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

11/16/2020

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

Re: 2523903
8 WOODSIDE RIDGE/ JULIETTE

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: I43505908 thru I43505972

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

Missouri COA: Engineering 001193


November 5,2020

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 | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A1 | HIP GIRDER | 1 | 2 | I43505908 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:13 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-hPXR1I4VFLBjuK6o2iyy0sZBpZvxiAsMT1OzLKyMI6m

**RELEASE FOR CONSTRUCTION**
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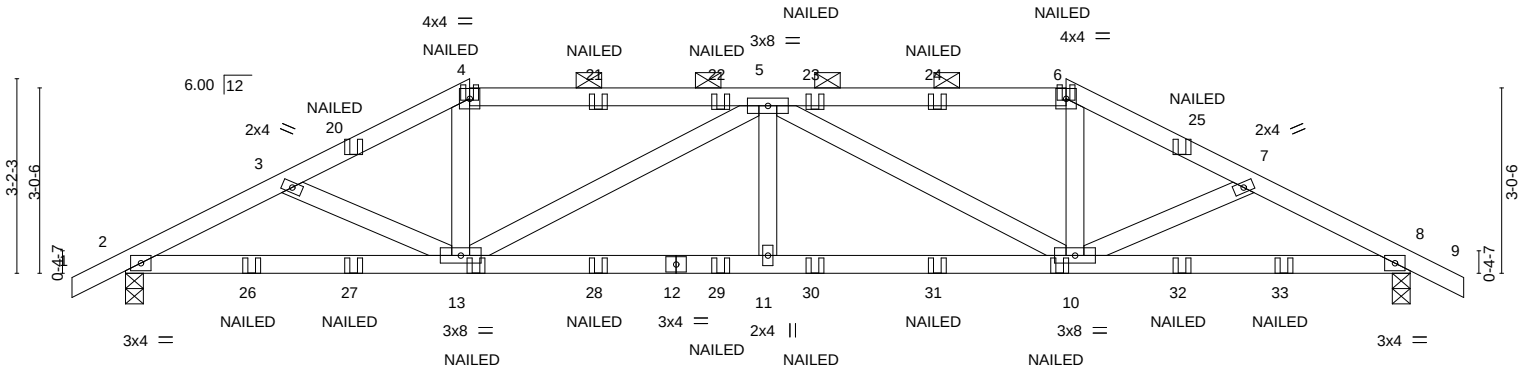
| 0-10-8 | 2-8-11 | 5-7-8 | 10-6-0 | 15-4-8 | 18-3-5 | 21-0-0 | 21-10-8 |
|---|---|---|---|---|---|---|---|
| 0-10-8 | 2-8-11 | 2-10-13 | 4-10-8 | 4-10-8 | 2-10-13 | 2-8-11 | 0-10-8 |

Scale = 1:37.7




| 5-7-8 | 10-6-0 | 15-4-8 | 21-0-0 |
|---|---|---|---|
| 5-7-8 | 4-10-8 | 4-10-8 | 5-7-8 |

| 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 | 0.23 | Vert(LL) | -0.06 | 11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.11 | 11 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.11 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MS | | | | | | | Weight: 159 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8
Max Horz 2=32(LC 26)
Max Uplift 2=-87(LC 8), 8=-87(LC 9)
Max Grav 2=1408(LC 1), 8=1408(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2524/185, 3-4=-2372/184, 4-5=-2086/175, 5-6=-2086/175, 6-7=-2372/184, 7-8=-2523/186
BOT CHORD 2-13=-159/2239, 11-13=-217/2749, 10-11=-217/2749, 8-10=-129/2239
WEBS 4-13=0/674, 5-13=-810/111, 5-11=0/266, 5-10=-810/111, 6-10=0/674

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 2 and 87 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-6=-70, 6-9=-70, 14-17=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020

Continued on page 2



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A1 | HIP GIRDER | 1 | 2 | I43505908 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:13 2020 Page 2
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-hPXR1I4VFLBjuK6o2iyy0sZBpZvxiAsMT1OzLKyMI6m

**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 4=-50(F) 6=-50(F) 13=-30(F) 10=-30(F) 21=-50(F) 22=-50(F) 23=-50(F) 24=-50(F) 26=-59(F) 27=-101(F) 28=-30(F) 29=-30(F) 30=-30(F) 31=-30(F) 32=-101(F) 33=-59(F)

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A2 | Hip | 1 | 1 | I43505909 |

Job Reference (optional)

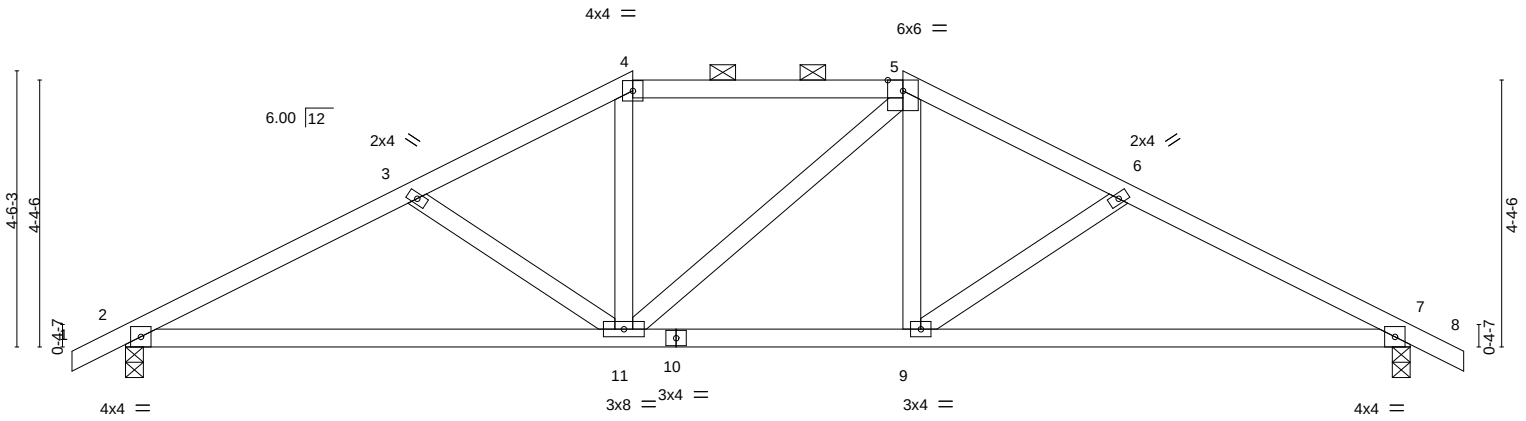
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:14 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-9b5pEe470fJaVUh_bPTBY46LxzD?RdFVhh8WtmyMI6l



| 0-10-8 | 4-9-3 | 8-3-8 | 12-8-8 | 16-2-13 | 21-0-0 | 21-10-8 |
|---|---|---|---|---|---|---|
| 0-10-8 | 4-9-3 | 3-6-5 | 4-5-0 | 3-6-5 | 4-9-3 | 0-10-8 |

Scale = 1:37.7




| 8-3-8 | 12-8-8 | 21-0-0 |
|---|---|---|
| 8-3-8 | 4-5-0 | 8-3-8 |

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.10 | 9-17 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.22 | 9-17 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 77 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 2-0-0 oc purlins (5-0-14 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied. |

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8
Max Horz 2=46(LC 7)
Max Uplift 2=-21(LC 8), 7=-21(LC 9)
Max Grav 2=1006(LC 1), 7=1006(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1640/43, 3-4=-1376/23, 4-5=-1177/34, 5-6=-1375/23, 6-7=-1640/43 |
| BOT CHORD | 2-11=-28/1434, 9-11=0/1176, 7-9=0/1434 |
| WEBS | 3-11=-304/79, 4-11=0/322, 5-9=0/323, 6-9=-304/79 |

**NOTES-**

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

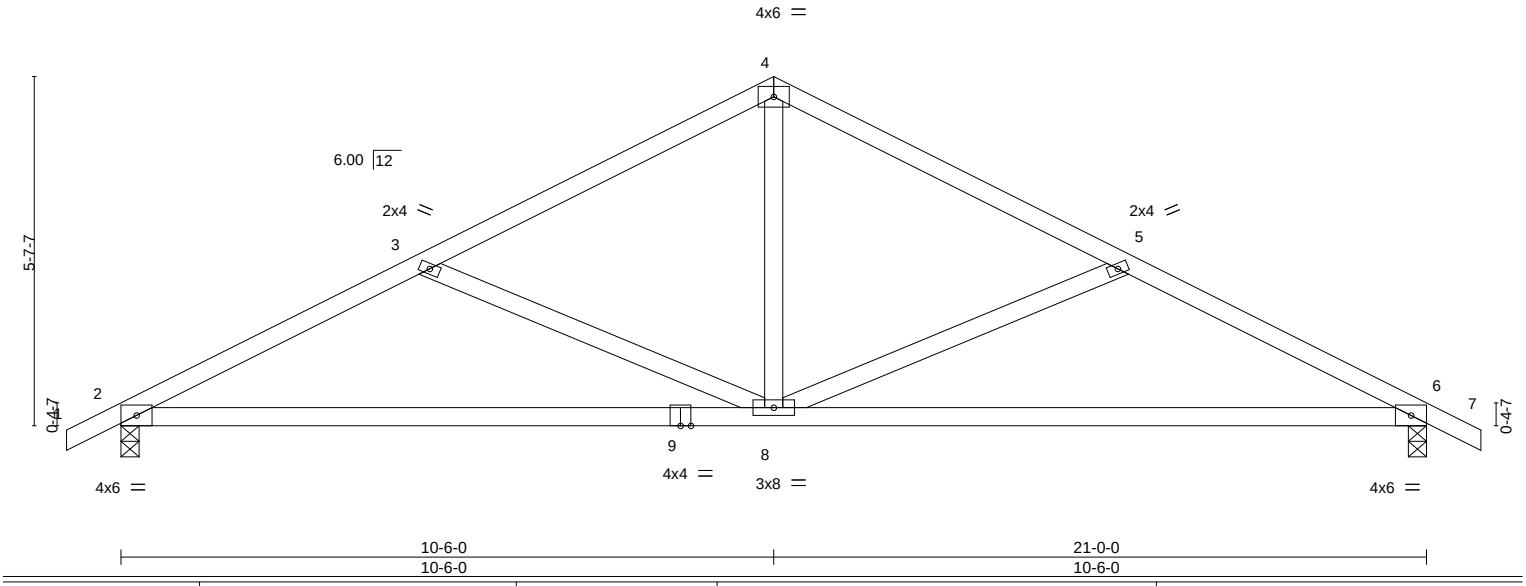
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A3 | Common | 1 | 1 | I43505910 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:14 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-9b5pEe470fJaVUh_bPTBY46Jnz8fRZQVhh8WtmyMI6l

0-10-8 4-11-10 10-6-0 16-0-7 21-0-0 21-10-8
0-10-8 4-11-10 5-6-7 5-6-7 4-11-10 0-10-8

Scale = 1:37.1




| 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 | 0.41 | Vert(LL) | -0.18 | 8-15 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.39 | 8-12 | >645 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 73 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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-58(LC 6)
Max Uplift 2=-30(LC 8), 6=-30(LC 9)
Max Grav 2=1006(LC 1), 6=1006(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1642/74, 3-4=-1203/44, 4-5=-1203/44, 5-6=-1642/75
BOT CHORD 2-8=-66/1445, 6-8=-13/1445
WEBS 4-8=0/615, 5-8=-515/114, 3-8=-515/114

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 30 lb uplift at joint 6.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A4 | ROOF SPECIAL GIRDER | 1 | 2 | I43505911 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:16 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-5_DZfJ6NYGZHlorMjqWfdVBYUmqJvOoo9?ddyfyMI6j

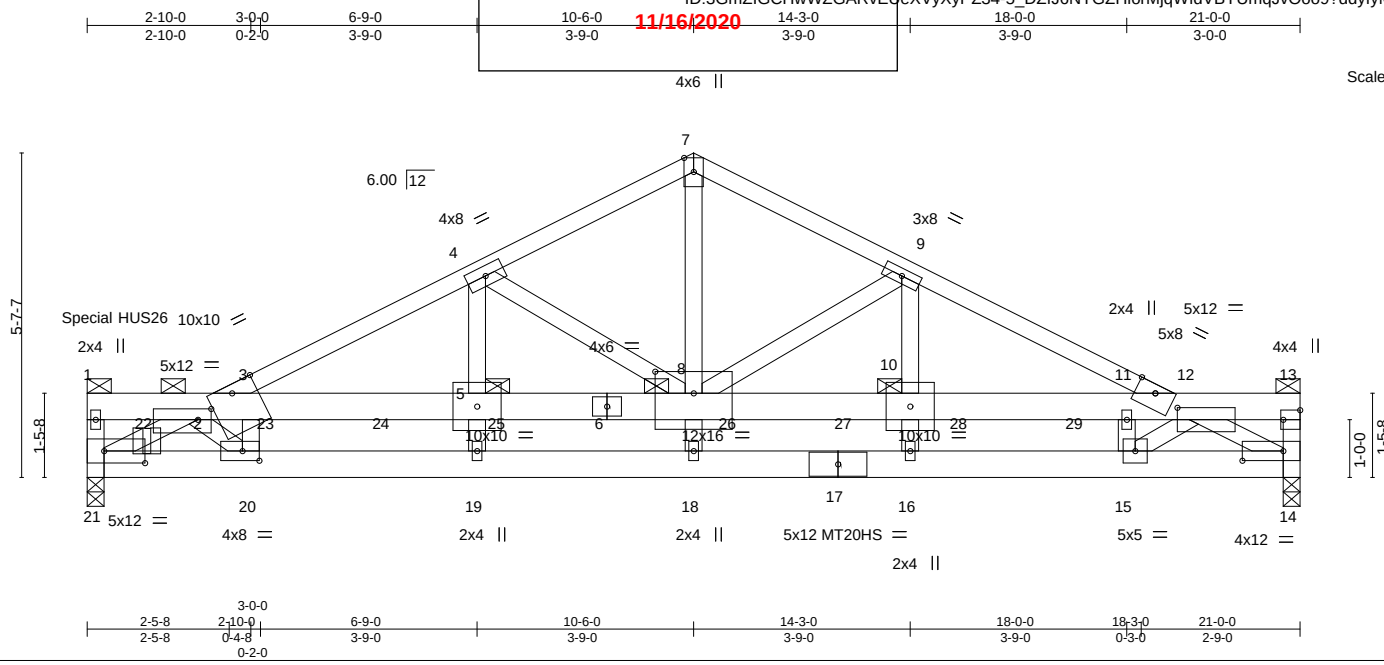



Plate Offsets (X,Y)-- [2:0-2-12,0-2-4], [8:0-8-0,0-4-8], [12:0-4-9,0-3-0], [13:Edge,0-3-8], [14:0-8-8,0-2-0], [20:0-3-8,0-2-0], [21:0-8-8,0-2-8]

| 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 | 0.78 | Vert(LL) | -0.18 | 19-20 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.33 | 19-20 | >758 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.67 | Horz(CT) | 0.09 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MS | | | | | | | Weight: 251 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2 *Except* 1-6,6-13: 2x6 SPF 2100F 1.8E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 1-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 13, 1, 8, 5, 10

**REACTIONS.** (size) 21=0-3-8, 14=0-3-8
Max Horz 21=106(LC 7)
Max Uplift 21=-560(LC 4), 14=-491(LC 5)
Max Grav 21=7325(LC 1), 14=5970(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-9288/894, 4-7=-6398/639, 7-9=-6396/637, 9-12=-8601/822, 13-14=-892/82, 2-3=-11692/1073, 3-5=-3823/356, 5-8=-3823/356, 8-10=-4101/383, 10-11=-4101/383, 11-12=-4101/383, 12-13=-515/50
BOT CHORD 20-21=-850/9285, 19-20=-1072/11692, 18-19=-1072/11692, 16-18=-1072/11692, 15-16=-1072/11692, 14-15=-781/9143
WEBS 1-21=-1822/76, 7-8=-530/5458, 4-8=-2742/309, 4-5=-276/3055, 8-9=-2462/269, 9-10=-152/1926, 5-19=-15/579, 12-14=-9909/844, 11-15=-2762/294, 12-15=-396/4157, 2-21=-10489/942, 3-20=-4294/428, 2-20=-387/4267

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 12-14 2x4 - 1 row at 0-7-0 oc, member 15-11 2x4 - 1 row at 0-7-0 oc, member 2-21 2x4 - 1 row at 0-4-0 oc, member 20-3 2x4 - 1 row at 0-4-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Bearing at joint(s) 21, 14 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 560 lb uplift at joint 21 and 491 lb uplift at joint 14.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and reference standard ANSI/TPI 1.

Continued on page 2


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | A4 | ROOF SPECIAL GIRDER | 1 | 2 | I43505911 |

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.
12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 1-0-6 from the left end to connect truss(es) to back face of top chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 992 lb down and 16 lb up at 0-1-12, and 977 lb down and 28 lb up at 19-1-0 on top 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: 3-7=-70, 7-12=-70, 14-21=-20, 1-3=-70, 12-13=-70
   Concentrated Loads (lb)
   Vert: 1=-992(B) 6=-963(B) 12=-966(B) 22=-1003(B) 23=-946(B) 24=-933(B) 25=-963(B) 26=-1891(B) 27=-945(B) 28=-915(B) 29=-915(B)

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | B1 | Common Supported Gable | 1 | 1 | I43505912 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:17 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-ZAmxtf7?Jah8MyQZHY1uAikuJAN0ezIyOeMBU5yMI6i

| -0-10-8 | 11-2-0 | 22-4-0 | 23-2-8 |
|---|---|---|---|
| 0-10-8 | 11-2-0 | 11-2-0 | 0-10-8 |

Scale = 1:51.8

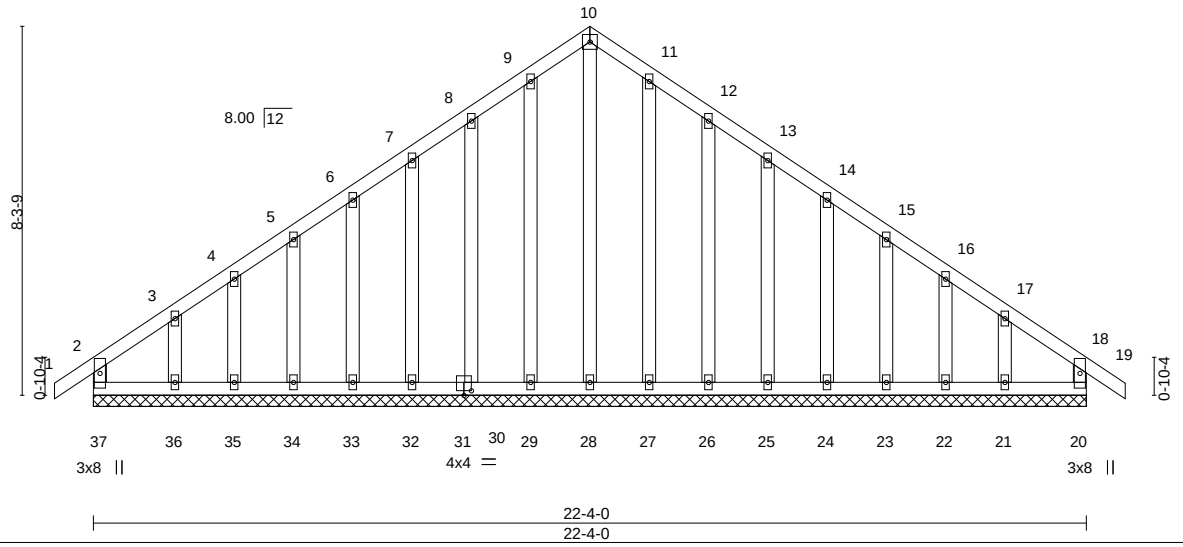



Plate Offsets (X,Y)-- [30:0-1-12,0-0-0], [31:0-2-0,0-1-4], [31:0-0-0,0-1-12]

| 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 | 0.07 | Vert(LL) | -0.00 | 19 | n/r | 120 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 19 | n/r | 120 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.00 | 20 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 136 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 22-4-0.
(lb) - Max Horz 37=-168(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 37, 20, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21
Max Grav All reactions 250 lb or less at joint(s) 37, 20, 28, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21

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

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 20, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | B2 | Common | 1 | 1 | I43505913 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:18 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-1NKK4?7d3tq?_5?lqFY7jwH?kacBNRq5cI6k0YyMI6h

