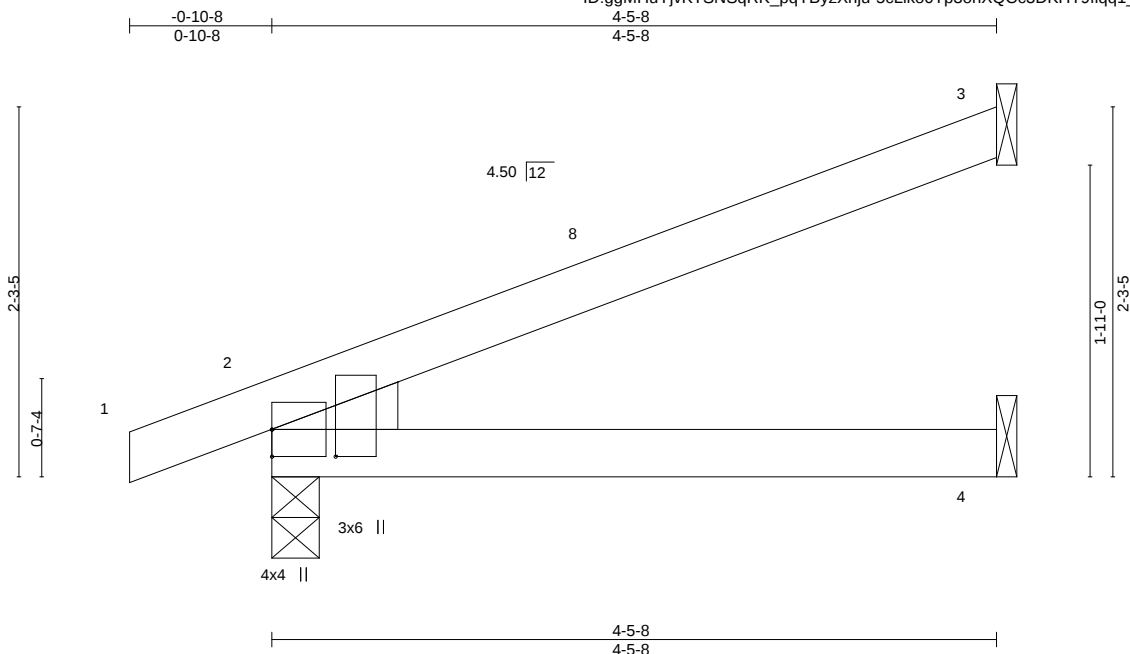
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss J17	Truss Type Jack-Open	Qty 3	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821914
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:37 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-5cLiko0Tp3ohXQCc3DKHT9fiqq1_yz4wQaDP1ryDGLW



Scale = 1:14.2

Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	4-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

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=72(LC 8)

Max Uplift 3=50(LC 12), 2=-41(LC 8)

Max Grav 3=166(LC 1), 2=328(LC 1), 4=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



December 2,2020

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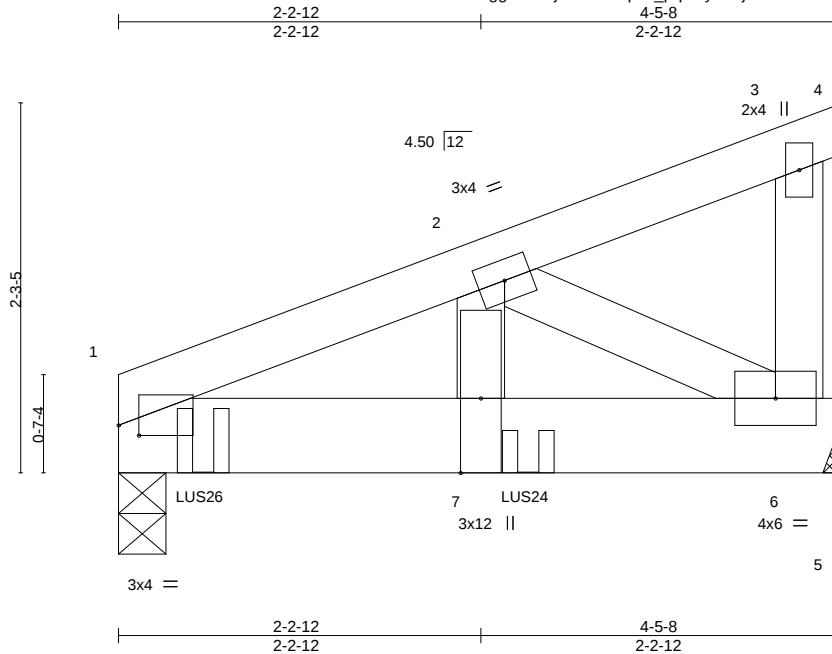
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821915
2546929	J18	Jack-Closed Girder	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:38 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Zov4x805aNwY9anpdxrW0MCwhDOWhOr4fEyyZlyDGLV



Scale = 1:14.2

Plate Offsets (X,Y)--	[1:0-1-8,0-0-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.01	7	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.01	7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 6=Mechanical
Max Horz 1=71(LC 7)
Max Uplift 1=-193(LC 8), 6=-136(LC 8)
Max Grav 1=1290(LC 1), 6=675(LC 1)