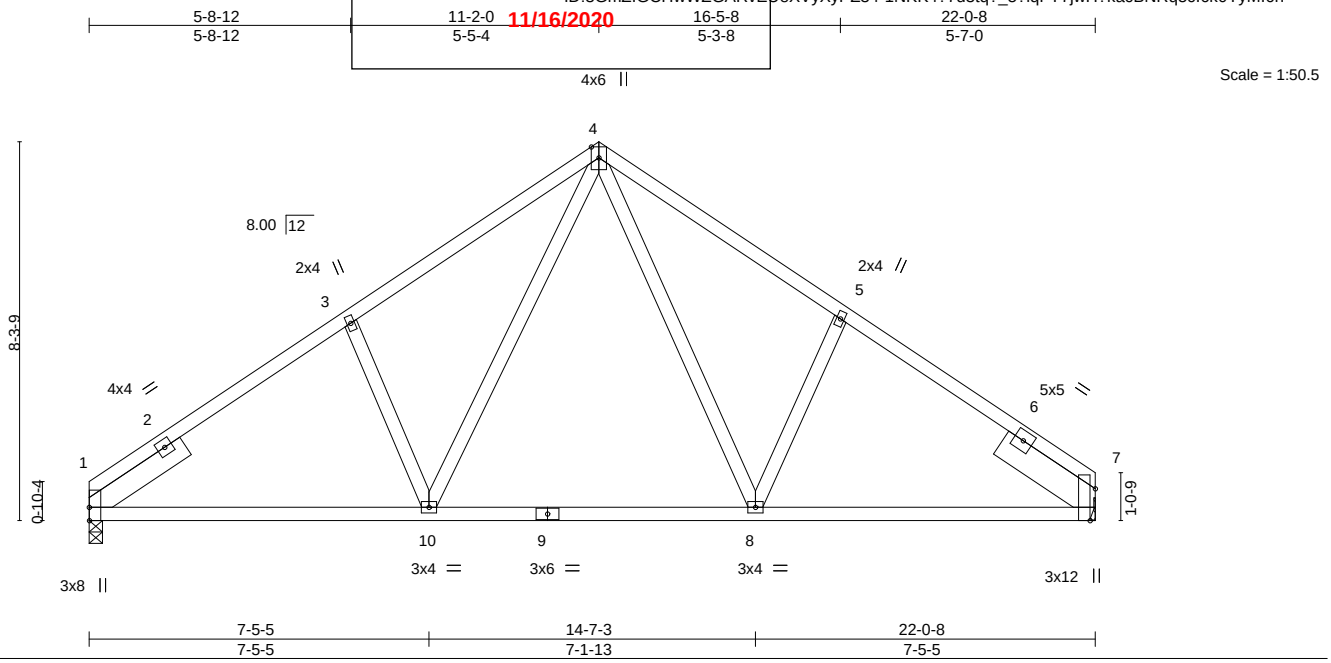



Plate Offsets (X,Y)-- [1:0-3-8,Edge], [7:0-8-6,Edge]

| 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 | 0.35 | Vert(LL) | -0.06 | 8-10 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.13 | 8-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 97 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x8 SP 2400F 2.0E 2-6-0

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

**REACTIONS.** (size) 1=0-3-8, 7=Mechanical
Max Horz 1=139(LC 5)
Max Uplift 1=-18(LC 8), 7=-16(LC 9)
Max Grav 1=992(LC 1), 7=992(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1265/51, 3-4=-1171/112, 4-5=-1118/108, 5-7=-1223/50
BOT CHORD 1-10=-53/997, 8-10=0/696, 7-8=0/948
WEBS 3-10=-316/127, 4-10=-68/481, 4-8=-63/427, 5-8=-281/124

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | B3 | GABLE | 1 | 1 | I43505914 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:19 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-VZuiIL8FqByscFZxOz3MF7p6t_yT6pdEryrHY_yMI6g

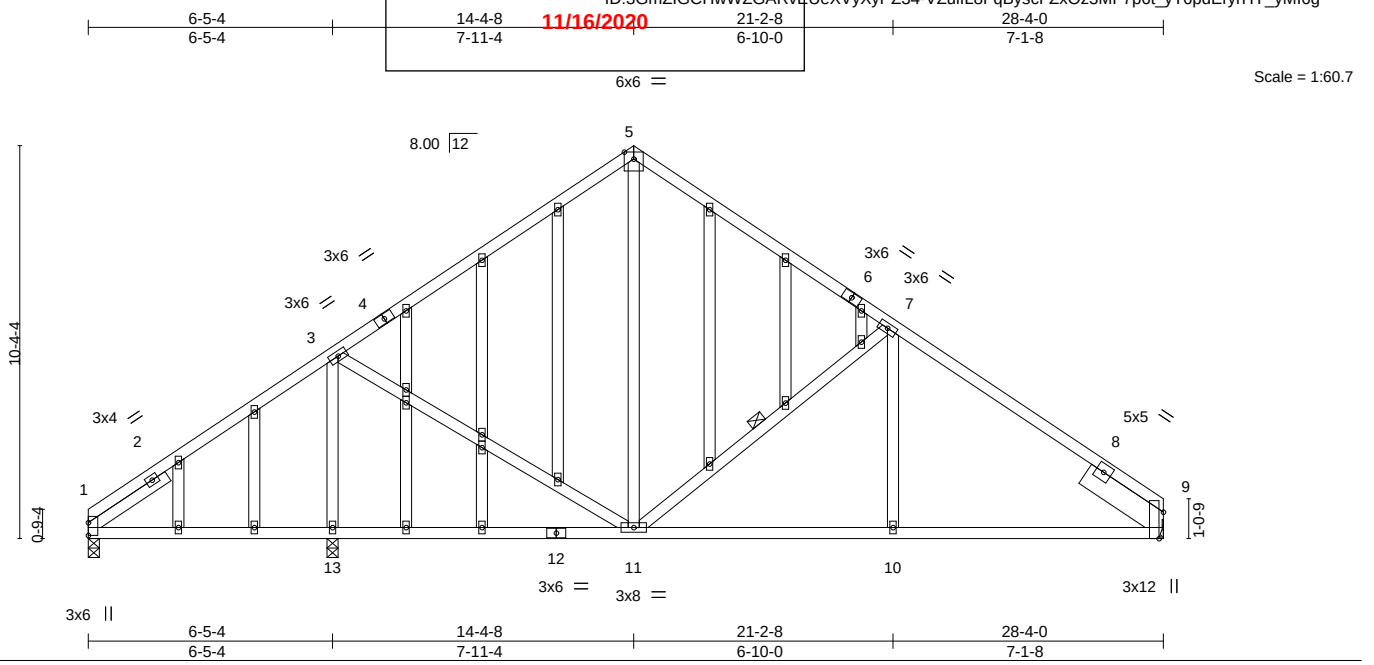



Plate Offsets (X,Y)-- [9:0-8-6,Edge]

| 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 | 0.58 | Vert(LL) | -0.07 | 11-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.13 | 11-13 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 166 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 |
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x4 SPF No.2 |
| OTHERS | 2x4 SPF No.2 |
| SLIDER | Left 2x4 SPF No.2 2-6-0, Right 2x8 SP 2400F 2.0E 2-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 7-11 |

**REACTIONS.** (size) 1=0-3-8, 13=0-3-8, 9=Mechanical
Max Horz 1=180(LC 5)
Max Uplift 1=-45(LC 9), 9=-38(LC 9)
Max Grav 1=362(LC 19), 13=1198(LC 1), 9=1003(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-829/133, 5-7=-798/117, 7-9=-1225/84
BOT CHORD 1-13=-116/252, 11-13=-116/252, 10-11=0/939, 9-10=0/939
WEBS 3-13=-1027/41, 3-11=0/441, 5-11=-55/334, 7-11=-527/125, 7-10=0/254

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
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.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | B4 | Common | 4 | 1 | I43505915 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:20 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-_lS4Vh9ubV4jDP88ygaboLMHdNIirGtO4cbr5QyMI6f

| 6-5-4 | 14-4-8 | 21-2-8 | 28-4-0 |
|---|---|---|---|
| 6-5-4 | 7-11-4 | 6-10-0 | 7-1-8 |

Scale = 1:60.7

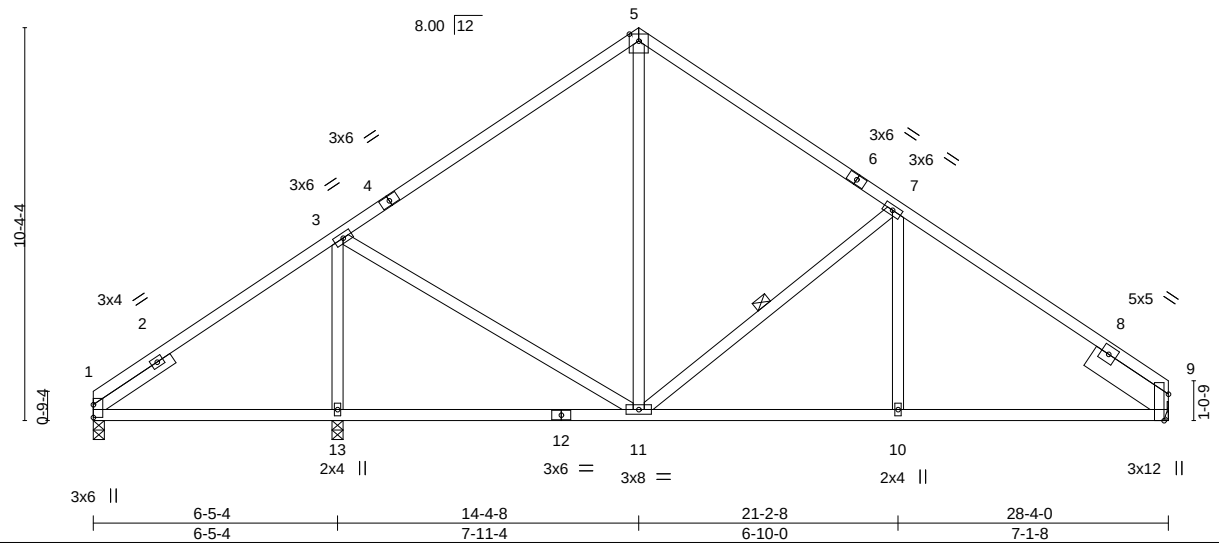



Plate Offsets (X,Y)-- [9:0-8-6,Edge]

| 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 | 0.58 | Vert(LL) | -0.07 | 11-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.13 | 11-13 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 124 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 2x8 SP 2400F 2.0E 2-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 7-11 |

**REACTIONS.** (size) 1=0-3-8, 13=0-3-8, 9=Mechanical
Max Horz 1=180(LC 5)
Max Uplift 1=-45(LC 9), 9=-38(LC 9)
Max Grav 1=362(LC 19), 13=1198(LC 1), 9=1003(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-829/133, 5-7=-798/117, 7-9=-1225/84
BOT CHORD 1-13=-116/252, 11-13=-116/252, 10-11=0/939, 9-10=0/939
WEBS 3-13=-1027/41, 3-11=0/441, 5-11=-55/334, 7-11=-527/125, 7-10=0/254

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
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.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | B5 | COMMON | 5 | 1 | I43505916 |
| | | | | | Job Reference (optional) |

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:21 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-Sy0Si1AWMoCarZjKWO5qKYvQGndDanXXlGKOdsyMI6e

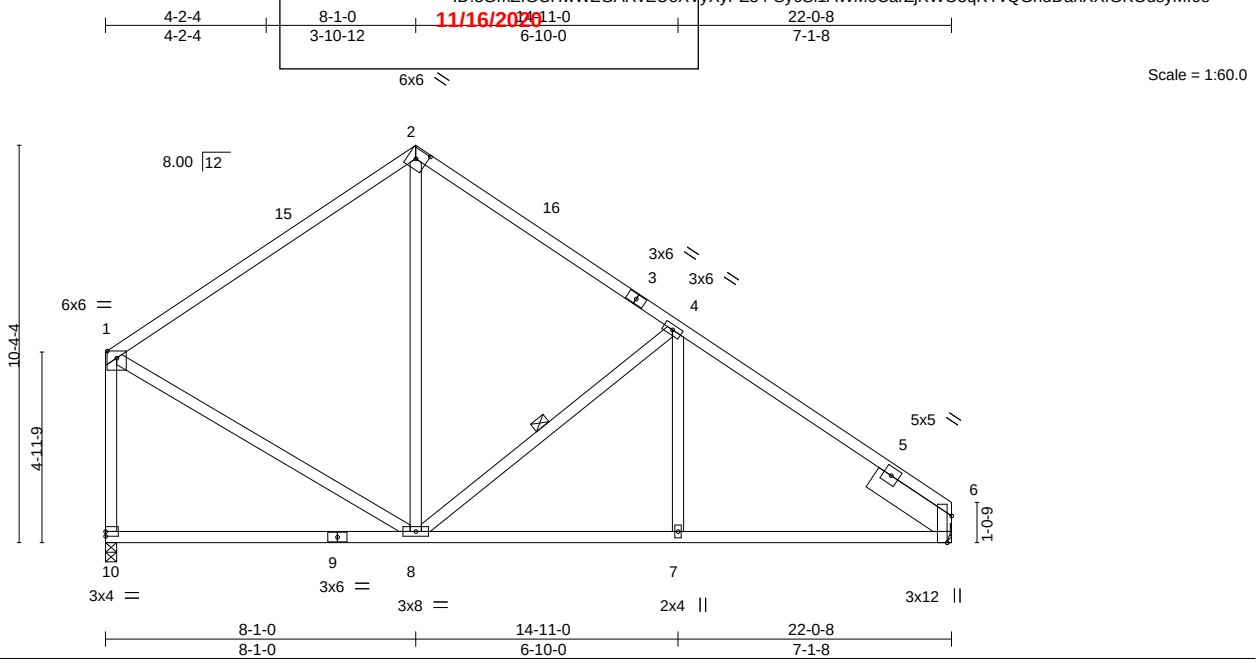



Plate Offsets (X,Y)-- [2:0-3-7,0-3-0], [6:0-8-6,Edge]

| 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 | 0.71 | Vert(LL) | -0.10 | 8-10 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.20 | 8-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 105 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x8 SP 2400F 2.0E 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-8

**REACTIONS.** (size) 10=0-3-8, 6=Mechanical
Max Horz 10=-271(LC 10)
Max Uplift 10=-82(LC 12), 6=-78(LC 12)
Max Grav 10=985(LC 1), 6=985(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-790/178, 2-4=-771/200, 4-6=-1197/172, 1-10=-909/155
BOT CHORD 7-8=-55/916, 6-7=-55/916
WEBS 1-8=-59/557, 2-8=-45/328, 4-8=-524/155

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-1-0, Exterior(2R) 8-1-0 to 11-1-0, Interior(1) 11-1-0 to 22-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) 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) 10, 6.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C1 | HIP GIRDER | 1 | 4 | I43505917 |

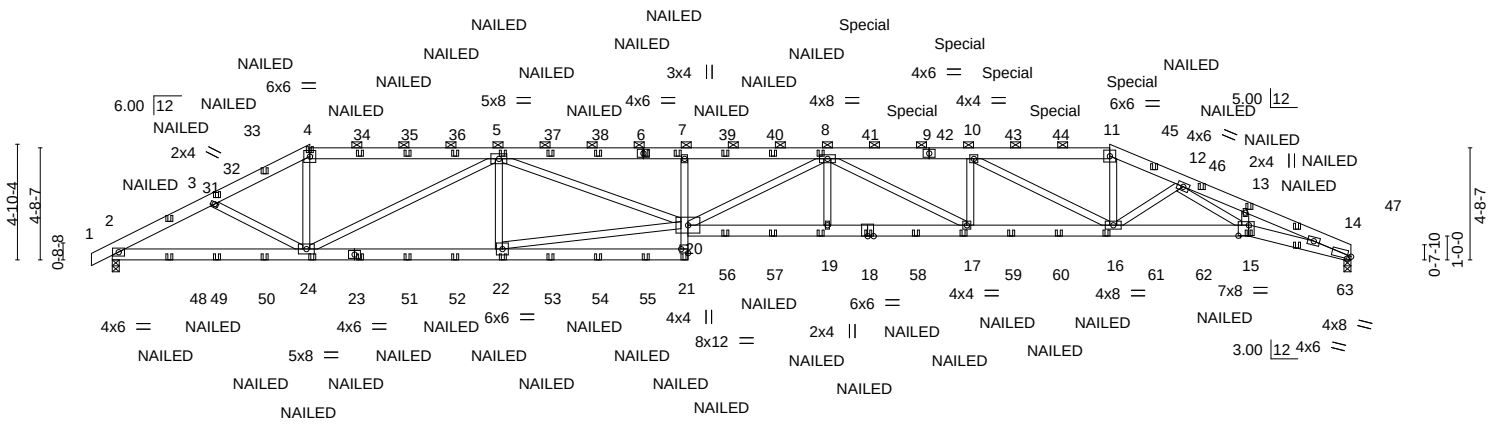
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:29 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-DUVUOmGXUGCRooKs_3EifEEpi0EzSFej8WGpvPyMI6W

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

| -0-10-8 | 4-3-8 | 8-3-8 | 16-2-12 | 24-2-0 | 30-0-4 | 36-0-4 | 41-10-8 | 44-9-8 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 4-3-8 | 4-0-0 | 7-11-4 | 7-11-4 | 5-10-4 | 6-0-0 | 5-10-4 | 2-11-0 | 2-11-0 | 4-3-8 |

Scale: 1/8"=1'




| 8-3-8 | 16-2-12 | 24-2-0 | 30-0-4 | 36-0-4 | 41-10-8 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|
| 8-3-8 | 7-11-4 | 7-11-4 | 5-10-4 | 6-0-0 | 5-10-4 | 5-10-0 | 4-3-8 |

Plate Offsets (X,Y)-- [14:0-1-13,0-1-7], [15:0-5-4,0-5-4], [21:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.57 | 19-20 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -1.03 | 19-20 | >608 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.31 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MS | | | | | | | Weight: 1109 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 SPF No.2 *Except*
7-21: 2x4 SPF No.2, 18-20,14-15: 2x6 SPF 2100F 1.8E
WEBS 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.): 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 14=0-3-8, 2=0-3-8
Max Horz 2=47(LC 10)
Max Uplift 14=-538(LC 5), 2=-514(LC 5)
Max Grav 14=4523(LC 1), 2=4594(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8484/1047, 3-4=-8525/1090, 4-5=-7583/995, 5-7=-18132/2604, 7-8=-18332/2627, 8-10=-15822/2327, 10-11=-11519/1638, 11-12=-12624/1775, 12-13=-17033/2172, 13-14=-18003/2268
BOT CHORD 2-24=-886/7385, 22-24=-1633/12364, 21-22=-205/1863, 20-21=0/354, 7-20=-719/208, 19-20=-2590/18247, 17-19=-2590/18247, 16-17=-2251/15822, 15-16=-1746/13293, 14-15=-2074/16613
WEBS 3-24=-84/449, 4-24=-271/2908, 5-24=-5444/820, 5-22=-1074/351, 20-22=-1441/10587, 5-20=-970/6249, 8-19=-78/647, 8-17=-2806/386, 10-17=-101/1265, 10-16=-4949/784, 11-16=-510/4058, 12-16=-1981/214, 12-15=-314/3383, 13-15=-183/1577

**NOTES-**
1) 4-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=538, 2=514.
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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C1 | HIP GIRDER | 1 | 4 | I43505917 |

Job Reference (optional)



**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 80 lb up at 31-8-14, 177 lb down and 80 lb up at 33-8-14, 177 lb down and 80 lb up at 35-8-14, 177 lb down and 80 lb up at 37-8-14, and 177 lb down and 80 lb up at 39-8-14, and 198 lb down and 80 lb up at 41-10-8 on top chord, and 99 lb down and 39 lb up at 43-8-14, and 86 lb down and 22 lb up at 45-8-14 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=-70, 4-11=-70, 11-14=-70, 21-28=-20, 15-20=-20, 15-25=-20
   Concentrated Loads (lb)
   Vert: 4=-115(B) 6=-115(B) 23=-58(B) 21=-58(B) 7=-115(B) 15=-66(B) 24=-58(B) 5=-115(B) 22=-58(B) 19=-156(B) 8=-19(B) 10=-176(B) 13=-106(B) 11=-176(B) 31=-93(B) 32=-32(B) 34=-115(B) 35=-115(B) 36=-115(B) 37=-115(B) 38=-115(B) 39=-19(B) 40=-19(B) 41=-176(B) 42=-176(B) 43=-176(B) 44=-176(B) 45=-74(B) 46=-87(B) 47=-111(B) 48=-90(B) 49=-141(B) 50=-193(B) 51=-58(B) 52=-58(B) 53=-58(B) 54=-58(B) 55=-58(B) 56=-156(B) 57=-156(B) 61=-99 62=-86 63=-62(B)