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

TOP CHORD 1-2=-1009/188
BOT CHORD 1-7=-187/931, 6-7=-187/931
WEBS 2-7=-124/648, 2-6=-1057/227

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=193, 6=136.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 0-6-4 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-6-4 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-40, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-634(B) 10=-854(B)



December 2,2020

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

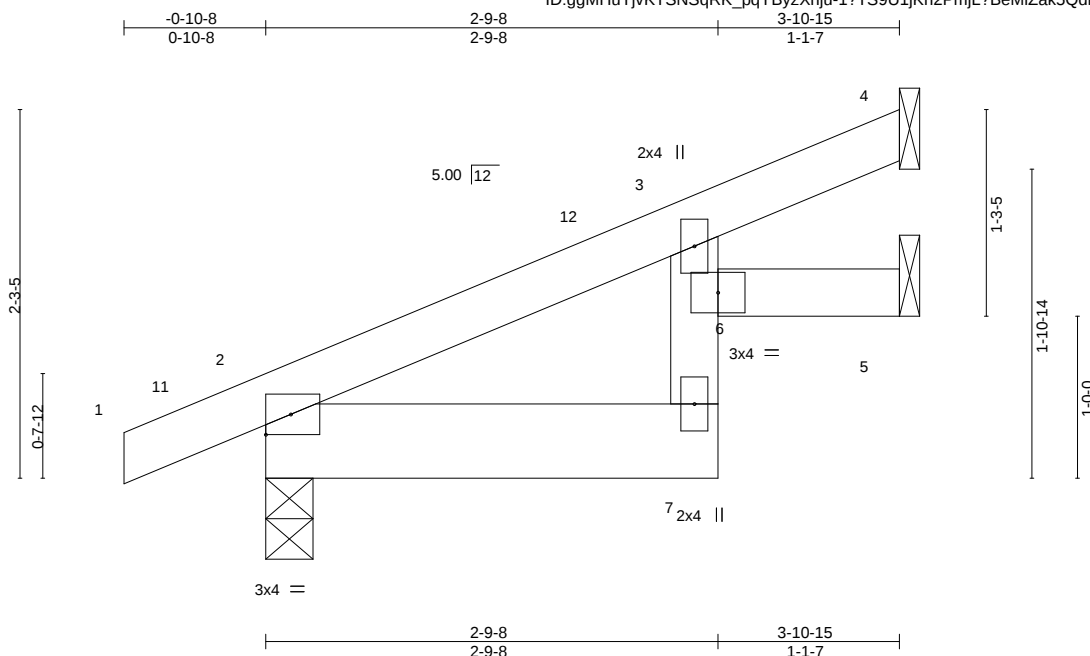
Job 2546929	Truss J19	Truss Type Jack-Open	Qty 2	Ply 1	Summit/13 Woodside Job Reference (optional) I43821916
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:30:39 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1?TS9U1jKh2PmjL?BeMIZak5QdiEQsaDtuiW6kyDGLU



Scale = 1:14.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.01	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.01	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-7: 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) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=70(LC 12)
Max Uplift 4=-25(LC 12), 2=-27(LC 12), 5=-13(LC 12)
Max Grav 4=101(LC 1), 2=299(LC 1), 5=102(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



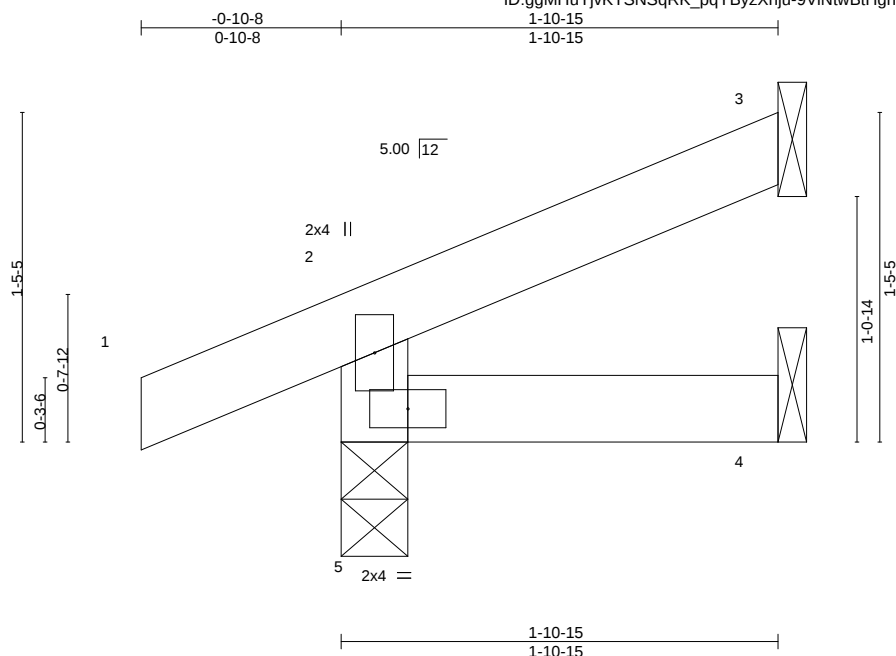
December 2,2020

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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Chesterfield, MO 63017



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MR							Weight: 6 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 1-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
 Max Horz 5=35(LC 12)
 Max Uplift 3=-23(LC 12), 5=-28(LC 8)
 Max Grav 3=57(LC 1), 4=31(LC 3), 5=215(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss J22	Truss Type Jack-Open	Qty 11	Ply 1	Summit/13 Woodside I43821919
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:15 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-we3ioT1sla5F6w/C?B0AE8q8yvs9AW9UQPMeyDGKw

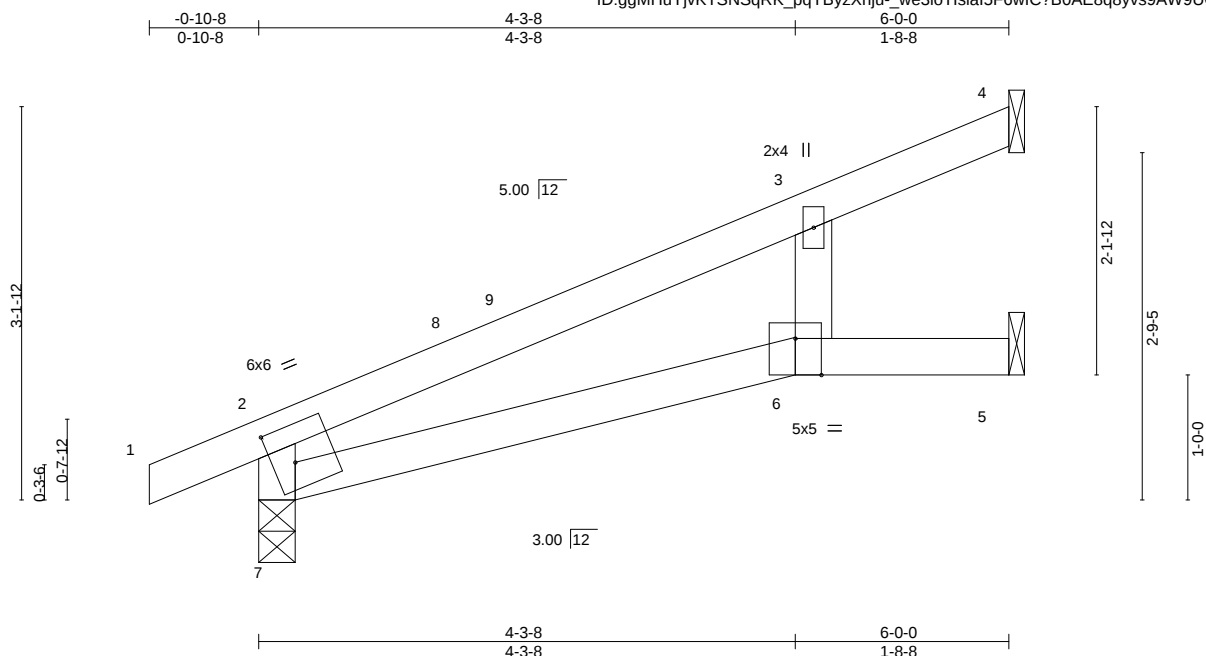


Plate Offsets (X,Y)-- [2:0-1-14,0-0-0], [2:0-2-2,0-3-8], [6:0-2-8,Edge], [7:0-0-11,0-1-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.08	6-7	>832	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.16	6-7	>427	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.04	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 17 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 7=96(LC 12)
Max Uplift 4=-35(LC 12), 5=-25(LC 12), 7=-33(LC 12)
Max Grav 4=174(LC 1), 5=136(LC 1), 7=419(LC 1)

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

TOP CHORD 2-7=-337/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 2,2020

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Chesterfield, MO 63017

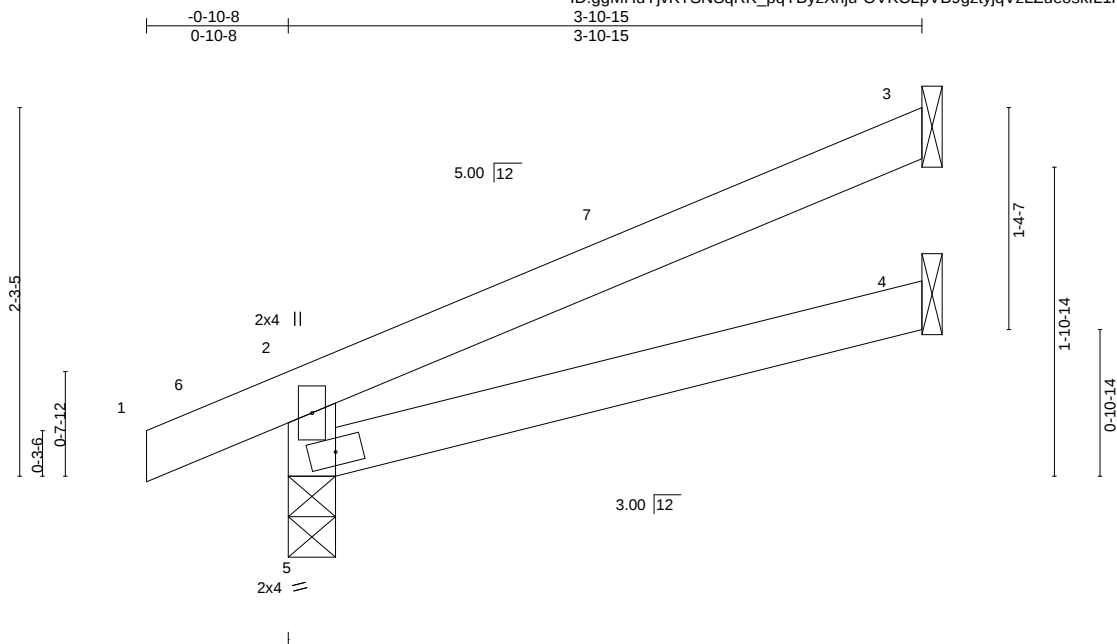
Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	J23	Jack-Open	2	1	I43821920
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:18 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-OVKCLpVB9gztjqVzLZueoskIL1P3VEzrSe4zzyDGKt