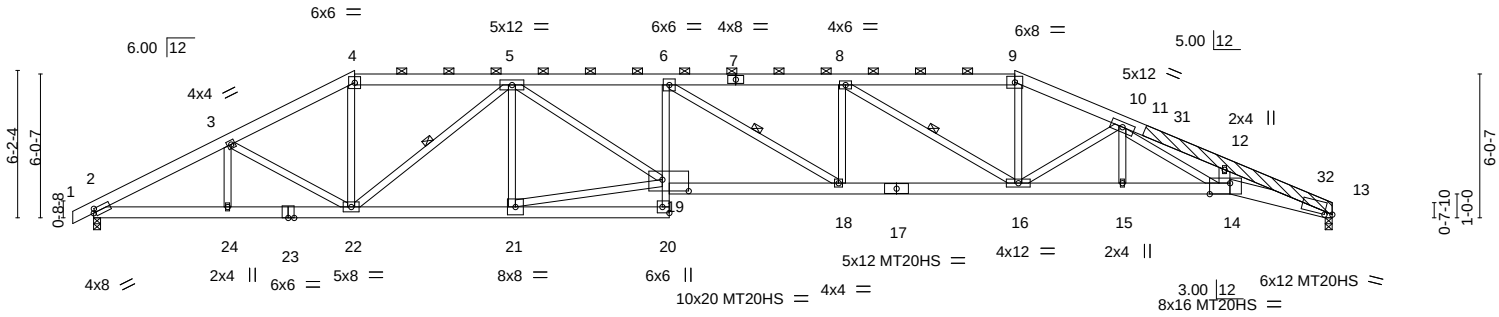
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C2 | Hip | 1 | 1 | I43505918 |
| | | | | | Job Reference (optional) |



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:39 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-wP5GUBOo7KT1?K5nZ9Q23LeSP1gconRBR4hLGqyMI6M

| -0-10-8 | 5-7-8 | 10-11-8 | 17-6-12 | 24-2-0 | 31-5-1 | 38-8-2 | 43-2-5 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 5-7-8 | 5-4-0 | 6-7-4 | 6-7-4 | 7-3-1 | 7-3-1 | 4-6-3 | 4-6-3 | 4-3-8 |

Scale: 1/8"=1'




| 5-7-8 | 10-11-8 | 17-6-12 | 24-2-0 | 31-5-1 | 38-8-2 | 43-2-5 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|
| 5-7-8 | 5-4-0 | 6-7-4 | 6-7-4 | 7-3-1 | 7-3-1 | 4-6-3 | 4-6-3 | 4-3-8 |

Plate Offsets (X,Y)-- [2:0-1-1,0-2-0], [13:0-3-14,0-0-15], [14:0-10-4,Edge], [19:1-1-4,0-5-12], [20:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.68 | 18-19 | >922 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -1.23 | 18-19 | >506 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.43 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 310 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SPF No.2 |
| BOT CHORD | 2x6 SPF 2100F 1.8E *Except* 6-20: 2x4 SPF No.2, 13-14: 2x8 SP 2400F 2.0E, 20-23: 2x6 SPF No.2 |
| WEBS | 2x4 SPF No.2 *Except* 19-21: 2x4 SPF 1650F 1.5E, 12-14: 2x6 SPF No.2 |
| OTHERS | 2x6 SPF No.2 |
| LBR SCAB | 11-13 2x6 SPF No.2 one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-4-15 max.): 4-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 5-22, 6-18, 8-16 |

**REACTIONS.** (size) 13=0-3-8, 2=0-3-8
Max Horz 2=59(LC 10)
Max Uplift 13=-44(LC 5), 2=-52(LC 5)
Max Grav 13=2339(LC 1), 2=2402(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-4349/136, 3-4=-4109/179, 4-5=-3621/173, 5-6=-6935/320, 6-8=-6435/287, 8-9=-5013/203, 9-10=-5521/210, 10-12=-8070/217, 12-13=-8489/185 |
| BOT CHORD | 2-24=-78/3790, 22-24=-78/3790, 21-22=-141/4913, 20-21=-16/459, 18-19=-221/6983, 16-18=-187/6435, 15-16=-121/6195, 14-15=-121/6195, 13-14=-142/7828 |
| WEBS | 4-22=-14/1344, 5-22=-1779/118, 5-21=-785/88, 19-21=-127/4536, 5-19=-94/2434, 6-18=-772/39, 8-18=0/411, 8-16=-1830/101, 9-16=-14/1693, 10-15=0/331, 10-16=-1347/72, 12-14=0/643, 10-14=-50/1563 |

**NOTES-**

1) Attached 8-7-8 scab 11 to 13, front face(s) 2x6 SPF No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-0 from end at joint 11, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-10-5 from end at joint 11, nail 2 row(s) at 7" o.c. for 3-8-1.
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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 2.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) 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.


November 5,2020



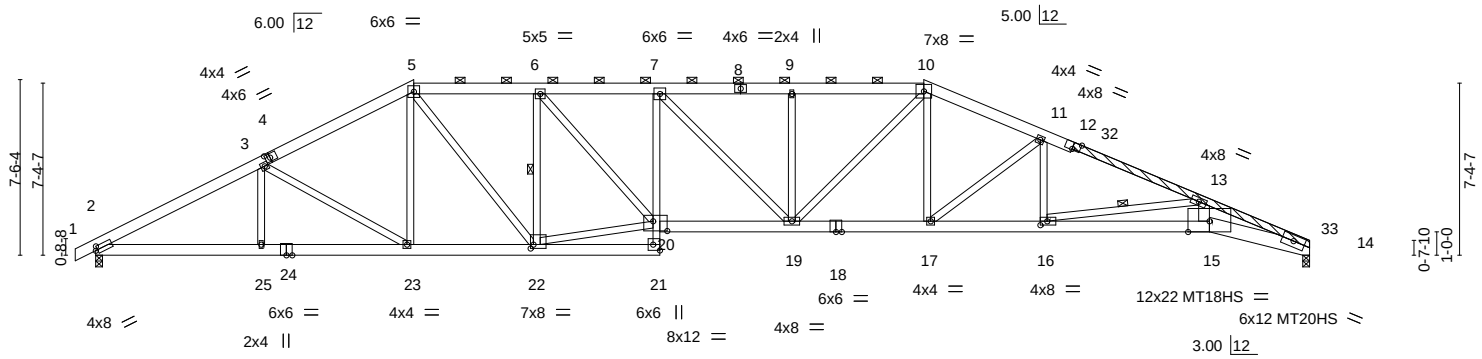
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C3 | Hip | 1 | 1 | I43505919 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:41 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-soD0vsP3fyjkFeFAhaSW8mkpVrKmGe8UvNASKiyMI6K

| -0-10-8 | 7-1-1 | 13-7-8 | 18-10-12 | 24-2-0 | 29-9-14 | 35-5-11 | 40-7-5 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 0-10-8 | 7-1-1 | 6-6-7 | 5-3-4 | 5-3-4 | 5-7-14 | 5-7-14 | 5-1-10 | 7-1-3 | 4-3-8 |

Scale = 1:98.7




| 7-1-1 | 13-7-8 | 18-10-12 | 24-2-0 | 29-9-14 | 35-5-11 | 40-7-5 | 47-8-8 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|
| 7-1-1 | 6-6-7 | 5-3-4 | 5-3-4 | 5-7-14 | 5-7-14 | 5-1-10 | 7-1-3 | 4-3-8 |

Plate Offsets (X,Y)-- [2:0-1-1,0-2-0], [4:0-2-8,0-2-0], [12:0-4-0,Edge], [16:0-3-8,0-2-0], [20:0-7-4,0-5-0], [21:Edge,0-3-8], [22:0-1-8,0-2-0]

| 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 | 0.89 | Vert(LL) | -0.54 | 19-20 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -0.98 | 19-20 | >637 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.37 | 14 | n/a | n/a | MT18HS | 197/144 |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 313 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SPF No.2 *Except* |
| | 12-14: 2x4 SPF 1650F 1.5E |
| BOT CHORD | 2x6 SPF 2100F 1.8E *Except* |
| | 7-21: 2x4 SPF No.2, 18-20: 2x6 SPF No.2, 14-15: 2x8 SP 2400F 2.0E |
| WEBS | 2x4 SPF No.2 *Except* |
| | 13-15: 2x6 SPF No.2 |
| OTHERS | 2x4 SPF 1650F 1.5E |
| LBR SCAB | 12-14 2x4 SPF 1650F 1.5E one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except |
| | 2-0-0 oc purlins (3-0-6 max.): 5-10. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 6-22, 13-16 |

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8
Max Horz 2=72(LC 8)
Max Uplift 2=-31(LC 5), 14=-24(LC 5)
Max Grav 2=2402(LC 1), 14=2339(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-4369/104, 3-5=-3912/153, 5-6=-4071/185, 6-7=-5175/214, 7-9=-5072/201, |
| | 9-10=-5074/203, 10-11=-4871/167, 11-13=-5893/136, 13-14=-8646/108 |
| BOT CHORD | 2-25=-41/3800, 23-25=-41/3800, 22-23=-27/3420, 21-22=-11/440, 7-20=-342/84, |
| | 19-20=-91/5196, 17-19=-38/4438, 16-17=-50/5418, 15-16=-80/7613, 14-15=-74/8000 |
| WEBS | 3-23=-453/107, 5-23=-3/414, 5-22=-90/1217, 6-22=-1630/110, 20-22=-52/3732, |
| | 6-20=-45/1638, 7-19=-350/25, 9-19=-457/84, 10-19=-57/1097, 10-17=-17/797, |
| | 11-17=-1220/93, 11-16=0/665, 13-16=-2225/97, 13-15=0/1363 |

**NOTES-**

1) Attached 11-0-5 scab 12 to 14, front face(s) 2x4 SPF 1650F 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 8-5-9 from end at joint 12, nail 1 row(s) at 3" o.c. for 2-6-0.
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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; 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) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
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.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

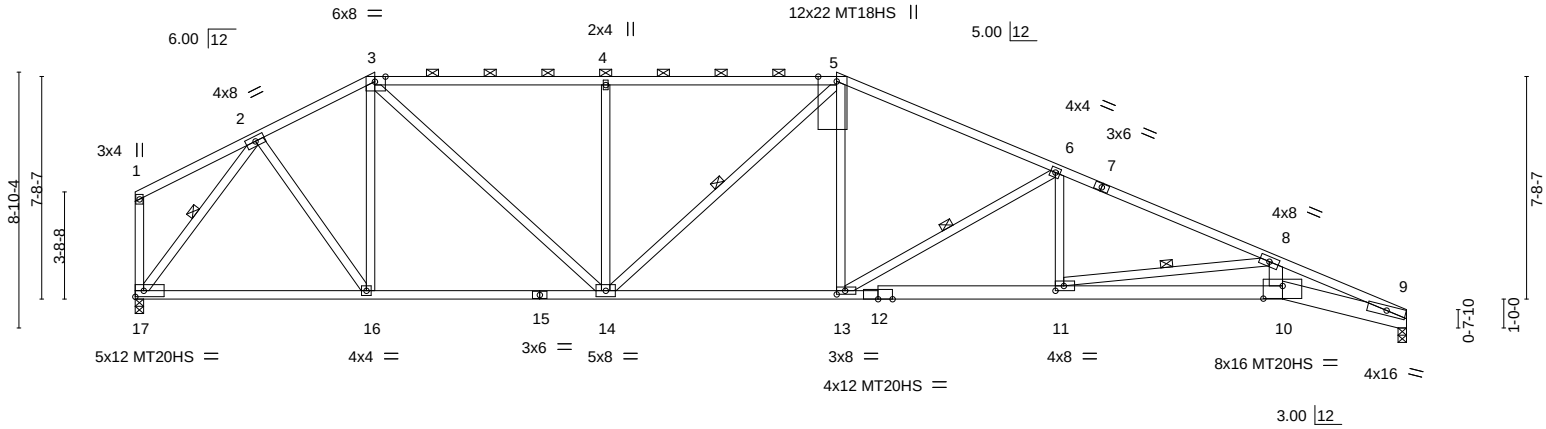
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C4 | Hip | 1 | 1 | I43505920 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:42 2020 Page 1
ID:3GmZlGCHwWZGARvEUeXVyXyPZ34-K_nO6CQhQFrbsnqMEIzlh_GzpFgC?9Td71w?s9yMI6J

| 4-3-8 | 8-3-8 | 16-3-6 | 24-3-5 | 31-11-14 | 39-8-8 | 44-0-0 |
|---|---|---|---|---|---|---|
| 4-3-8 | 4-0-0 | 7-11-14 | 7-11-14 | 7-8-10 | 7-8-10 | 4-3-8 |

Scale = 1:79.7




| 8-3-8 | 16-3-6 | 24-3-5 | 31-11-14 | 39-8-8 | 44-0-0 |
|---|---|---|---|---|---|
| 8-3-8 | 7-11-14 | 7-11-14 | 7-8-10 | 7-8-10 | 4-3-8 |

Plate Offsets (X,Y)-- [3:0-4-6,Edge], [5:0-2-0,Edge], [10:0-8-0,0-5-4], [11:0-3-8,0-2-0], [13:0-3-8,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.42 | 10-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.77 | 10-11 | >680 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.27 | 9 | n/a | n/a | MT18HS | 197/144 |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 213 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 3-5,7-9: 2x4 SPF 1650F 1.5E |
| BOT CHORD | 2x4 SPF No.2 *Except* 9-10: 2x8 SP 2400F 2.0E, 10-12: 2x6 SPF 2100F 1.8E |
| WEBS | 2x4 SPF No.2 *Except* 8-10: 2x6 SPF No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-2-2 max.): 3-5. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 5-14, 6-13, 8-11, 2-17 |

**REACTIONS.** (size) 9=0-3-8, 17=0-3-8
Max Horz 17=-160(LC 4)
Max Uplift 9=-43(LC 9), 17=-29(LC 5)
Max Grav 9=1973(LC 1), 17=1973(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-2027/105, 3-4=-2792/140, 4-5=-2792/140, 5-6=-3263/114, 6-8=-4595/84, 8-9=-7365/136 |
| BOT CHORD | 16-17=0/1321, 14-16=0/1792, 13-14=0/2905, 11-13=0/4187, 10-11=-101/6521, 9-10=-95/6840 |
| WEBS | 2-16=-22/846, 3-16=-519/90, 3-14=-75/1422, 4-14=-665/122, 5-13=0/814, 6-13=-1457/123, 6-11=0/674, 8-11=-2362/126, 8-10=0/1151, 2-17=-2156/32 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 17.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

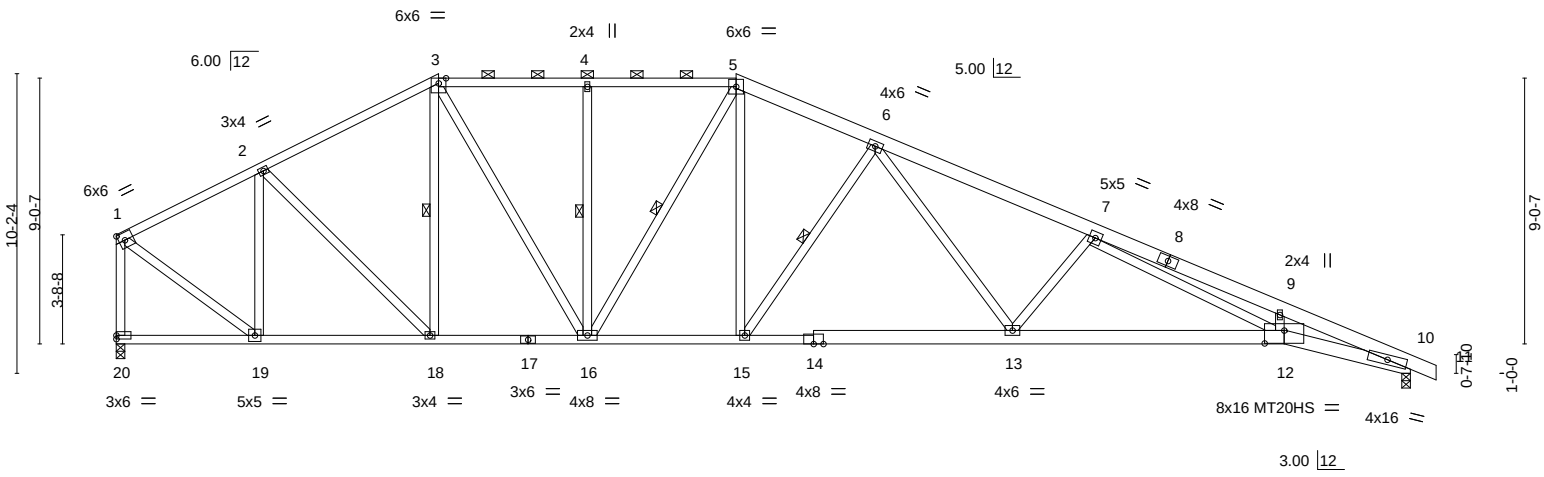
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C5 | Hip | 1 | 1 | I43505921 |
| | | | | | Job Reference (optional) |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:43 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-pBLnKYRJBZzSUxPZo?V_EBpBjf5BkdUmMhfZPbyMI6I

4-10-4 | 10-11-8 | 16-0-3 | 21-0-14 | 25-9-10 | 33-1-12 | 39-8-8 | 44-0-0 | 44-10-8
4-10-4 | 6-1-3 | 5-0-11 | 5-0-11 | 4-8-12 | 7-4-2 | 6-6-12 | 4-3-8 | 0-10-8

Scale = 1:78.3




4-10-4 | 10-11-8 | 16-0-3 | 21-0-14 | 30-5-10 | 39-8-8 | 44-0-0
4-10-4 | 6-1-3 | 5-0-11 | 5-0-11 | 9-4-12 | 9-2-14 | 4-3-8

Plate Offsets (X,Y)-- [12:0-8-0,0-5-4]

| 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 | 0.71 | Vert(LL) | -0.41 | 12-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.76 | 12-13 | >693 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.25 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 244 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2 *Except*
5-8: 2x6 SPF No.2, 8-11: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
10-12,12-14: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-18, 4-16, 5-16, 6-15

**REACTIONS.** (size) 20=0-3-8, 10=0-3-8
Max Horz 20=-182(LC 4)
Max Uplift 20=-3(LC 5), 10=-64(LC 9)
Max Grav 20=1973(LC 1), 10=2035(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1698/53, 2-3=-2148/94, 3-4=-2308/106, 4-5=-2306/105, 5-6=-2763/101, 6-7=-4324/134, 7-9=-7208/236, 9-10=-7428/164, 1-20=-1928/21
BOT CHORD 18-19=0/1466, 16-18=0/1847, 15-16=0/2483, 13-15=0/3107, 12-13=-33/4504, 10-12=-110/6850
WEBS 2-19=-955/38, 2-18=-30/607, 3-18=-309/69, 3-16=-53/1013, 4-16=-407/78, 5-16=-425/55, 5-15=-49/994, 6-15=-1088/129, 6-13=-33/1362, 7-13=-1017/144, 7-12=-100/2468, 9-12=0/340, 1-19=0/1790

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 10.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C6 | Piggyback Base | 1 | 1 | I43505922 |

Job Reference (optional)

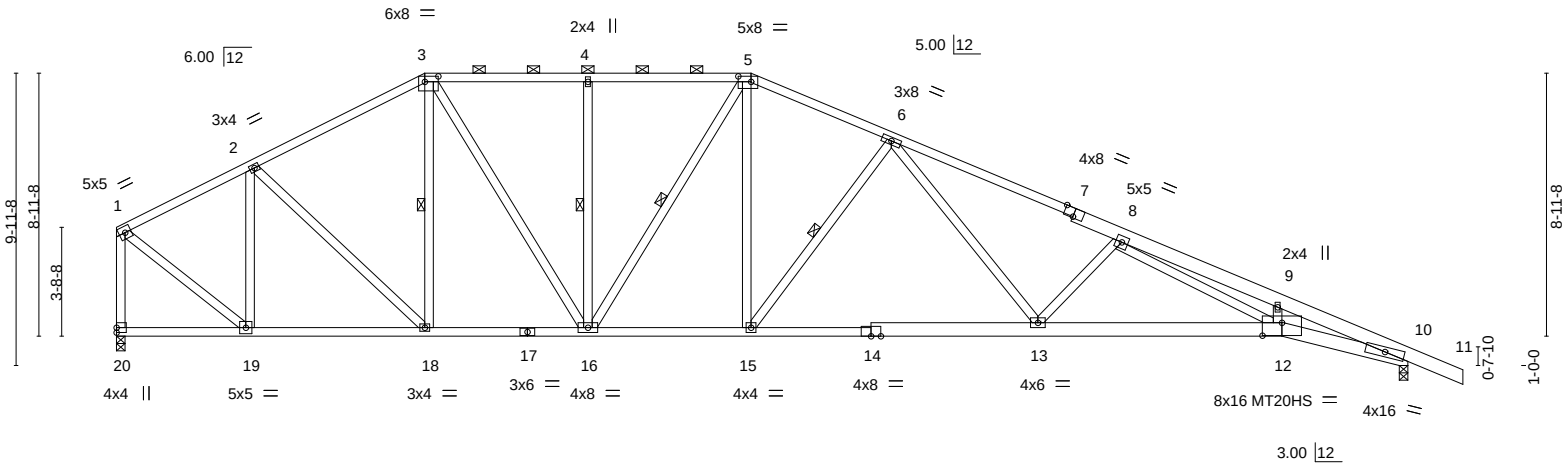
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:44 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-HNv9XuSxyt5J65_lMj0DmPMK12PhT4OwbLP6x1yMI6H

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

| 4-6-10 | 10-6-1 | 16-0-12 | 21-7-7 | 26-4-13 | 34-1-5 | 39-8-8 | 44-0-0 | 45-10-8 |
|---|---|---|---|---|---|---|---|---|
| 4-6-10 | 5-11-7 | 5-6-11 | 5-6-11 | 4-9-6 | 7-8-8 | 5-7-3 | 4-3-8 | 1-10-8 |

Scale = 1:78.5




| 4-6-10 | 10-6-1 | 16-0-12 | 21-7-7 | 31-4-12 | 39-8-8 | 44-0-0 |
|---|---|---|---|---|---|---|
| 4-6-10 | 5-11-7 | 5-6-11 | 5-6-11 | 9-9-4 | 8-3-12 | 4-3-8 |

Plate Offsets (X,Y)-- [3:0-5-8,0-2-4], [5:0-5-4,0-2-4], [7:0-4-0,Edge], [12:0-8-0,0-5-4]

| 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 | 0.87 | Vert(LL) | -0.39 | 12-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.71 | 12-13 | >741 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.25 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 234 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SPF No.2 *Except*
7-11: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
10-12,12-14: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-13 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-18, 4-16, 5-16, 6-15

**REACTIONS.** (size) 20=0-3-8, 10=0-3-8
Max Horz 20=-186(LC 4)
Max Uplift 20=-7(LC 5), 10=-71(LC 9)
Max Grav 20=1971(LC 1), 10=2107(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1638/54, 2-3=-2142/96, 3-4=-2330/110, 4-5=-2330/110, 5-6=-2770/95, 6-8=-4435/129, 8-9=-7164/185, 9-10=-7397/133, 1-20=-1929/22
BOT CHORD 18-19=0/1416, 16-18=0/1823, 15-16=0/2508, 13-15=0/3136, 12-13=-37/4660, 10-12=-73/6820
WEBS 2-19=-994/39, 2-18=-32/634, 3-18=-311/72, 3-16=-58/1029, 4-16=-429/86, 5-16=-398/50, 5-15=-38/985, 6-15=-1082/127, 6-13=-33/1371, 8-13=-1054/154, 9-12=0/304, 1-19=0/1775, 8-12=-46/2279

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 10.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C7 | Piggyback Base | 8 | 1 | I43505923 |
| | | | | | Job Reference (optional) |

**RELEASE FOR CONSTRUCTION**
**AS NOTED ON PLANS REVIEW**
**DEVELOPMENT SERVICES**
**LEE'S SUMMIT, MISSOURI**
**11/16/2020**

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:45 2020 Page 1
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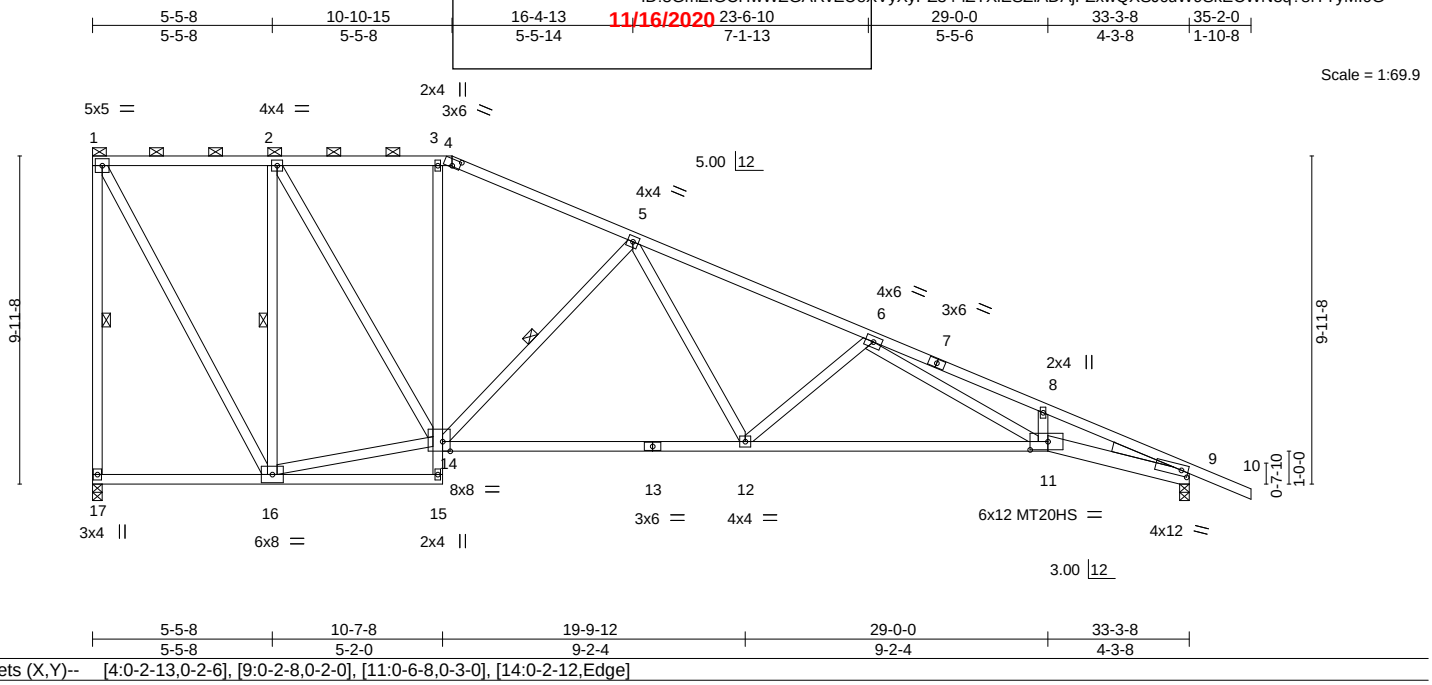


Plate Offsets (X,Y)-- [4:0-2-13,0-2-6], [9:0-2-8,0-2-0], [11:0-6-8,0-3-0], [14:0-2-12,Edge]

| 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 | 0.78 | Vert(LL) | -0.38 | 11-12 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.80 | 11-12 | >496 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.22 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 178 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2 *Except*
7-10: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
9-11: 2x6 SPF 2100F 1.8E, 11-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-3 max.): 1-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-17, 2-16, 5-14

**REACTIONS.** (size) 17=0-3-8, 9=0-3-8
Max Horz 17=-299(LC 6)
Max Uplift 17=-77(LC 4), 9=-68(LC 9)
Max Grav 17=1488(LC 1), 9=1627(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1438/82, 1-2=-701/91, 2-3=-1229/89, 3-4=-1228/88, 4-5=-1411/81, 5-6=-2704/101, 6-8=-5048/178, 8-9=-5128/115
BOT CHORD 12-14=0/1960, 11-12=-21/3077, 9-11=-58/4703
WEBS 1-16=-73/1455, 2-16=-1314/87, 14-16=0/736, 2-14=-19/1030, 5-14=-1075/125, 5-12=-3/936, 6-12=-898/133, 6-11=-53/1846

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Bearing at joint(s) 9 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) 17, 9.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C8 | Piggyback Base | 1 | 1 | I43505924 |
| | | | | | Job Reference (optional) |



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:46 2020 Page 1
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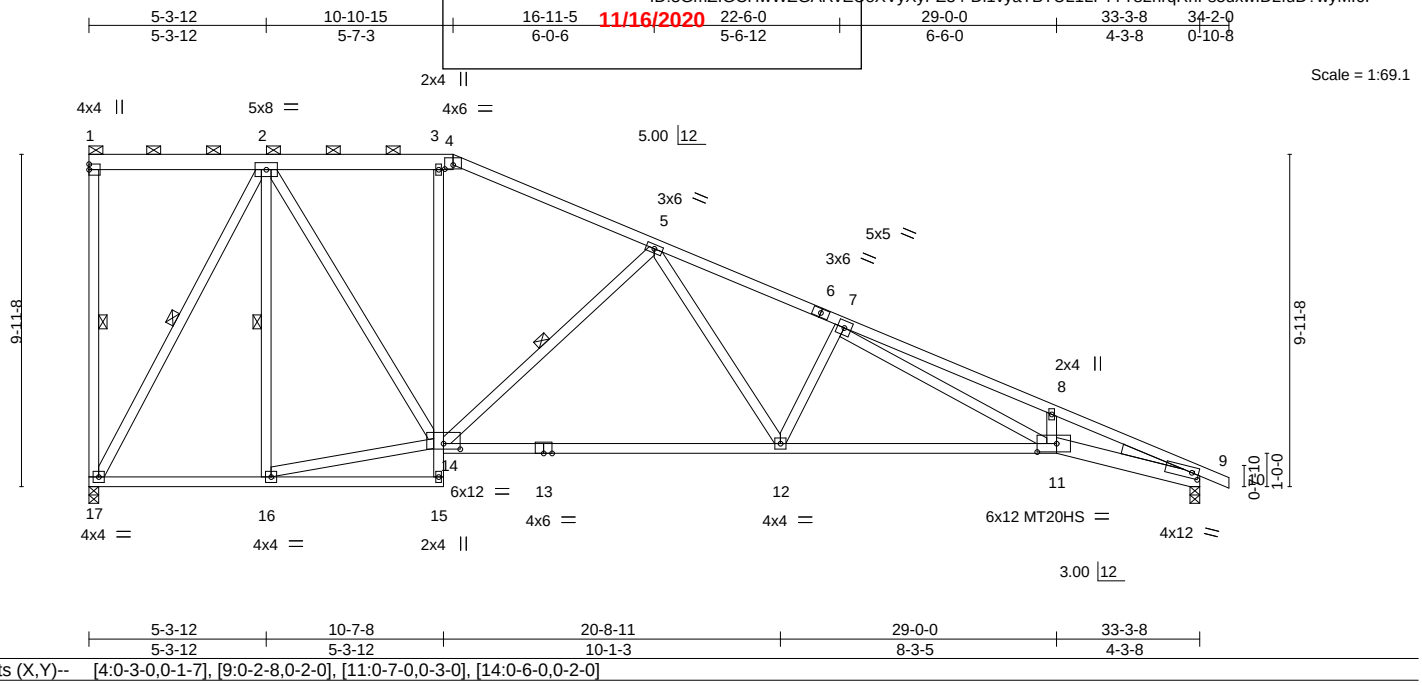


Plate Offsets (X,Y)-- [4:0-3-0,0-1-7], [9:0-2-8,0-2-0], [11:0-7-0,0-3-0], [14:0-6-0,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -0.40 | 11-12 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.77 | 11-12 | >519 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.23 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 184 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2 *Except*
1-4: 2x6 SPF No.2, 6-10: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
9-11: 2x6 SPF 2100F 1.8E, 11-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-17, 2-17, 2-16, 5-14

**REACTIONS.** (size) 17=0-3-8, 9=0-3-8
Max Horz 17=-290(LC 6)
Max Uplift 17=-77(LC 4), 9=-59(LC 9)
Max Grav 17=1491(LC 1), 9=1554(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1240/91, 3-4=-1183/92, 4-5=-1427/79, 5-7=-2892/124, 7-8=-5178/234, 8-9=-5208/156
BOT CHORD 16-17=0/706, 3-14=0/254, 12-14=0/2025, 11-12=-5/2929, 9-11=-107/4788
WEBS 2-17=-1478/81, 14-16=0/754, 2-14=-25/1037, 5-14=-1078/125, 5-12=-27/1081, 7-12=-758/121, 7-11=-130/2105

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C9 | Roof Special | 1 | 1 | I43505925 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:47 2020 Page 1
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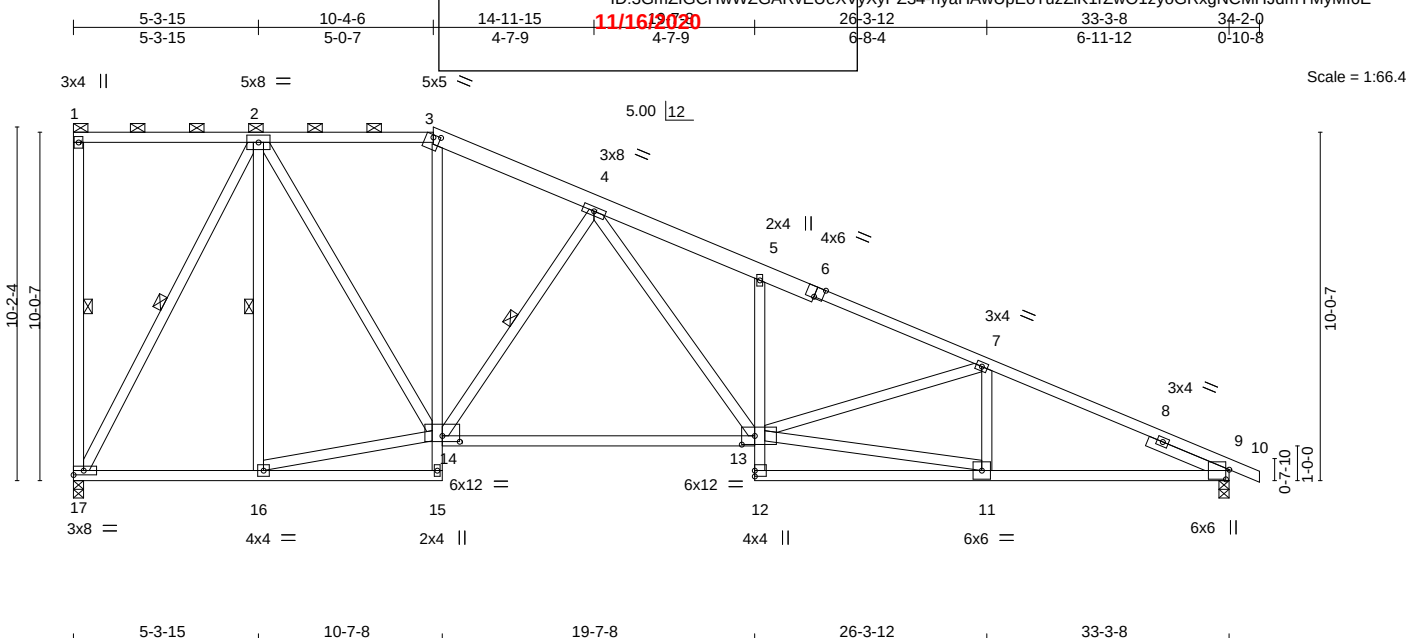


Plate Offsets (X,Y)-- [3:0-2-8,0-0-14], [6:0-3-0,Edge], [9:0-3-5,0-1-2], [13:0-4-8,0-3-0], [14:0-6-0,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.23 | 13-14 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.53 | 13-14 | >757 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 193 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 3-6: 2x6 SPF No.2 |
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x4 SPF No.2 |
| SLIDER | Right 2x4 SPF No.2 2-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-5 max.): 1-3. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 1-17, 2-17, 2-16, 4-14 |

**REACTIONS.** (size) 17=0-3-8, 9=0-3-8
Max Horz 17=-295(LC 6)
Max Uplift 17=-76(LC 4), 9=-60(LC 9)
Max Grav 17=1491(LC 1), 9=1554(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1231/94, 3-4=-1402/87, 4-5=-2769/159, 5-7=-2756/106, 7-9=-2854/115 |
| BOT CHORD | 16-17=0/693, 3-14=0/256, 13-14=0/1778, 5-13=-453/103, 9-11=-46/2571 |
| WEBS | 2-17=-1460/73, 14-16=0/752, 2-14=-23/1058, 4-14=-982/126, 4-13=-83/1249, 11-13=-30/2477, 7-11=-278/57 |

**NOTES-**

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE | |
|---|---|---|---|---|---|---|
| 2523903 | C10 | Roof Special | 1 | 1 | Job Reference (optional) | I43505926 |

Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 09:01:32 2020 Page 1
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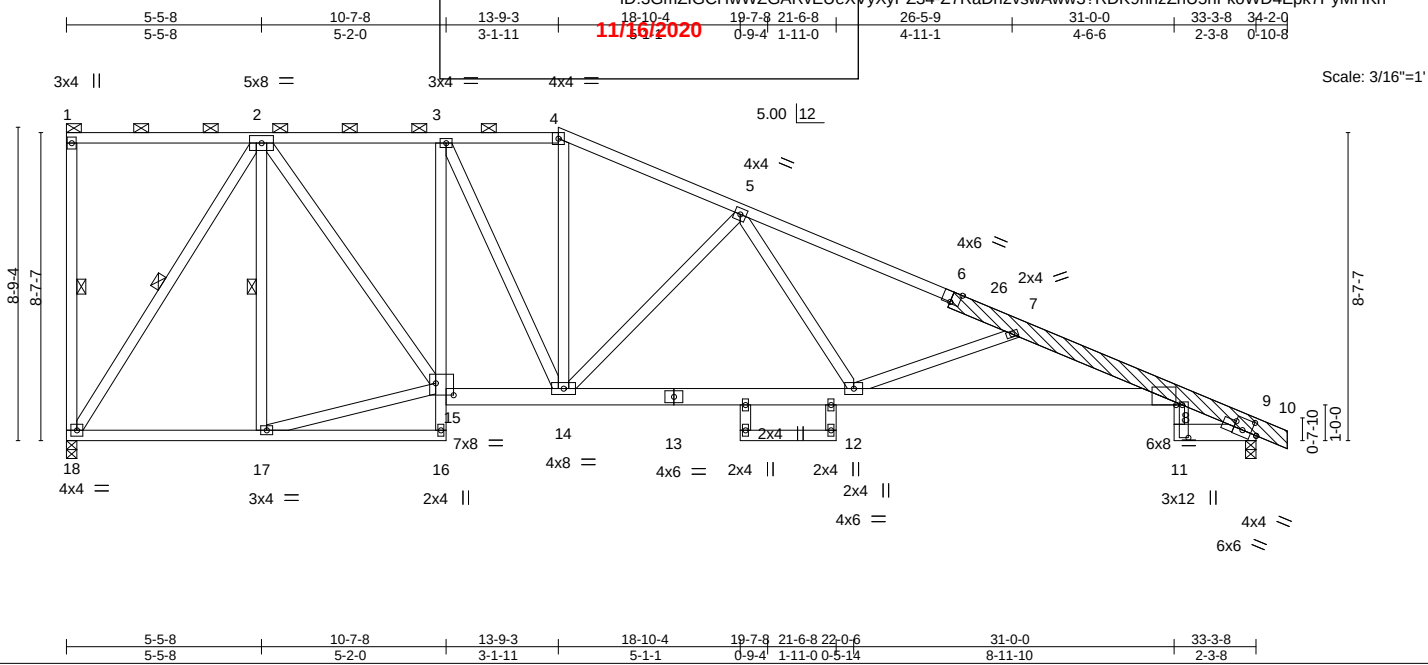


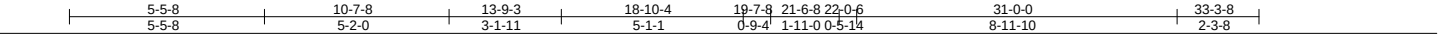


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [8:0-2-2,0-0-0], [8:0-0-3,0-0-6], [8:0-6-10,0-2-12], [9:0-3-0,0-3-14], [11:0-0-11,1-10-12], [11:0-7-15,0-2-0], [11:0-0-0,0-1-12], [15:0-6-0,0-4-0]

| 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 | 0.62 | Vert(LL) | -0.29 | 8-12 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.55 | 8-12 | >721 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.22 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 215 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 6-10: 2x6 SPF 2100F 1.8E |
| BOT CHORD | 2x4 SPF No.2 *Except* 13-15,9-11: 2x6 SPF No.2, 8-13: 2x6 SPF 2100F 1.8E |
| WEBS | 2x4 SPF No.2 |
| OTHERS | 2x6 SPF 2100F 1.8E |
| LBR SCAB | 6-10 2x6 SPF 2100F 1.8E one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-13 max.): 1-4. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 1-18, 2-18, 2-17 |