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 11 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 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=64(LC 12)
Max Uplift 3=51(LC 12), 5=27(LC 12)
Max Grav 3=145(LC 1), 4=72(LC 3), 5=308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-280/148

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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Chesterfield, MO 63017

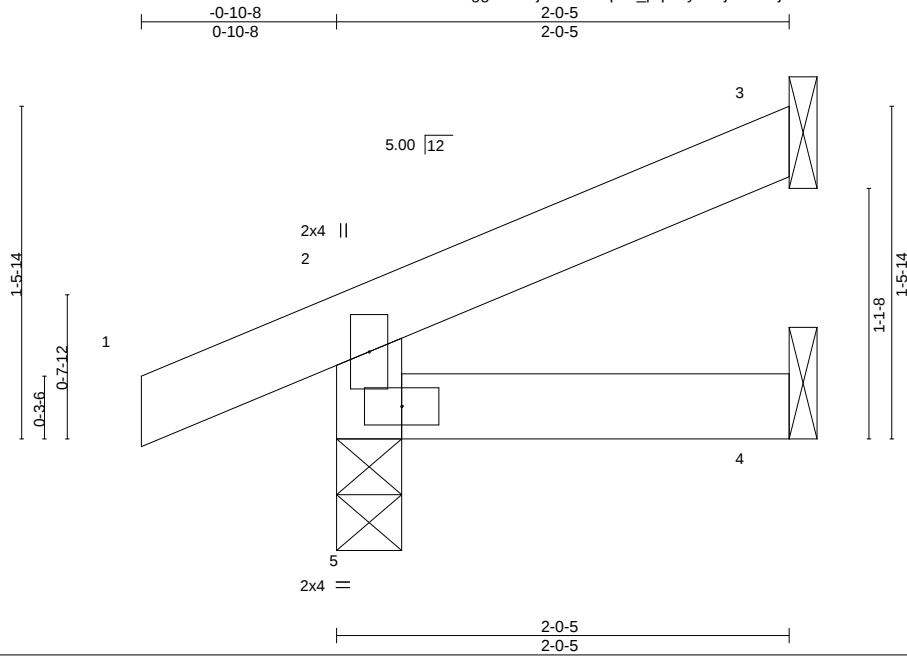
Job 2546929	Truss J25	Truss Type Jack-Open	Qty 1	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821922
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:22 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-HGZjABYhCuTJRK8GCAdqoe0RizR??JDYm4cH6kyDGKp



Scale = 1:10.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=36(LC 12)
Max Uplift 3=24(LC 12), 5=27(LC 8)
Max Grav 3=60(LC 1), 4=32(LC 3), 5=218(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821923
2546929	LG1	GABLE	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:41 2020 Page 1

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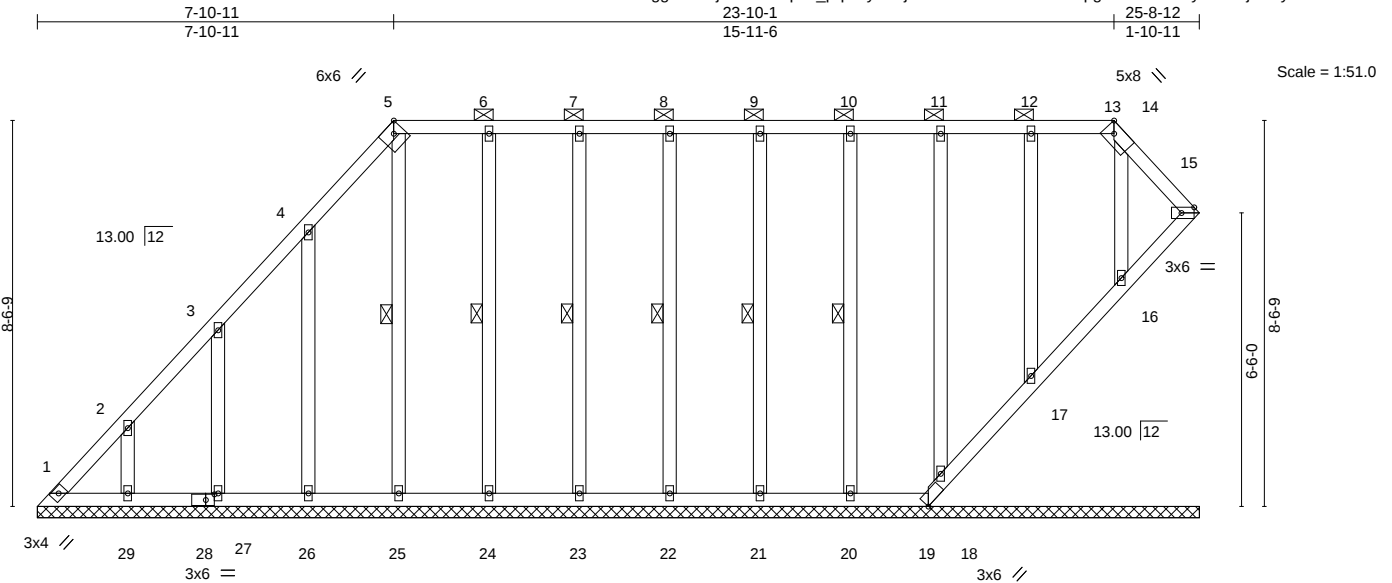