**REACTIONS.** (size) 18=0-3-8, 9=0-3-8
Max Horz 18=-253(LC 6)
Max Uplift 18=-78(LC 4), 9=-52(LC 9)
Max Grav 18=1491(LC 1), 9=1556(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1524/84, 3-4=-1659/78, 4-5=-1871/73, 5-6=-3070/88, 6-26=-3177/57, 7-26=-3208/56, 7-8=-4337/192, 8-9=-648/42 |
| BOT CHORD | 17-18=0/828, 3-15=-582/68, 14-15=0/1530, 13-14=0/2345, 12-13=0/2345, 8-12=-126/4155 |
| WEBS | 8-11=-4/426, 2-18=-1520/79, 15-17=0/790, 2-15=0/1192, 3-14=-51/309, 4-14=0/436, 5-14=-992/114, 5-12=0/947, 7-12=-1421/200 |

**NOTES-**

1) Attached 10-3-8 scab 6 to 10, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-0 from end at joint 6, nail 2 row(s) at 7" o.c. for 3-2-0; starting at 6-0-11 from end at joint 6, nail 2 row(s) at 2" o.c. for 4-2-4.
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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 18 and 52 lb uplift at joint 9.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE | |
|---|---|---|---|---|---|---|
| 2523903 | C11 | Roof Special | 1 | 1 | Job Reference (optional) | I43505927 |

Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 09:02:01 2020 Page 1
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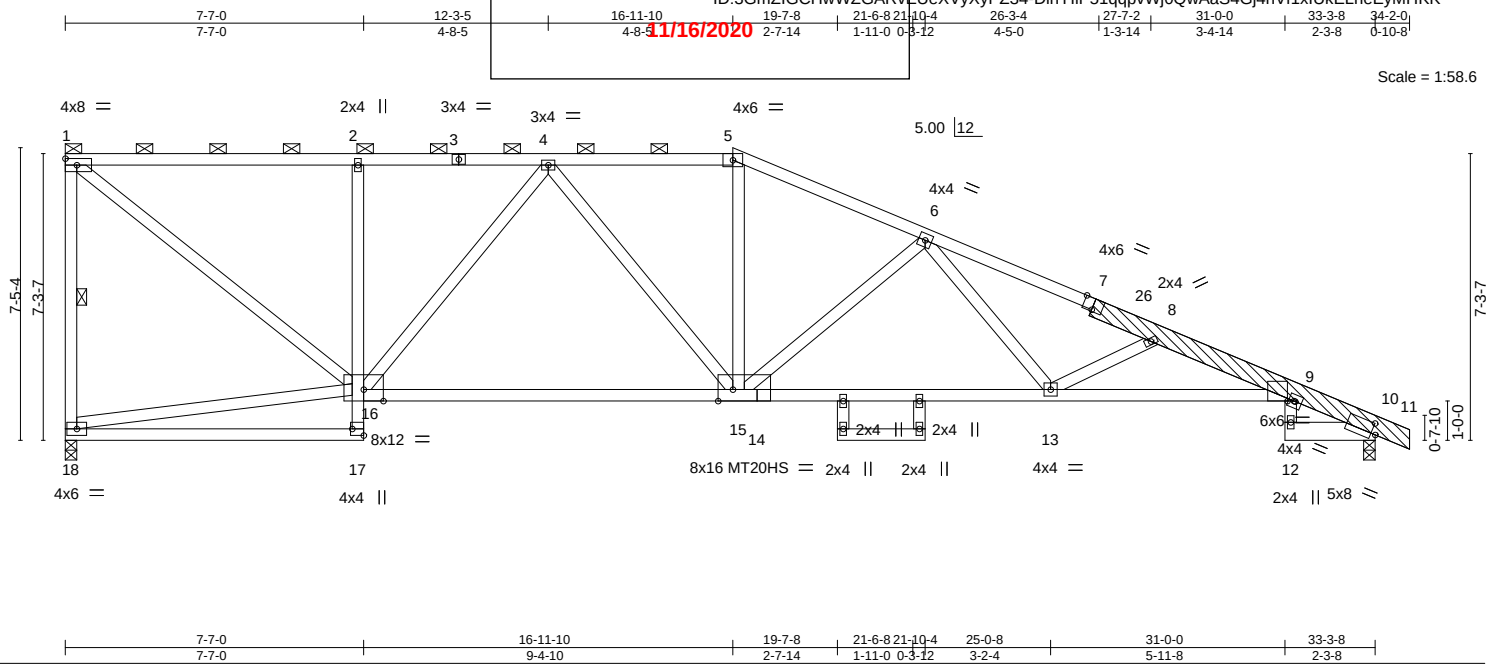





Plate Offsets (X,Y)-- [7:0-3-0,Edge], [9:0-1-15,0-0-0], [10:0-1-6,0-3-4], [14:0-0-0,0-1-12], [14:0-4-8,Edge], [15:0-1-12,0-0-0], [17:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.29 | 9-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.60 | 15-16 | >665 | 180 | MT20HS | 148/108 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.26 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 180 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 7-11: 2x6 SPF 2100F 1.8E |
| BOT CHORD | 2x4 SPF No.2 *Except* 10-12: 2x6 SPF No.2, 9-14: 2x4 SPF 1650F 1.5E |
| WEBS | 2x4 SPF No.2 |
| OTHERS | 2x6 SPF 2100F 1.8E |
| LBR SCAB | 7-11 2x6 SPF 2100F 1.8E one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-10 max.): 1-5. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 1-18 |

**REACTIONS.** (size) 18=0-3-8, 10=0-3-8
Max Horz 18=-213(LC 6)
Max Uplift 18=-80(LC 4), 10=-41(LC 9)
Max Grav 18=1491(LC 1), 10=1560(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-18=-1424/83, 1-2=-1480/95, 2-3=-1473/90, 3-4=-1473/90, 4-5=-2085/79, 5-6=-2324/76, 6-7=-3615/75, 7-26=-3663/52, 8-26=-3714/51, 8-9=-4595/131, 9-10=-557/35 |
| BOT CHORD | 2-16=-481/99, 15-16=0/1910, 14-15=0/2748, 13-14=0/2748, 9-13=-75/4437 |
| WEBS | 9-12=0/374, 1-16=-69/1878, 4-16=-696/55, 4-15=-21/274, 5-15=0/540, 6-15=-862/106, 6-13=-9/959, 8-13=-1247/135 |

**NOTES-**

1) Attached 8-9-14 scab 7 to 11, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-0 from end at joint 7, nail 2 row(s) at 7" o.c. for 2-10-12; starting at 4-9-11 from end at joint 7, nail 2 row(s) at 3" o.c. for 3-11-11.
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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 18 and 41 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE | |
|---|---|---|---|---|---|---|
| 2523903 | C12 | Roof Special | 1 | 1 | Job Reference (optional) | I43505928 |

Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 09:02:18 2020 Page 1
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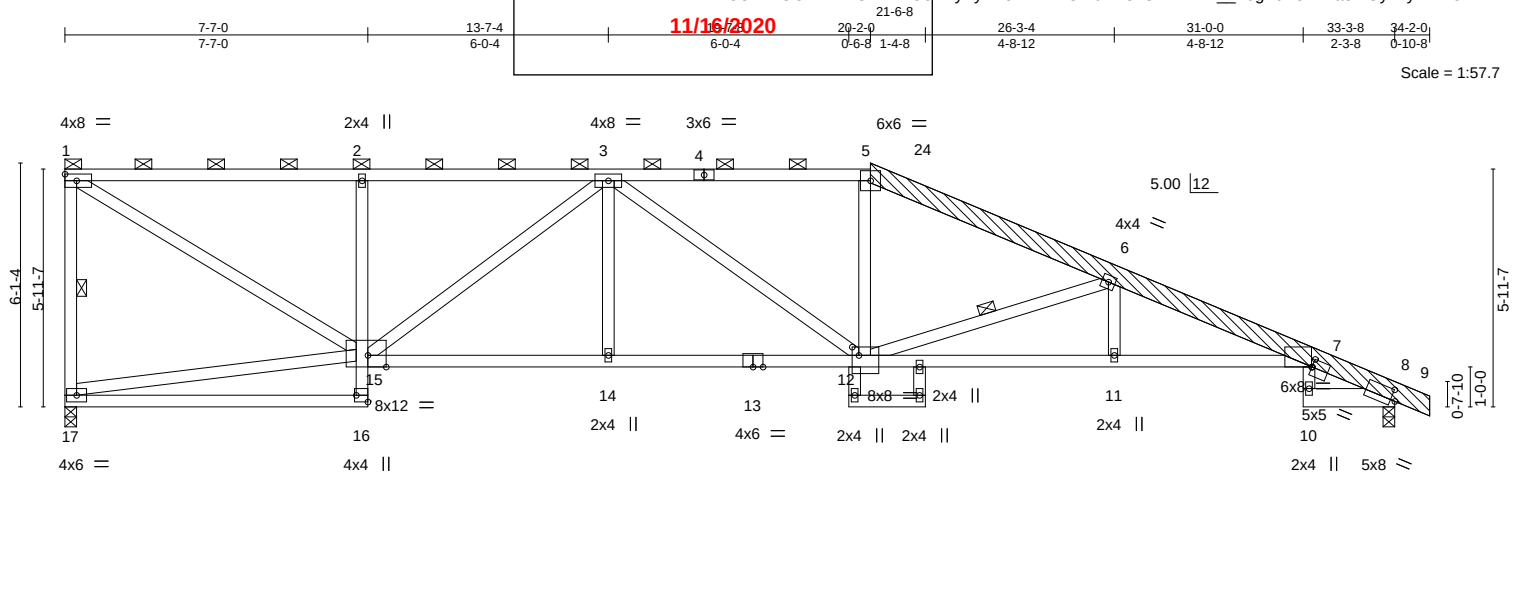


Plate Offsets (X,Y)-- [7:0-0-3,0-0-0], [7:0-0-1,0-2-7], [8:0-1-6,0-3-4], [12:0-1-12,0-0-0], [12:0-1-12,0-0-0], [12:0-2-0,0-2-8], [15:0-5-8,Edge], [16:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | -0.31 | 7-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.56 | 11-12 | >709 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.30 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 188 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 5-9: 2x6 SPF 2100F 1.8E |
| BOT CHORD | 2x4 SPF No.2 *Except* 8-10: 2x6 SPF No.2, 7-13: 2x4 SPF 1650F 1.5E |
| WEBS | 2x4 SPF No.2 |
| OTHERS | 2x6 SPF 2100F 1.8E |
| LBR SCAB | 5-9 2x6 SPF 2100F 1.8E one side |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-11-0 max.): 1-5. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 1-17, 6-12 |

**REACTIONS.** (size) 17=0-3-8, 8=0-3-8
Max Horz 17=-173(LC 6)
Max Uplift 17=-82(LC 4), 8=-27(LC 9)
Max Grav 17=1491(LC 1), 8=1560(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-17=-1414/93, 1-2=-1888/119, 2-3=-1882/115, 3-4=-2590/103, 4-5=-2590/103, 5-24=-2715/100, 6-24=-2861/86, 6-7=-4145/59, 7-8=-557/29 |
| BOT CHORD | 2-15=-502/101, 14-15=-19/2618, 13-14=-19/2618, 12-13=-19/2618, 11-12=0/3936, 7-11=0/3936 |
| WEBS | 7-10=0/374, 1-15=-98/2195, 3-15=-923/42, 3-14=0/263, 6-12=-1444/100, 6-11=0/268, 5-12=0/621 |

**NOTES-**

1) Attached 15-4-5 scab 5 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 5-7-6 from end at joint 5, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 11-2-15 from end at joint 5, nail 2 row(s) at 3" o.c. for 3-11-11.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 17 and 27 lb uplift at joint 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | C13 | ROOF SPECIAL GIRDER | 1 | 4 | I43505929 |

Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 09:02:39 2020 Page 1

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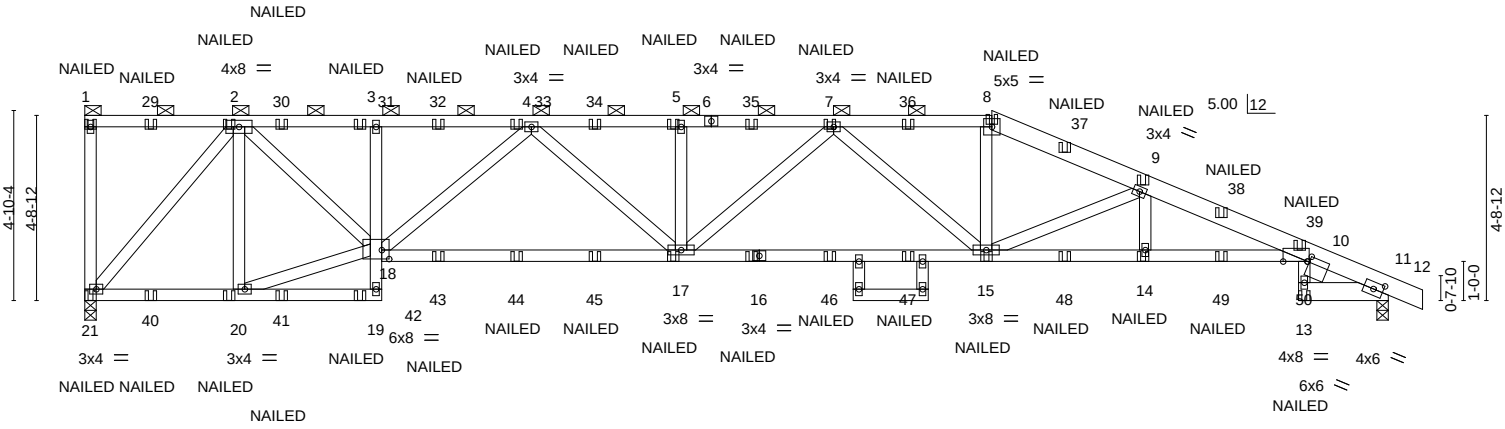
**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

| 3-11-4 | 7-7-0 | 11-4-14 | 15-2-12 | 19-1-8 | 19-7-8 | 21-6-8 | 23-2-0 | 27-1-0 | 31-0-0 | 33-3-8 | 34-2-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3-11-4 | 3-7-12 | 3-9-14 | 3-9-14 | 3-10-12 | 0-6-0 | 1-11-0 | 1-7-8 | 3-11-0 | 3-11-0 | 2-3-8 | 0-10-8 |

Scale = 1:58.8




| 3-11-4 | 7-7-0 | 15-2-12 | 19-7-8 | 21-6-8 | 23-2-0 | 27-1-0 | 31-0-0 | 33-3-8 |
|---|---|---|---|---|---|---|---|---|
| 3-11-4 | 3-7-12 | 7-7-12 | 4-4-12 | 1-11-0 | 1-7-8 | 3-11-0 | 3-11-0 | 2-3-8 |

Plate Offsets (X,Y)-- [10:0-7-7,0-0-0], [10:0-0-10,0-1-14], [11:0-3-0,0-2-2], [18:0-2-4,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.63 | Vert(LL) | -0.21 | 15-17 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.40 | 15-17 | >982 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.26 | Horz(CT) | 0.20 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MS | | | | | | | Weight: 629 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SPF No.2 *Except*
8-12: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*
11-13: 2x6 SPF No.2, 10-16: 2x4 SPF 1650F 1.5E

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 (6-0-0 max.): 1-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-13.

**REACTIONS.** (size) 21=0-3-8, 11=0-3-8
Max Horz 21=-137(LC 6)
Max Uplift 21=-460(LC 4), 11=-300(LC 5)
Max Grav 21=3134(LC 1), 11=2913(LC 1)

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

TOP CHORD 1-21=-315/103, 2-30=-4918/754, 30-31=-4918/754, 3-31=-4918/754, 3-32=-4982/761, 32-33=-4982/761, 4-33=-4982/761, 4-34=-7181/1076, 5-34=-7181/1076, 5-6=-7181/1076, 6-35=-7181/1076, 7-35=-7181/1076, 7-36=-6158/843, 8-36=-6158/843, 8-37=-6604/896, 9-37=-6659/880, 9-38=-8859/1044, 38-39=-8934/1033, 10-39=-8986/1045, 10-11=-1111/139

BOT CHORD 21-40=-283/2312, 20-40=-283/2312, 3-18=-426/126, 18-43=-892/6336, 43-44=-892/6336, 44-45=-892/6336, 17-45=-892/6336, 16-17=-944/6939, 16-46=-944/6939, 46-47=-944/6939, 15-47=-944/6939, 15-48=-950/8580, 14-48=-950/8580, 14-49=-950/8580, 49-50=-950/8580, 10-50=-950/8580, 11-13=-331/30

WEBS 10-13=-90/990, 2-21=-3531/526, 2-20=-440/156, 18-20=-287/2334, 2-18=-536/3652, 8-15=-242/2215, 9-15=-2759/263, 9-14=-20/660, 4-18=-1791/304, 4-17=-140/1136, 5-17=-385/97, 7-17=-57/324, 7-15=-1041/253

**NOTES-**

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 460 lb uplift at joint 21 and 300 lb uplift at joint 11.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

**NOTES-**

10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-8=-70, 8-12=-70, 19-21=-20, 10-18=-20, 13-26=-20

Concentrated Loads (lb)

Vert: 21=-66(F) 1=-143(F) 8=-96(F) 16=-101(F) 2=-115(F) 20=-58(F) 15=-77(F) 9=-15(F) 14=-157(F) 17=-101(F) 5=-71(F) 7=-71(F) 29=-115(F) 30=-115(F) 31=-115(F) 32=-71(F) 33=-71(F) 34=-71(F) 35=-71(F) 36=-115(F) 38=-57(F) 39=-101(F) 40=-58(F) 41=-58(F) 42=-58(F) 43=-101(F) 44=-101(F) 45=-101(F) 46=-101(F) 47=-58(F) 48=-203(F) 49=-112(F) 50=-72(F)

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | CJ1 | Jack-Open Girder | 2 | 1 | I43505930 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:48 2020 Page 1
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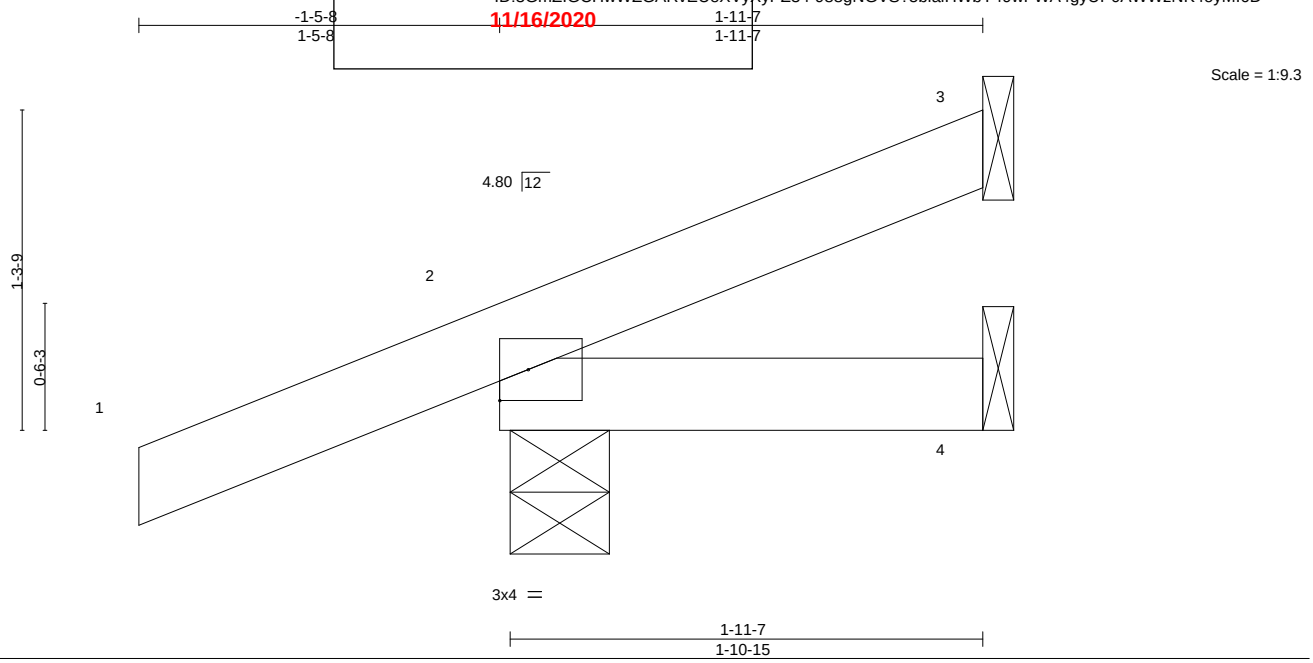