Plate Offsets (X,Y)--		[5:0-2-9,Edge], [13:0-2-9,Edge], [13:0-1-5,0-1-3], [14:0-2-9,0-0-0], [15:Edge,0-1-8], [28:0-2-5,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) -0.00 15 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 153 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, except 2'-0" oc purlins (6'-0" max.): 5-13.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 1 Row at midpt 10-20, 9-21, 8-22, 5-25, 6-24, 7-23

REACTIONS.

All bearings 25-8-12.
(lb) - Max Horz 1=262(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 25, 24, 23 except 29=-113(LC 12), 27=-111(LC 12), 26=-115(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 29, 27, 26, 25, 24, 23

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-323/233

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-11, Exterior(2R) 7-10-11 to 12-0-0, Interior(1) 12-0-0 to 23-10-1, Exterior(2E) 23-10-1 to 25-6-5 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 25, 24, 23 except (jt=lb) 29=113, 27=111, 26=115.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16, 17, 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020

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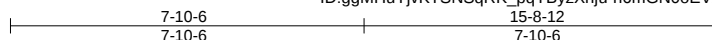
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	LG2	GABLE	1	1	I43821924
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:42 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-h6mGN0oEV2_TqPg6NN_Wcsrs_1GShKMVNBSPayDGKV



4x4 =

Scale = 1:51.2

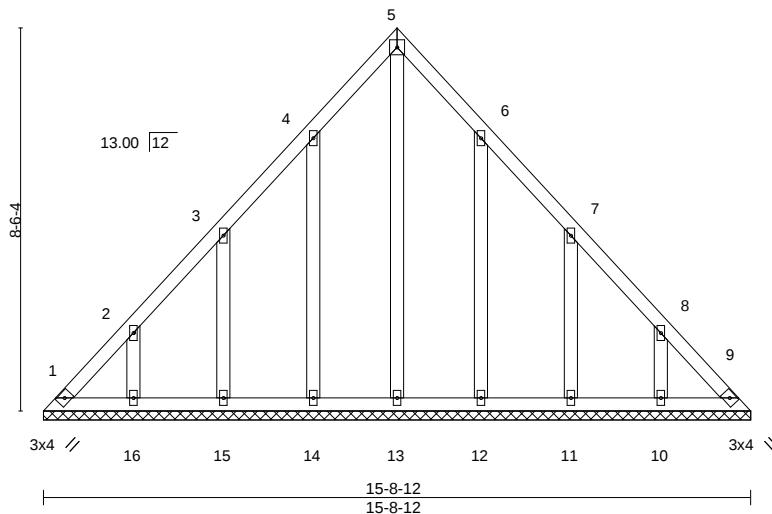


Plate Offsets (X,Y)--		[2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-8-12.
(lb) - Max Horz 1=-196(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-112(LC 13), 11=-115(LC 13), 12=-106(LC 13),
16=-113(LC 12), 15=-114(LC 12), 14=-108(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-262/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=112, 11=115, 12=106, 16=113, 15=114, 14=108.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821925
2546929	LG3	GABLE	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:44 2020 Page 1
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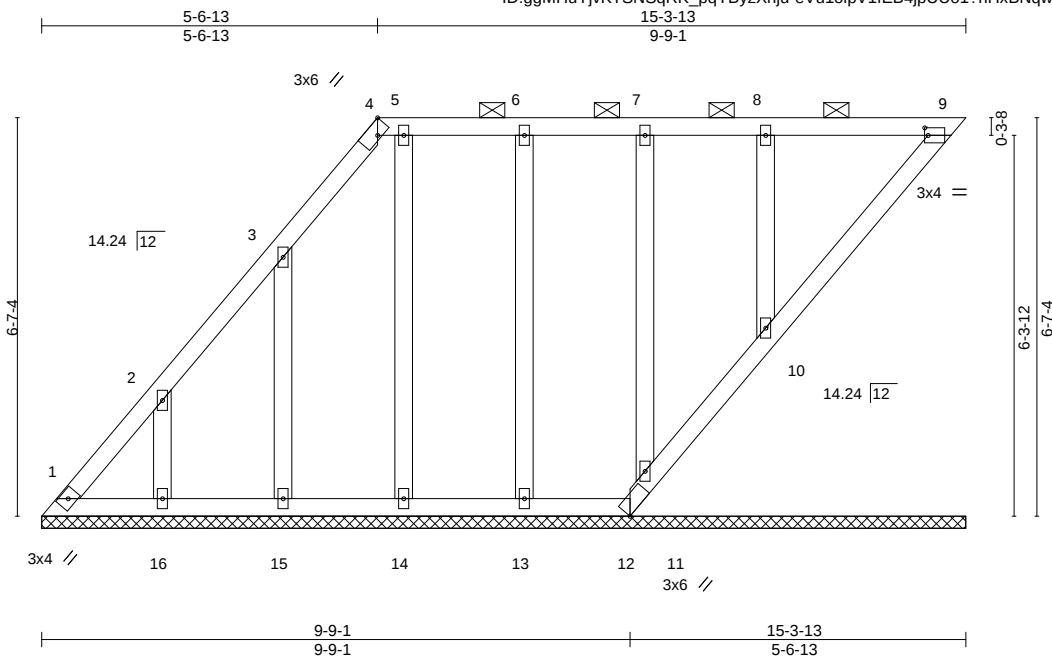


Plate Offsets (X,Y)--		[4:0-2-11,Edge], [9:0-0-11,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.14	in (loc) l/defl L/d
TCDL 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) n/a - n/a 999
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 9 n/a n/a
	Code IRC2018/TPI2014		
			PLATES MT20
			GRIP 197/144
			Weight: 72 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, except 2'-0" oc purlins (6'-0" max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

All bearings 15-3-13.
(lb) - Max Horz 1=233(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=-134(LC 12), 15=-122(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11 except 16=256(LC 19), 10=349(LC 1)

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

TOP CHORD 1-2=-251/213
WEBS 8-10=-275/73

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-6-13, Exterior(2R) 5-6-13 to 8-6-13, Interior(1) 8-6-13 to 15-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 13, 11, 10 except (jt=lb) 16=134, 15=122.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss LG4	Truss Type GABLE	Qty 1	Ply 1	Summit/13 Woodside Job Reference (optional)	I43821926
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:45 2020 Page 1
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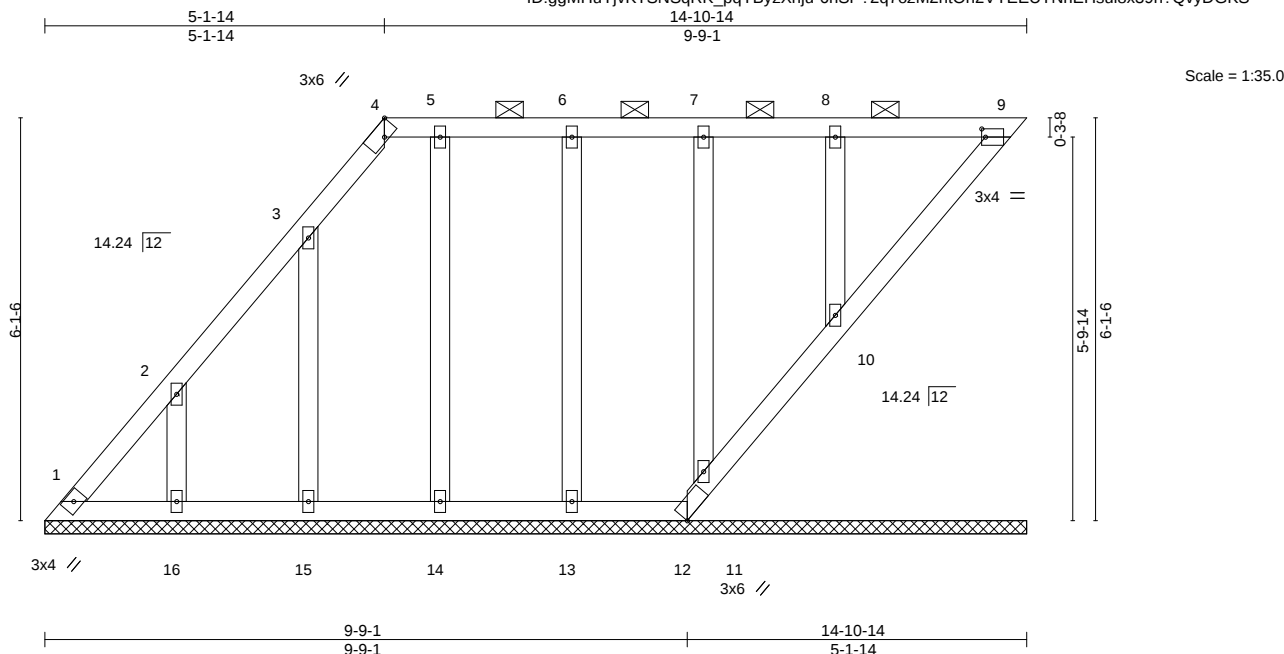