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | -0.00 | 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: 7 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-4-13, 4=Mechanical
Max Horz 2=35(LC 4)
Max Uplift 3=-12(LC 8), 2=-38(LC 4)
Max Grav 3=41(LC 1), 2=228(LC 1), 4=30(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

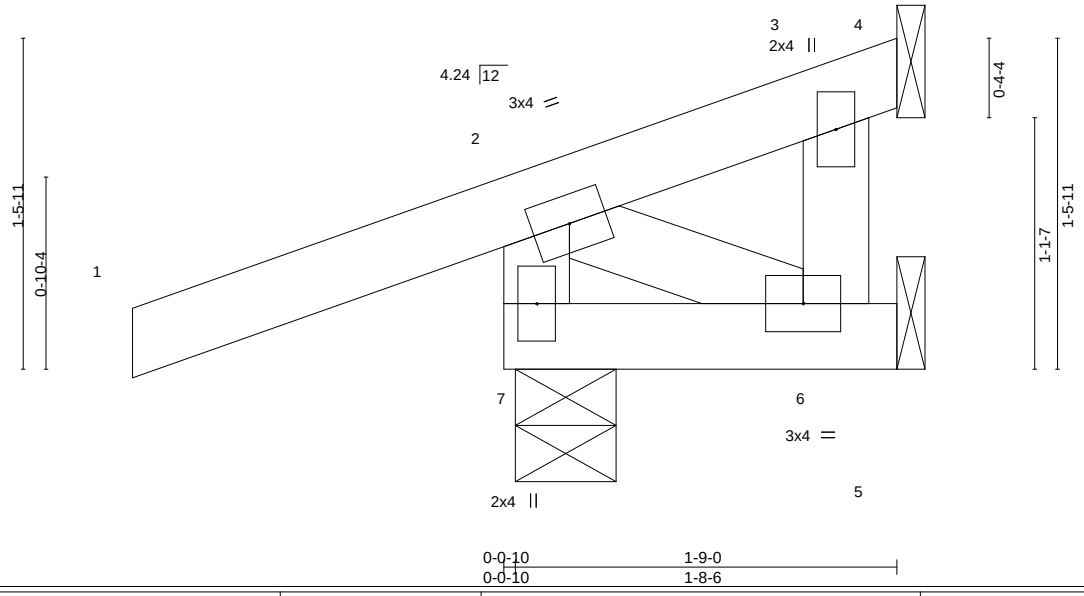
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | CJ2 | Jack-Open Girder | 1 | 1 | I43505931 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:49 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-dKi2abV4mPjcCssi9GbOTS3KS3Ih8Tvfld6tcFyMI6C

-1-7-13 1-7-13 | 1-9-0 1-9-0

Scale = 1:10.2




0-0-10 0-0-10 | 1-9-0 1-8-6

| 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 | 0.25 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.03 | Horz(CT) | -0.00 | 4 | 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 2x4 SPF No.2
WEBS 2x4 SPF No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 5=Mechanical, 7=0-5-6
Max Horz 7=38(LC 4)
Max Uplift 4=-22(LC 4), 5=-63(LC 1), 7=-64(LC 4)
Max Grav 4=64(LC 1), 5=32(LC 4), 7=268(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-268/75

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

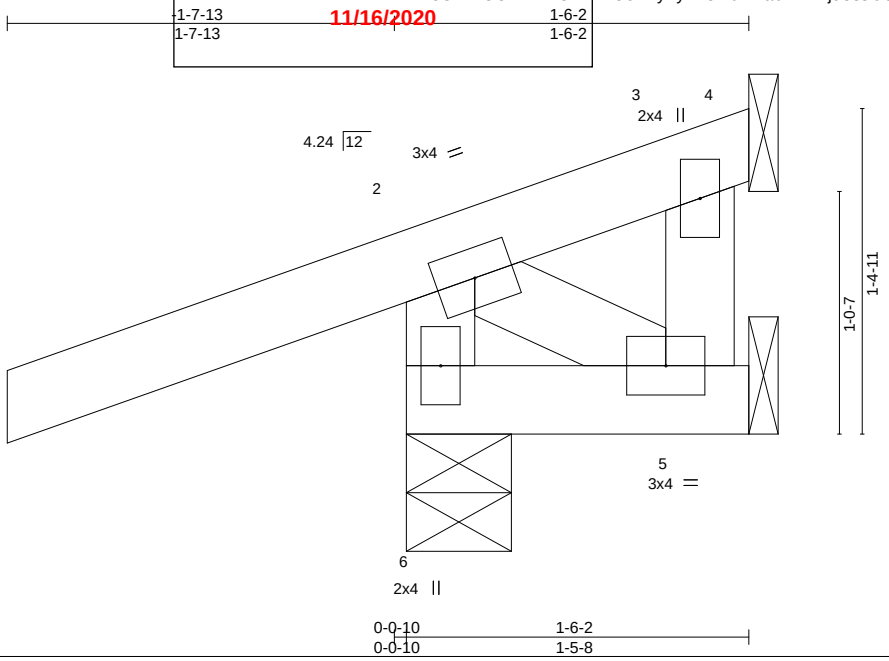
November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | CJ3 | Jack-Open | 2 | 1 | I43505932 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:49 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-dKi2abV4mPjcCssi9GbOTS3Kl3I28TifId6tcFyMI6C




| 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) | -0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | -0.00 | 6 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | -0.00 | 4 | 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 2x4 SPF No.2
WEBS 2x4 SPF No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 6=0-5-6, 5=Mechanical
Max Horz 6=36(LC 4)
Max Uplift 4=-52(LC 4), 6=-83(LC 4), 5=-177(LC 1)
Max Grav 4=114(LC 1), 6=306(LC 1), 5=80(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-295/88

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6 except (jt=lb) 5=177.
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.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | CJ4 | Jack-Open Girder | 1 | 1 | I43505933 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:50 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-5XGQoxWiXjsTq0Rviz7d0gbVrTdvtwDozHsQ8hyMI6B

-1-5-8 2-4-7
1-5-8 2-4-7

Scale: 1"=1'

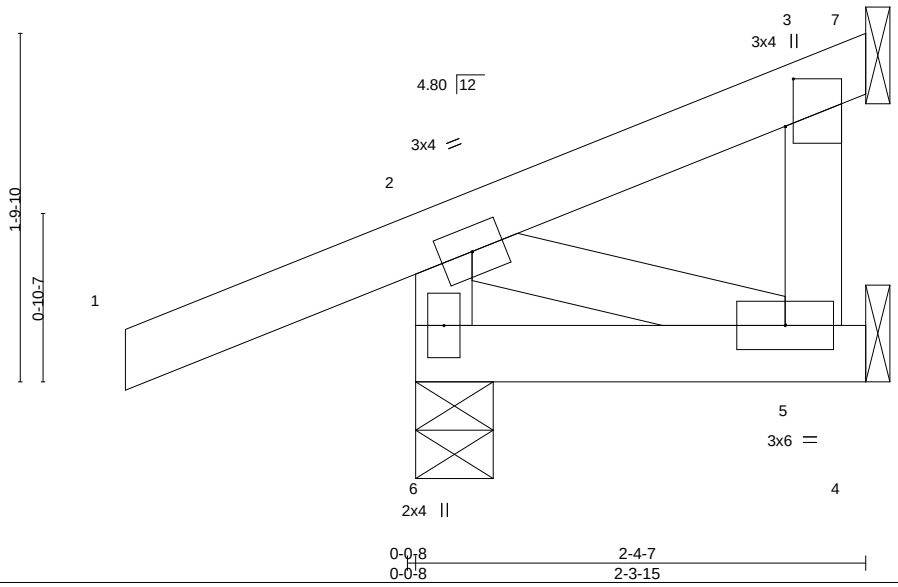



Plate Offsets (X,Y)-- [3:0-2-15,0-0-8]

| 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 | 0.21 | Vert(LL) | -0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | -0.00 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.03 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-MP | | | | | | | 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 2-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=0-4-13, 5=Mechanical, 3=Mechanical
Max Horz 6=40(LC 4)
Max Uplift 6=-36(LC 4), 3=-19(LC 8)
Max Grav 6=251(LC 1), 5=53(LC 3), 3=16(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | D1 | HIP GIRDER | 1 | 2 | I43505934 |

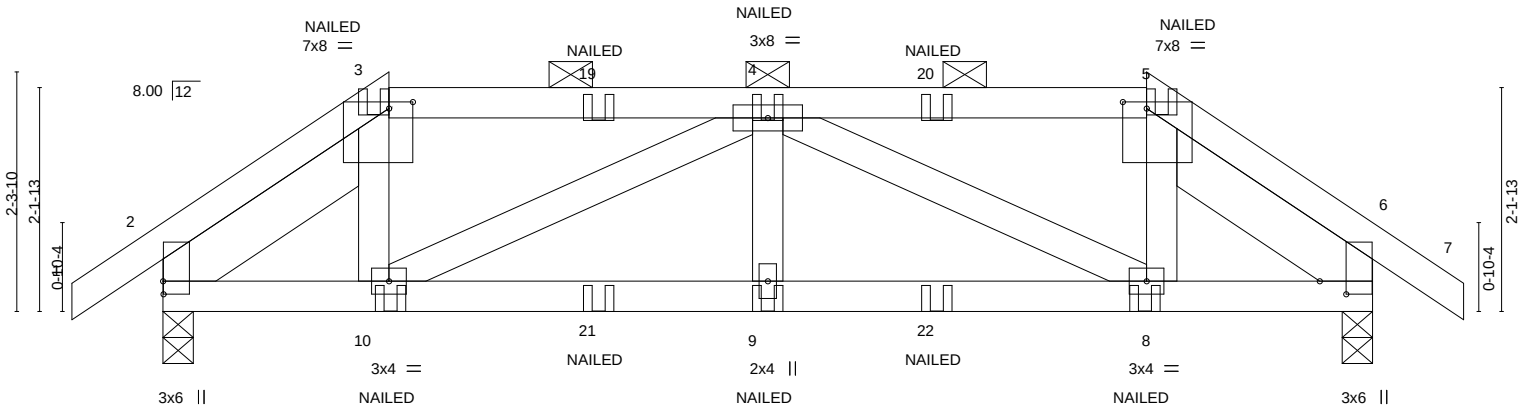
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:51 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-ajqo?HXKI0_KRA05GhesYt8gqtx2cNAyCxb_h7yMI6A

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

-0-10-8 | 2-2-1 | 5-9-12 | 9-5-7 | 11-7-8 | 12-6-0
0-10-8 | 2-2-1 | 3-7-11 | 3-7-11 | 2-2-1 | 0-10-8

Scale = 1:22.1




2-2-1 | 5-9-12 | 9-5-7 | 11-7-8
2-2-1 | 3-7-11 | 3-7-11 | 2-2-1

Plate Offsets (X,Y)-- [2:0-1-8,0-0-1], [3:0-2-12,0-0-12], [5:0-2-12,0-0-12], [6:0-1-8,0-3-1]

| 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 | 0.19 | Vert(LL) | -0.01 | 9 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.03 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MS | | | | | | | Weight: 106 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-4-8, Right 2x6 SPF No.2 2-4-8

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

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=31(LC 7)
Max Uplift 2=-90(LC 8), 6=-74(LC 9)
Max Grav 2=804(LC 1), 6=804(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1114/132, 3-4=-951/126, 4-5=-951/118, 5-6=-1114/127
BOT CHORD 2-10=-60/464, 9-10=-86/942, 8-9=-86/942, 6-8=-52/463
WEBS 3-10=0/260, 4-10=-533/46, 4-8=-544/38, 5-8=0/266

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-5=-70, 5-7=-70, 11-15=-20
Concentrated Loads (lb)
Vert: 3=-56(B) 5=-56(B) 10=-44(B) 9=-30(B) 8=-44(B) 4=-51(B) 19=-51(B) 20=-51(B) 21=-30(B) 22=-30(B)

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | D2 | Hip | 1 | 1 | I43505935 |

Job Reference (optional)

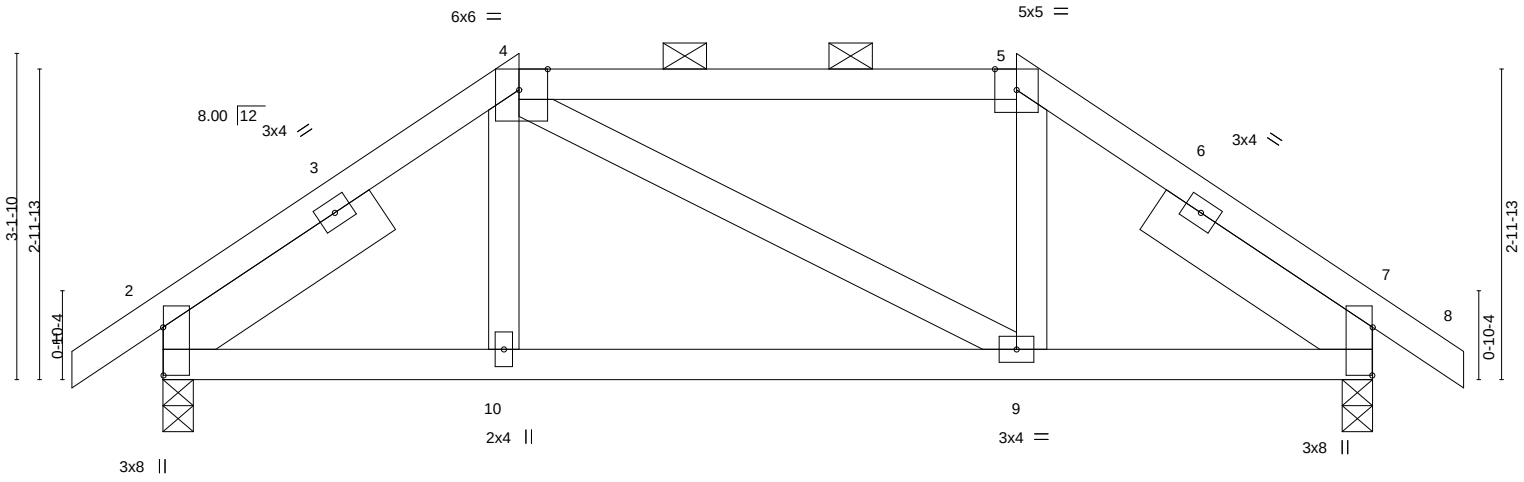
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:52 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-2vOADdYy3K6B3KbHqO9555hpbHGfLqa5RbLXDZyMI69

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

-0-10-8 / 0-10-8 | 3-5-1 / 3-5-1 | 8-2-7 / 4-9-6 | 11-7-8 / 3-5-1 | 12-6-0 / 0-10-8

Scale = 1:22.1




3-5-1 / 3-5-1 | 8-2-7 / 4-9-6 | 11-7-8 / 3-5-1

Plate Offsets (X,Y)-- [2:0-5-9,0-0-1], [4:0-3-5,Edge], [7:0-5-9,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | -0.02 | 9-10 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | -0.05 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 52 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8
Max Horz 2=52(LC 7)
Max Uplift 2=-7(LC 8), 7=-7(LC 9)
Max Grav 2=584(LC 1), 7=584(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-597/38, 4-5=-482/25, 5-7=-597/38
BOT CHORD 2-10=-13/485, 9-10=-14/482, 7-9=0/485

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


November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | D3 | Hip | 1 | 1 | I43505936 |

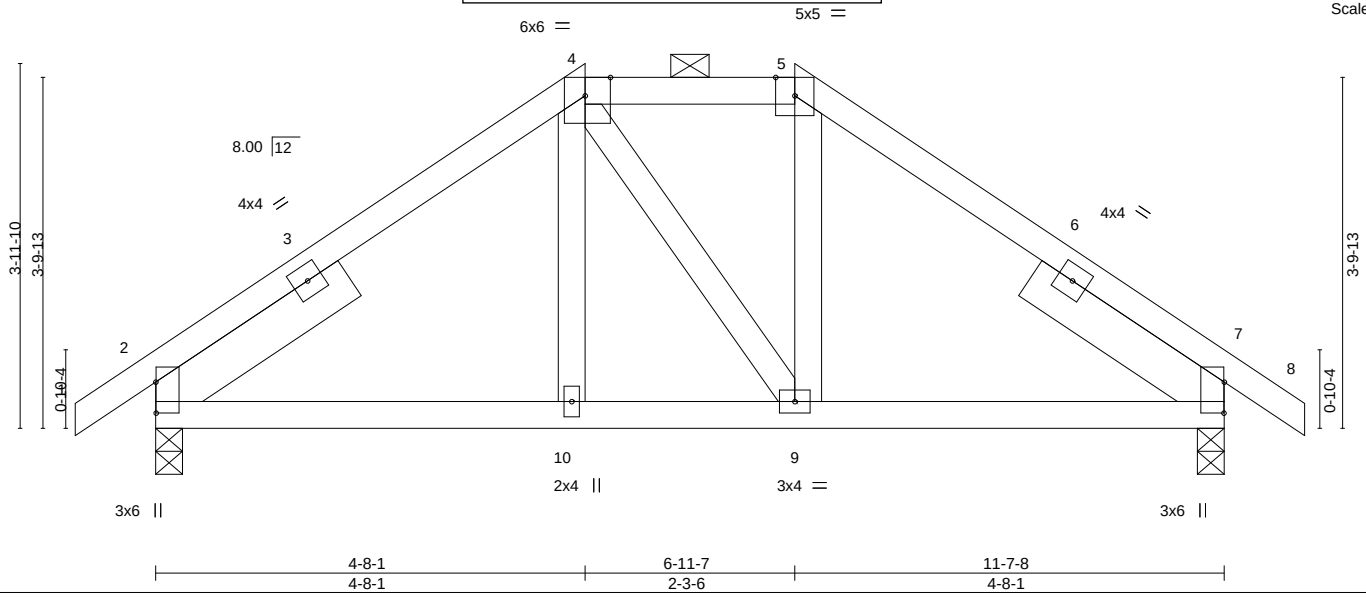
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:52 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-2vOADdYy3K6B3KbHqO9555htIHHcLqh5RbLXDZyMI69

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

-0-10-8 / 0-10-8 | 4-8-1 / 4-8-1 | 6-11-7 / 2-3-6 | 11-7-8 / 4-8-1 | 12-6-0 / 0-10-8

Scale = 1:25.1




4-8-1 / 4-8-1 | 6-11-7 / 2-3-6 | 11-7-8 / 4-8-1

Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [4:0-3-5,Edge], [7:0-4-1,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | -0.01 | 10-13 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.02 | 10-13 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 53 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8
Max Horz 2=68(LC 7)
Max Uplift 2=-13(LC 8), 7=-13(LC 9)
Max Grav 2=584(LC 1), 7=584(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-503/24, 4-5=-421/45, 5-7=-503/24
BOT CHORD 2-10=0/423, 9-10=0/420, 7-9=0/424

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | D4 | Common | 1 | 1 | I43505937 |
| | | | | | Job Reference (optional) |

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:53 2020 Page 1
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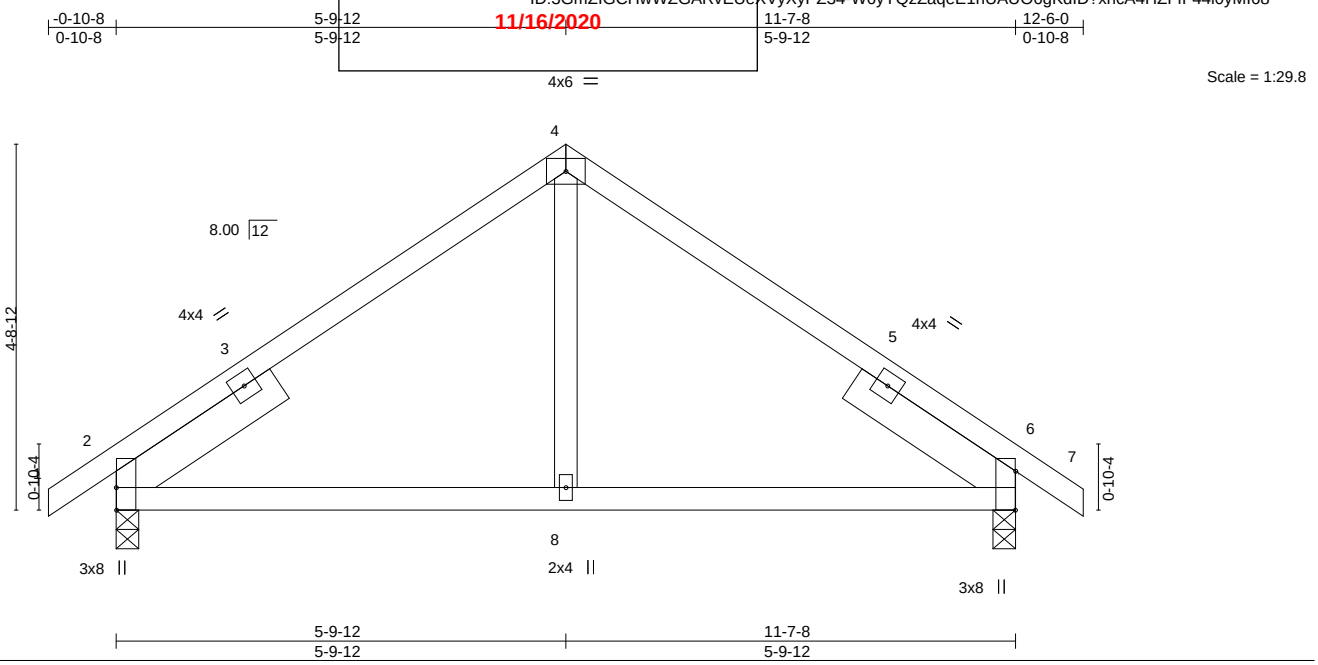


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-6-1,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.04 | 8-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.05 | 8-15 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | 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 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-84(LC 6)
Max Uplift 2=-16(LC 8), 6=-16(LC 9)
Max Grav 2=584(LC 1), 6=584(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-469/49, 4-6=-469/48
BOT CHORD 2-8=0/391, 6-8=0/391

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | LG1 | GABLE | 1 | 1 | I43505938 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:54 2020 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-_IWxeJZCbxMuIdlgxpBZAWmB54_sphkOuvqeISyMI67

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/19/2020

7-11-14 | 15-6-15 | 33-1-14 | 9-7-1

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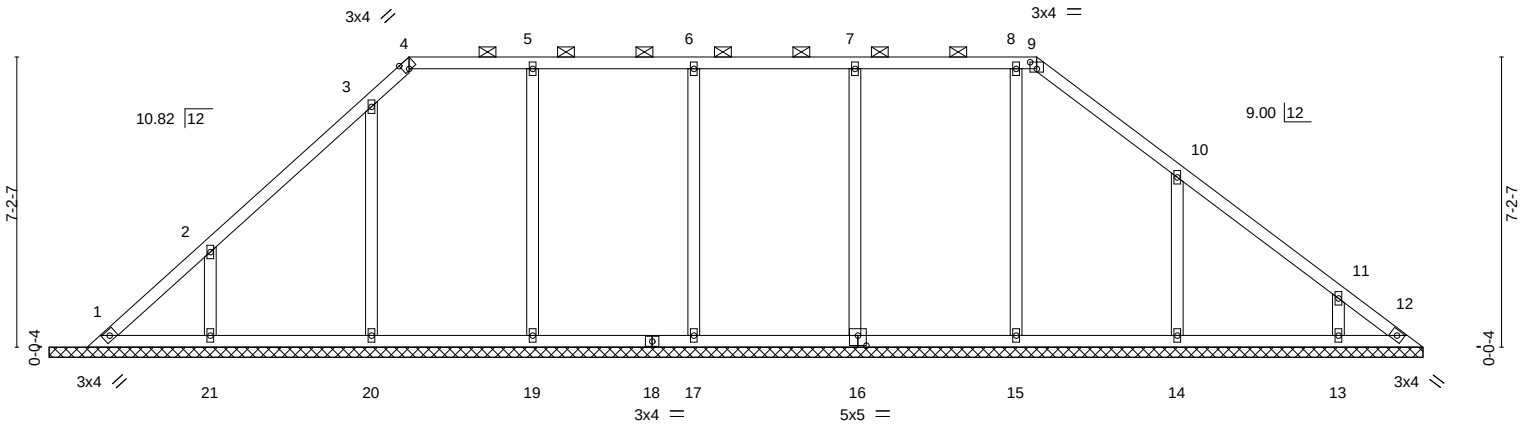


-0-11-5 | 33-1-14
0-11-5 | 33-1-14

Plate Offsets (X,Y)-- [4:0-1-11,Edge], [9:0-2-0,0-2-0], [16:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 125 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 34-1-3.
(lb) - Max Horz 1=-130(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 20, 19, 17, 16, 14, 13 except 21=-107(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 12 except 21=354(LC 13), 20=347(LC 19), 19=355(LC 19), 17=362(LC 1), 16=378(LC 19), 15=325(LC 1), 14=379(LC 14), 13=303(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-21=-277/137, 3-20=-266/81, 5-19=-276/53, 6-17=-281/55, 7-16=-298/62, 10-14=-296/117

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 20, 19, 17, 16, 14, 13 except (jt=lb) 21=107.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | LG2 | GABLE | 1 | 1 | I43505939 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:55 2020 Page 1
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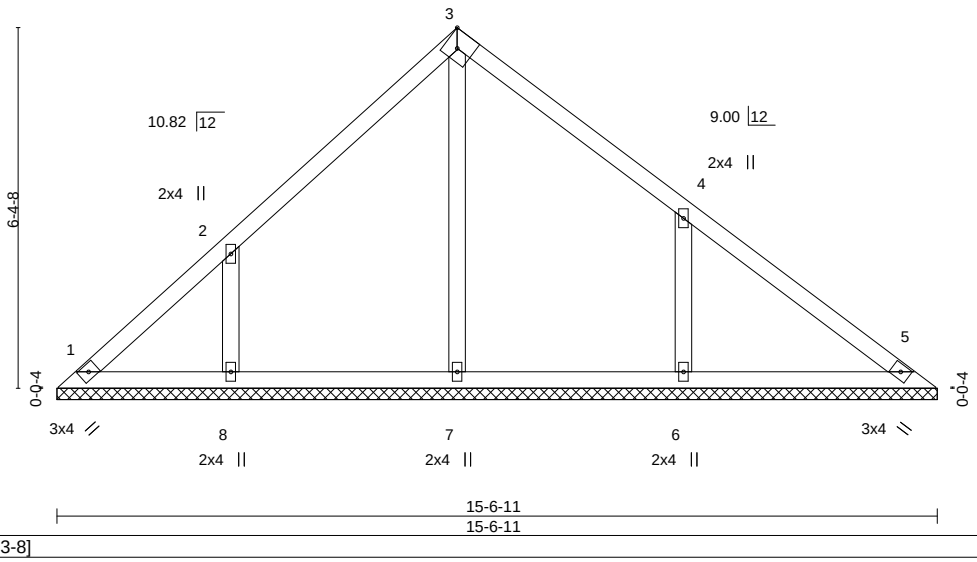


Plate Offsets (X,Y)-- [3:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 52 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 15-6-11.
(lb) - Max Horz 1=113(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6 except 8=-108(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=259(LC 1), 8=372(LC 13), 6=433(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-294/138, 4-6=-333/129

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 8=108.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | LG3 | Lay-In Gable | 1 | 1 | I43505940 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:56 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-whdh3?bT7YccYxu23ED1FxrWZug_HchhMDJlMLyMI65

**RELEASE FOR CONSTRUCTION**
**AS NOTED ON PLANS REVIEW**
**DEVELOPMENT SERVICES**
**LEE'S SUMMIT, MISSOURI**
**11/16/2020**

4-9-8 | 13-5-11
4-9-8 | 8-8-4

Scale = 1:43.5

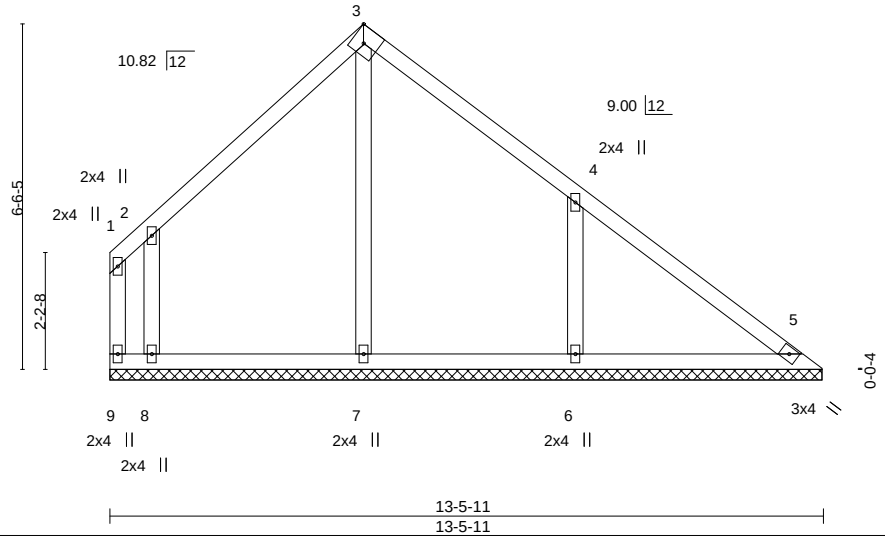


Plate Offsets (X,Y)-- [3:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 50 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 13-5-6.
(lb) - Max Horz 9=-137(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 9=-166(LC 13), 8=-140(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=313(LC 1), 8=439(LC 13), 6=446(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-342/169, 4-6=-343/132

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 9=166, 8=140.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | LG4 | GABLE | 1 | 1 | I43505941 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:57 2020 Page 1
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13-5-13 22-10-8
13-5-13 9-4-11

Scale = 1:43.3

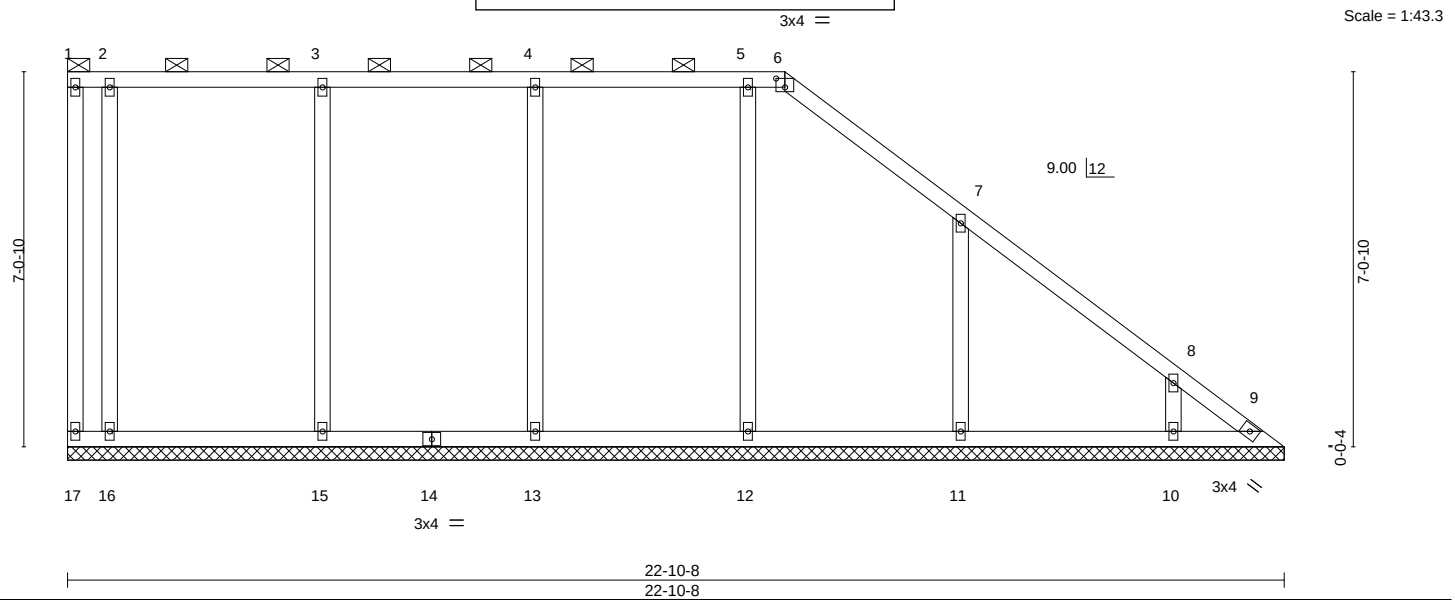


Plate Offsets (X,Y)-- [6:0-2-0,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 97 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 22-10-8.
(lb) - Max Horz 17=-196(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 17, 9, 16, 15, 13, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 17, 9 except 16=321(LC 1), 15=373(LC 1), 13=358(LC 1), 12=356(LC 1), 11=381(LC 14), 10=302(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=-292/58, 4-13=-278/67, 5-12=-277/85, 7-11=-298/114

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9, 16, 15, 13, 12, 11, 10.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M1 | Half Hip Girder | 2 | 1 | I43505942 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:57 2020 Page 1
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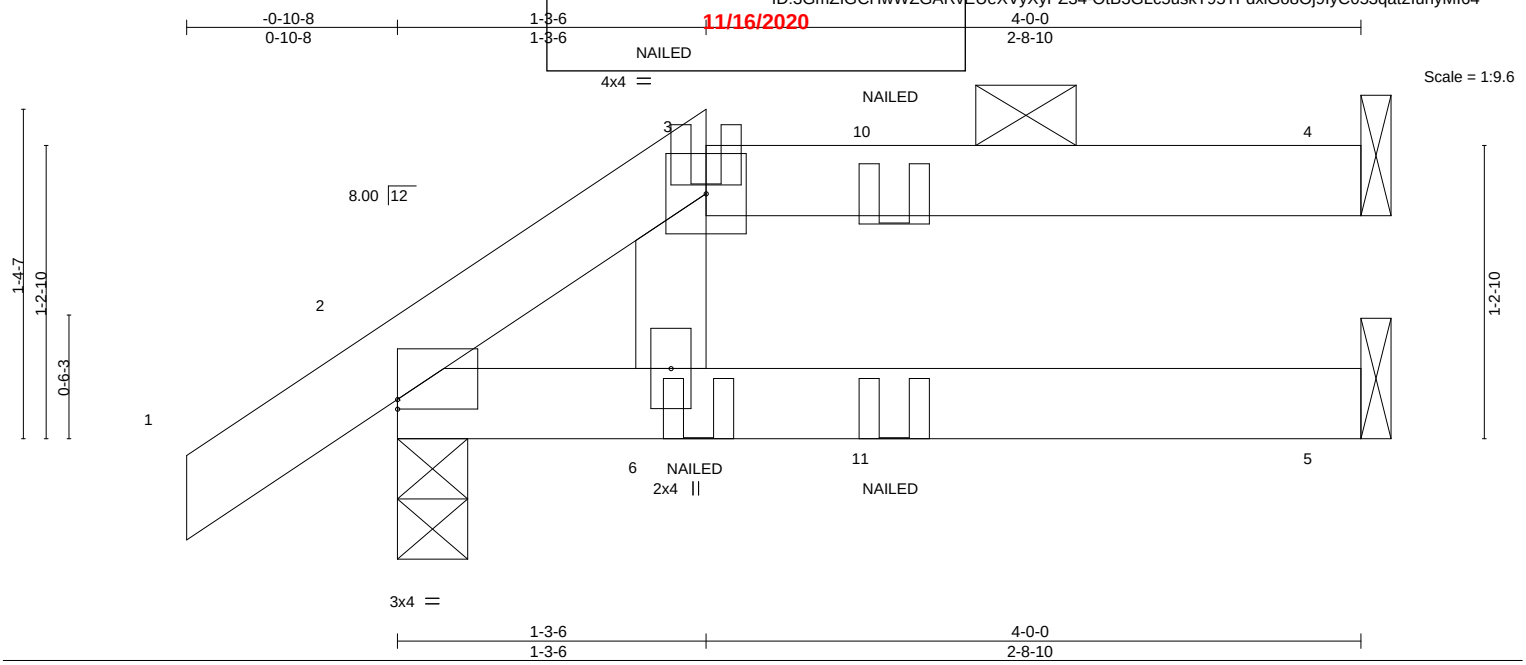



Plate Offsets (X,Y)-- [2:0-0-0,0-0-8]

| 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 | 0.14 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.04 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.03 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MP | | | | | | | Weight: 12 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=31(LC 8)
Max Uplift 4=-18(LC 4), 2=-10(LC 8)
Max Grav 4=93(LC 1), 2=245(LC 1), 5=91(LC 3)

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

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

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 6=5(B) 11=-6(B)


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

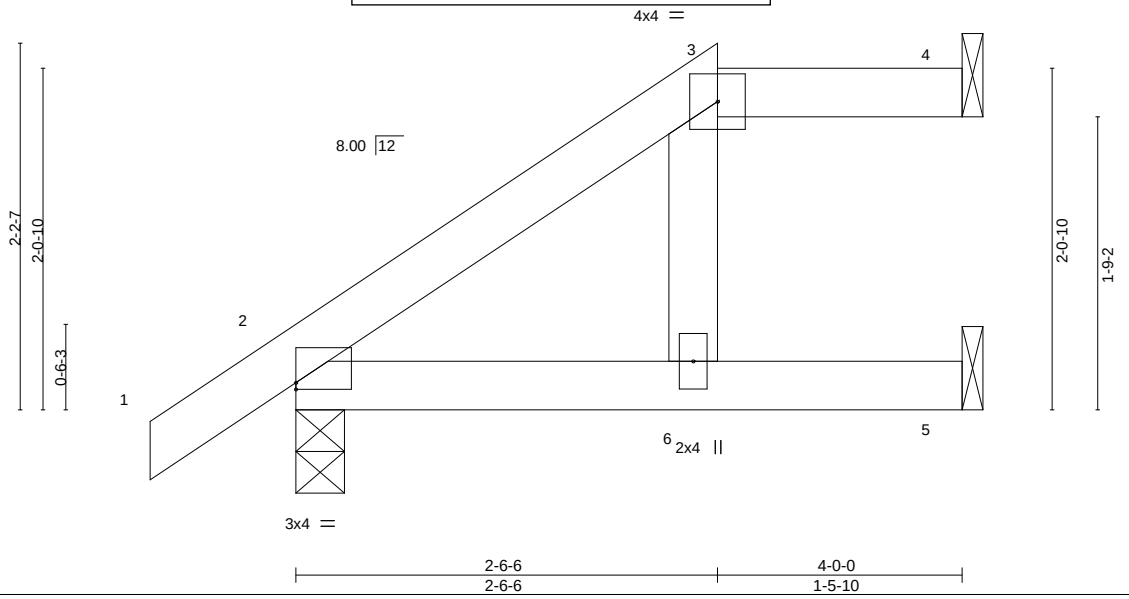
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M2 | Jack-Open | 2 | 1 | I43505943 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:05 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-9Pg5x4i6?JkK7K4n5du87qj5ZWgtui40Q6_j9JyMl5y

-0-10-8 / 0-10-8 | 2-6-6 / 2-6-6 | 4-0-0 / 1-5-10

Scale = 1:13.8




2-6-6 / 2-6-6 | 4-0-0 / 1-5-10

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

| 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 | 0.11 | Vert(LL) | -0.03 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.05 | 6-9 | >969 | 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: 13 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=52(LC 8)
Max Uplift 4=-10(LC 4), 2=-6(LC 8), 5=-5(LC 8)
Max Grav 4=49(LC 1), 2=245(LC 1), 5=121(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M3 | Jack-Open | 6 | 1 | I43505944 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:10 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-WNT_?nmFqsNdD5zltAUJquQwxXQ_ZzclaOiUrXyMI5t

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

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

Scale = 1:18.8

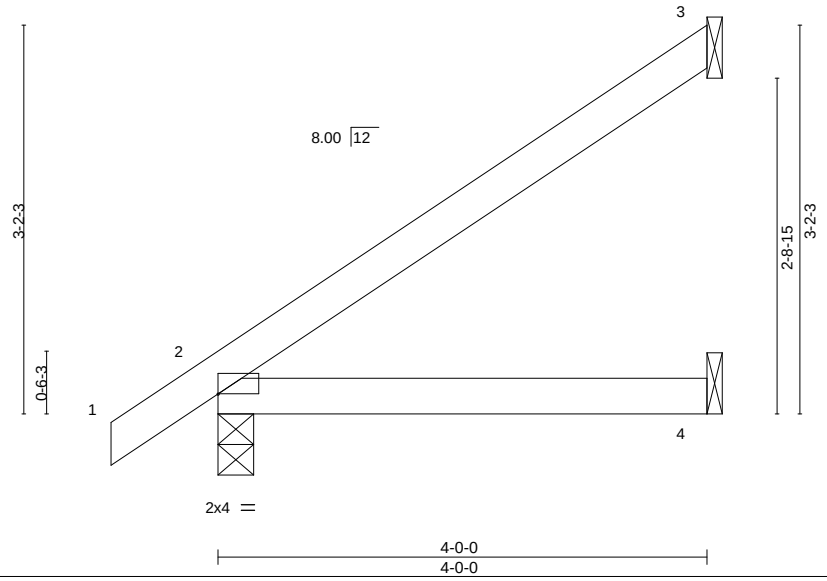



Plate Offsets (X,Y)-- [2:0-0-0,0-0-0]

| 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 | 0.20 | Vert(LL) | -0.01 | 4-7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 4-7 | >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-AS | | | | | | | Weight: 11 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 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=79(LC 8)
Max Uplift 3=-41(LC 8)
Max Grav 3=121(LC 13), 2=245(LC 1), 4=73(LC 3)