Plate Offsets (X,Y)-- [4:0-2-11,Edge], [9:0-0-11,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00 9 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 68 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.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 14-10-14.
(lb) - Max Horz 1=215(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=138(LC 12), 15=104(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11 except 16=260(LC 19), 10=309(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-1-14, Exterior(2R) 5-1-14 to 8-0-0, Interior(1) 8-0-0 to 14-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 13, 11, 10 except (jt=lb) 16=138, 15=104.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020

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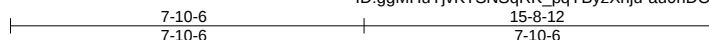
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside
2546929	LG5	GABLE	1	1	I43821927
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:46 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-au0nDOrIZGUVJ0ztcd3Tmi0Y_edOd8L4HpQYyLyDGKR



4x4 =

Scale = 1:51.2

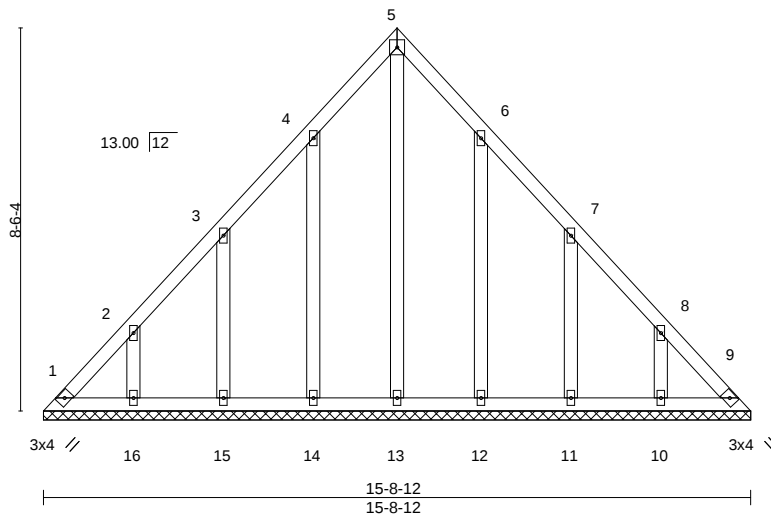


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 78 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-8-12.
(lb) - Max Horz 1=-196(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-112(LC 13), 11=-115(LC 13), 12=-106(LC 13),
16=-113(LC 12), 15=-114(LC 12), 14=-108(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-262/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=112, 11=115, 12=106, 16=113, 15=114, 14=108.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2020

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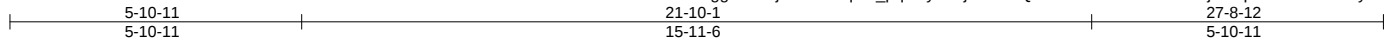
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2546929	Truss LG6	Truss Type GABLE	Qty 1	Ply 1	Summit/13 Woodside I43821928
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:47 2020 Page 1
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Scale = 1:46.5

Plate Offsets (X,Y)--	[4:0-2-9,Edge], [12:0-2-9,Edge], [22:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 140 lb	FT = 20%

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

REACTIONS. All bearings 27-8-12.
(lb) - Max Horz 1=-145(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except 27=-122(LC 12),
28=-107(LC 12), 17=-122(LC 13), 16=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 28, 21, 20, 19, 18, 16 except
27=257(LC 19), 17=257(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-10-11, Exterior(2R) 5-10-11 to 9-10-6, Interior(1) 9-10-6 to 21-10-1, Exterior(2R) 21-10-1 to 25-10-6, Interior(1) 25-10-6 to 27-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except (jt=lb) 27=122, 28=107, 17=122, 16=108.
- This truss 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.



December 2,2020

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/13 Woodside
2546929	LG7	GABLE	1	1	I43821929
Job Reference (optional)					

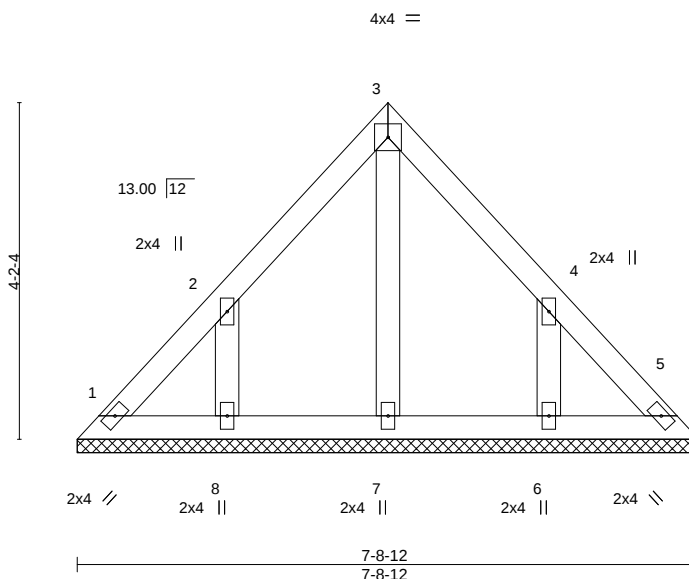
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Dec 1 17:31:48 2020 Page 1

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3-10-6 3-10-6 7-8-12 3-10-6

Scale = 1:28.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-8-12.
(lb) - Max Horz 1=-92(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 12), 6=-126(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=261(LC 19), 6=261(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 3-10-6, Exterior(2R) 3-10-6 to 6-10-6, Interior(1) 6-10-6 to 7-4-12 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
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=126, 6=126.
- This truss 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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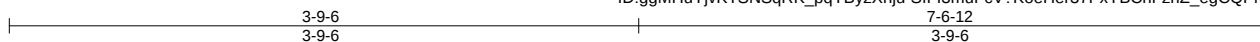
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/13 Woodside	I43821931
2546929	V2	Valley	1	1	Job Reference (optional)	

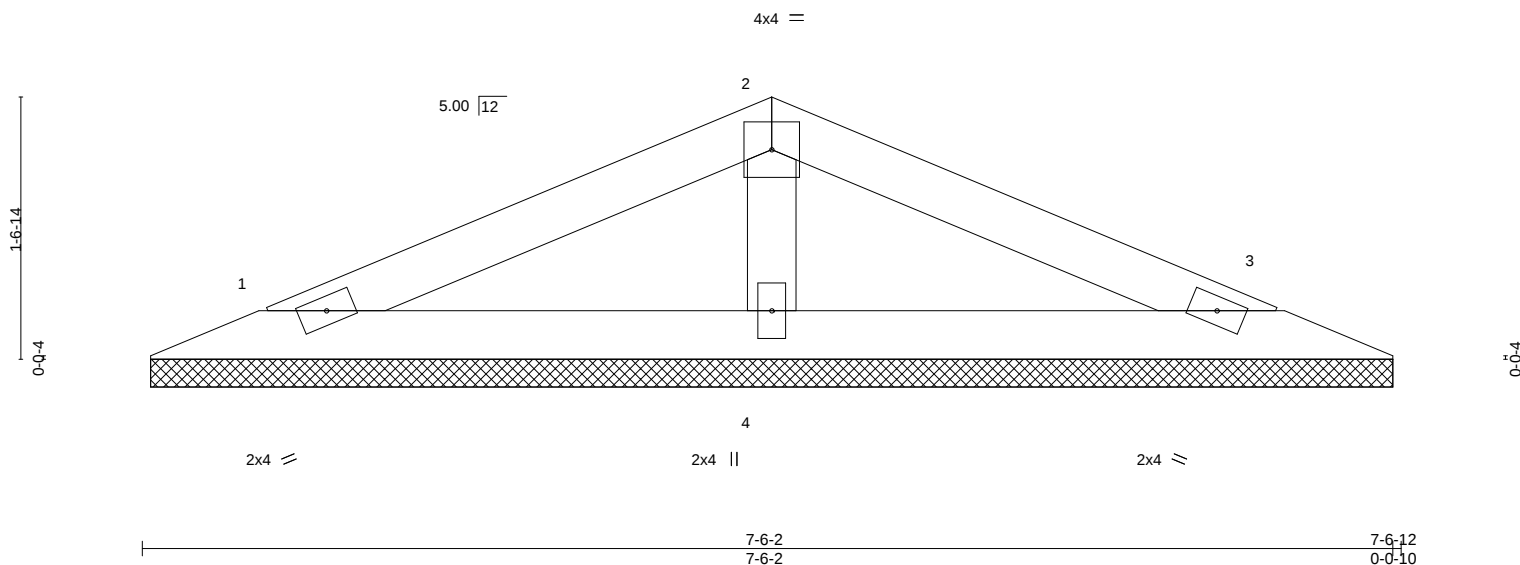
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Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 17 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=7-5-8, 3=7-5-8, 4=7-5-8
Max Horz 1=-20(LC 17)
Max Uplift 1=-25(LC 12), 3=-28(LC 13)
Max Grav 1=167(LC 1), 3=167(LC 1), 4=331(LC 1)

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

WEBS 2-4=-256/136

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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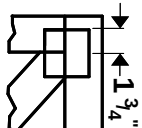
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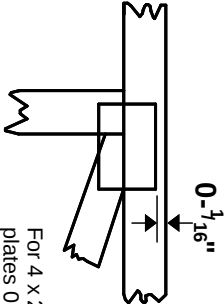
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

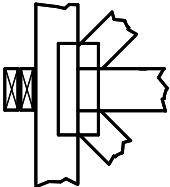
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



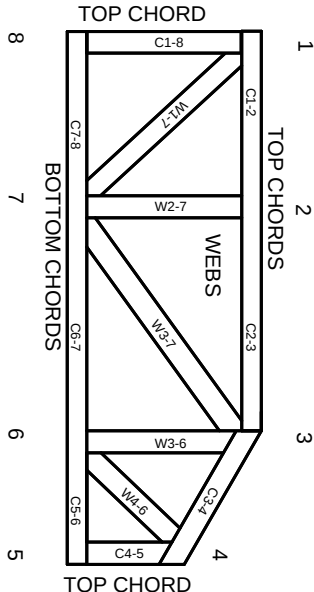
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 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.