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

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



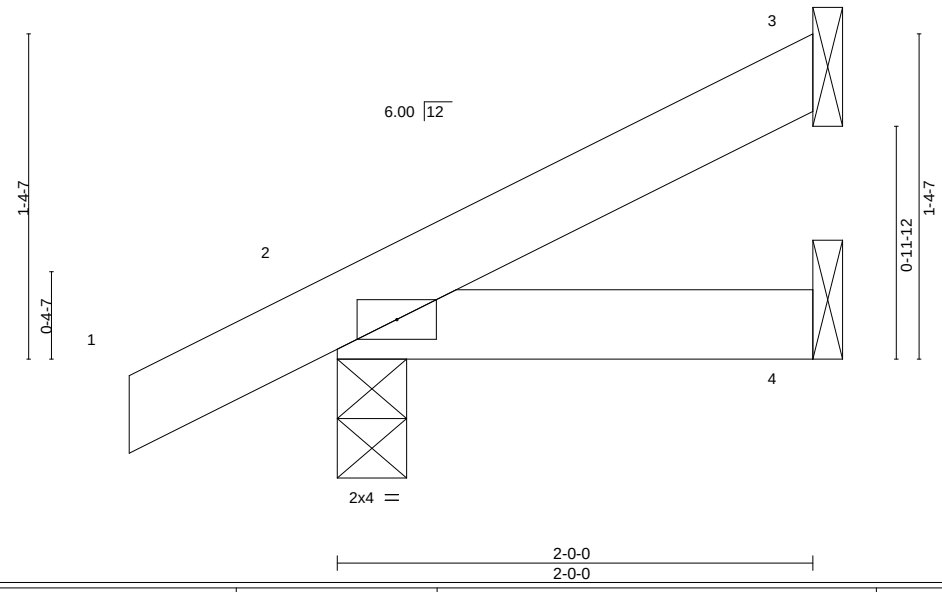

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M4 | Jack-Open | 2 | 1 | I43505945 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:10 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-WNT_?nmFqsNdD5zltAUJquQzFXShZzclaOiUrXyMI5t

-0-10-8 2-0-0
0-10-8 2-0-0

Scale = 1:9.7




| 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 | 0.05 | Vert(LL) | -0.00 | 7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | 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 | 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 2x4 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=34(LC 8)
Max Uplift 3=-13(LC 8), 2=-7(LC 8)
Max Grav 3=52(LC 1), 2=164(LC 1), 4=34(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M5 | Jack-Open | 15 | 1 | I43505946 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:11 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-_Z1MC7ntb9VUrFYxRu?YM5z1RxjvIQsuo2R1NzyMI5s

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

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

Scale = 1:27.9

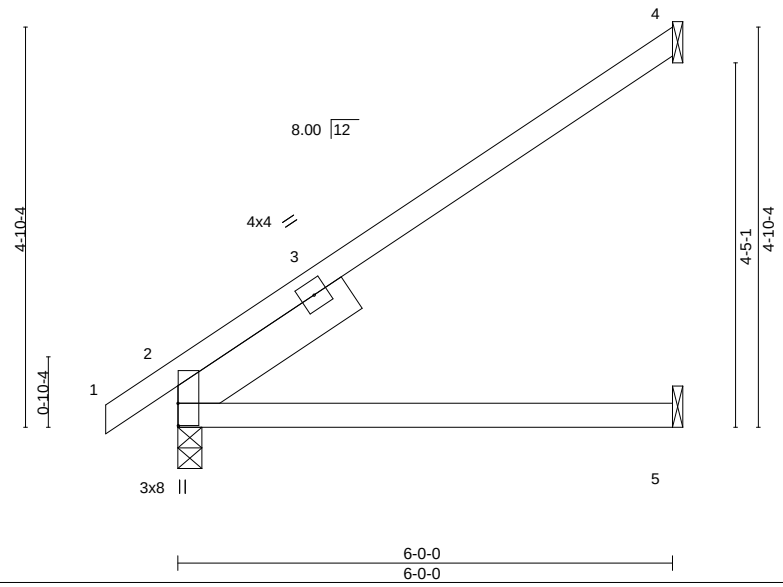



Plate Offsets (X,Y)-- [2:0-3-4,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | -0.06 | 5-8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(CT) | -0.13 | 5-8 | >551 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.04 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 21 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 4=-64(LC 8)
Max Grav 4=187(LC 13), 2=333(LC 1), 5=105(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-319/86

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M6 | Jack-Open | 6 | 1 | I43505947 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:11 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-_Z1MC7ntb9VUrFYxRu?YM5z4Zxh_IQsuo2R1NzyMI5s

**RELEASE FOR CONSTRUCTION**
**AS NOTED ON PLANS REVIEW**
**DEVELOPMENT SERVICES**
**LEE'S SUMMIT, MISSOURI**
**11/16/2020**

-0-10-8 / 0-10-8 | 3-8-0 / 3-8-0 | 6-0-0 / 2-4-0

Scale = 1:27.9

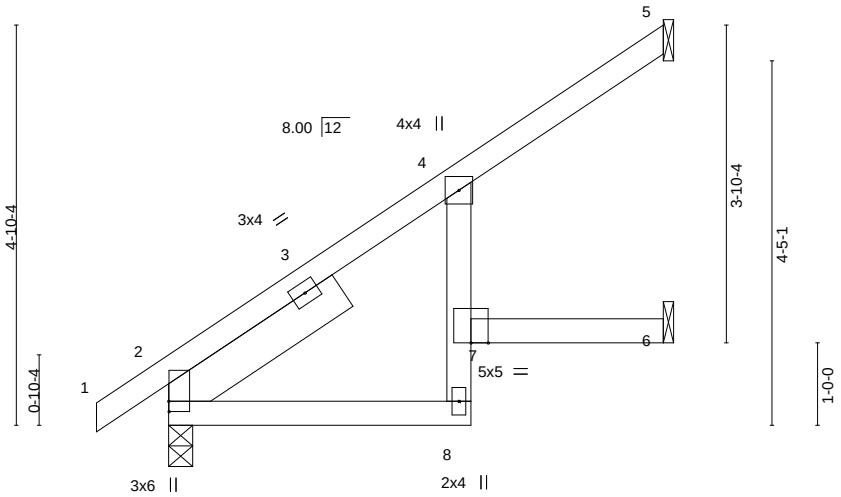



Plate Offsets (X,Y)-- [2:0-1-8,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.04 | 7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.08 | 6-7 | >908 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 24 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 5=-41(LC 8), 6=-17(LC 8)
Max Grav 5=142(LC 13), 2=333(LC 1), 6=124(LC 13)

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

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


November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M7 | Jack-Open | 1 | 1 | I43505948 |

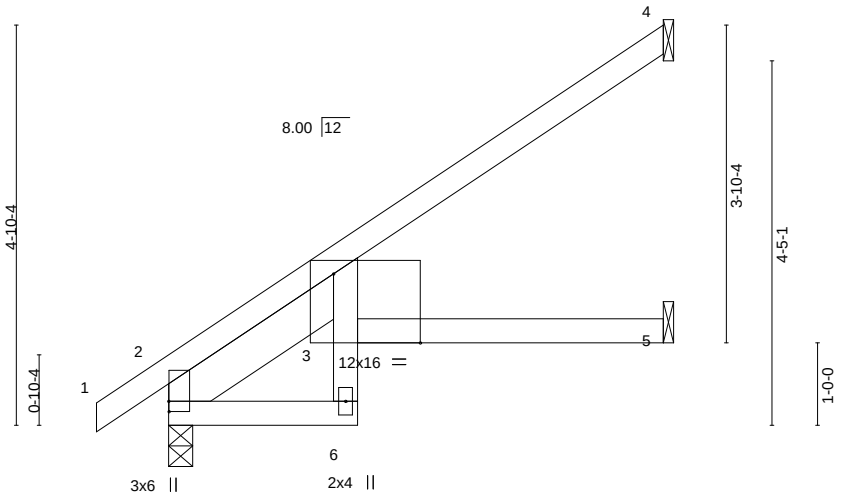
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:12 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-SmbkPTnVMTdLTO77?bWnvJWEZL101t621iBbvPyMI5r

**RELEASE FOR CONSTRUCTION**
**AS NOTED ON PLANS REVIEW**
**DEVELOPMENT SERVICES**
**LEE'S SUMMIT, MISSOURI**
**11/16/2020**

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

Scale = 1:27.9




2-3-8 6-0-0
2-3-8 3-8-8

Plate Offsets (X,Y)-- [2:0-1-8,0-0-1], [3:1-0-10,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 | 0.38 | Vert(LL) | -0.08 | 3-5 | >913 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.14 | 3-5 | >495 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.15 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 23 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-4

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 4=-52(LC 8), 5=-5(LC 8)
Max Grav 4=168(LC 13), 2=333(LC 1), 5=103(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-8=-361/79

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M8 | Jack-Open | 1 | 1 | I43505949 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:13 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-wy96dpo76nlC4YiKZI10RW2KnlM8mKgBGMw8SsyMI5q

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0-10-8 2-3-8 2-6-1 1-2-7

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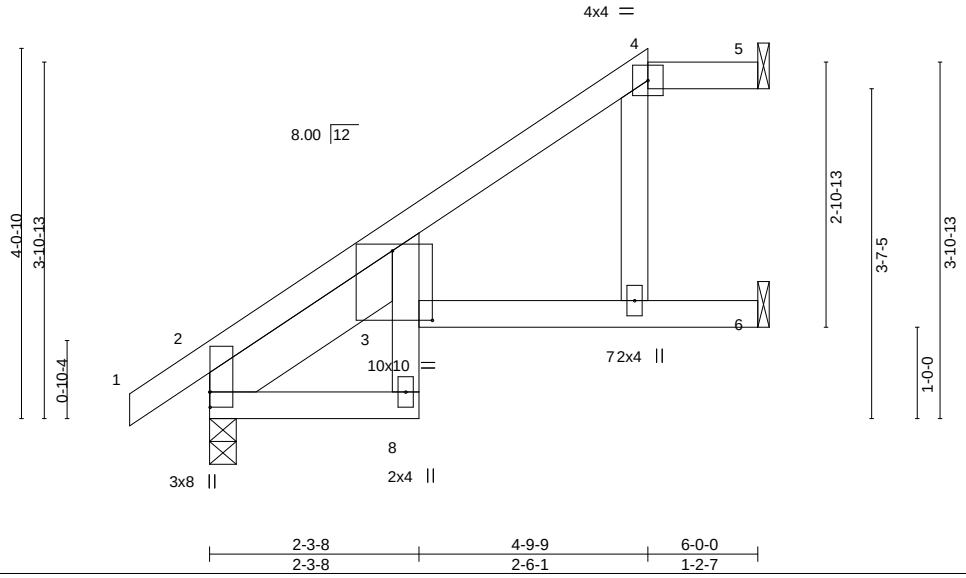


2-3-8 4-9-9 6-0-0
2-3-8 2-6-1 1-2-7

Plate Offsets (X,Y)-- [2:0-2-0,0-0-1], [3:0-5-4,0-9-2]

| 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 | 0.67 | Vert(LL) | -0.13 | 8 | >537 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.24 | 8 | >301 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.25 | 6 | 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 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-4

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=91(LC 8)
Max Uplift 5=-8(LC 4), 6=-31(LC 8)
Max Grav 5=40(LC 1), 2=333(LC 1), 6=223(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-10=-568/140
WEBS 4-7=-274/69

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M9 | Jack-Open | 1 | 1 | I43505950 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:13 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-wy96dpo76nlC4YiKZI10RW2KEllNmKVBGMw8SsyMl5q

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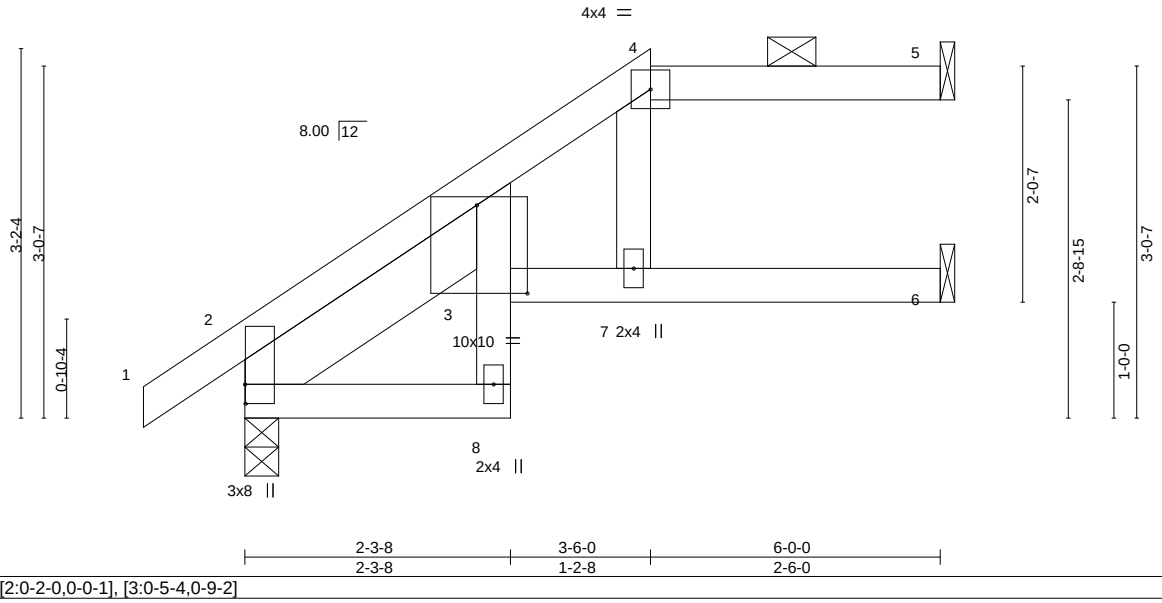
Scale = 1:19.9




2-3-8 2-3-8 | 3-6-0 1-2-8 | 6-0-0 2-6-0

Plate Offsets (X,Y)-- [2:0-2-0,0-0-1], [3:0-5-4,0-9-2]

| 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 | 0.64 | Vert(LL) | -0.15 | 3-7 | >469 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.28 | 3-7 | >256 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.25 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 24 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-4

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=69(LC 8)
Max Uplift 5=-16(LC 4), 2=-2(LC 8), 6=-8(LC 8)
Max Grav 5=85(LC 1), 2=333(LC 1), 6=177(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-10=-562/112
WEBS 4-7=-412/70

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

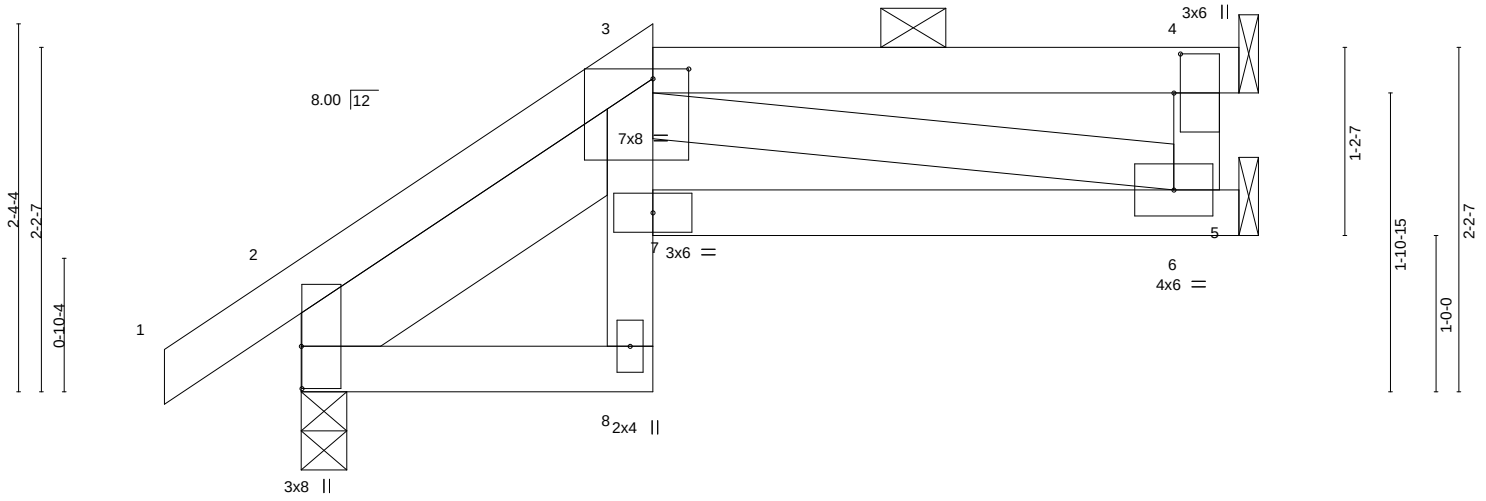
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M10 | Jack-Open | 1 | 1 | I43505951 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:58 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-s3lRTgcjfAsKnF2RAfGVKMxtAiKKlSN_pXorRDyMI63

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

Scale = 1:14.7




2-3-0 2-3-8 6-0-0
2-3-0 0-0-8 3-8-8

Plate Offsets (X,Y)-- [2:0-3-4,0-0-1], [3:0-2-12,0-0-12], [4:0-3-0,0-0-8]

| 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 | 0.25 | Vert(LL) | -0.02 | 7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | -0.03 | 7 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 27 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-5-10

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

**REACTIONS.** (size) 2=0-3-8, 4=Mechanical, 6=Mechanical
Max Horz 2=47(LC 8)
Max Uplift 2=-14(LC 8), 4=-25(LC 4)
Max Grav 2=324(LC 1), 4=127(LC 1), 6=145(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-258/15
BOT CHORD 6-7=-69/494
WEBS 3-6=-502/70

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M11 | Jack-Open Girder | 1 | 1 | I43505952 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:08:59 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-LGJqh0dLPT_BPPddkMnktZTzg5fqU_H72BXPzfyMI62

-0-10-8 1-0-0 6-0-0
0-10-8 1-0-0 5-0-0

Scale = 1:13.8

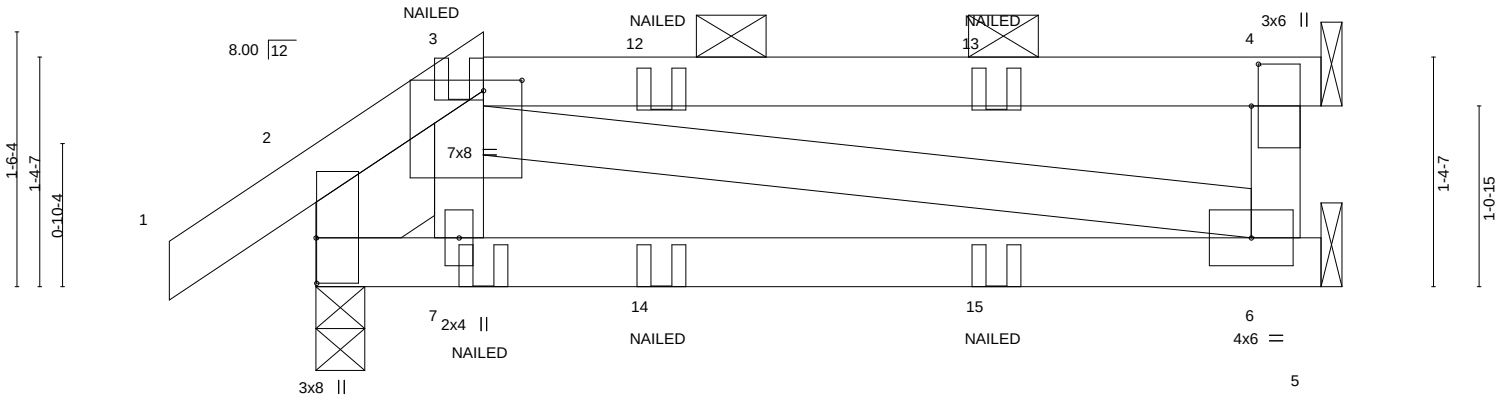



Plate Offsets (X,Y)-- [2:0-3-4,0-0-1], [3:0-2-12,0-0-12], [4:0-3-0,0-0-8]

| 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 | 0.52 | Vert(LL) | -0.02 | 6-7 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(CT) | -0.04 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.10 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MP | | | | | | | Weight: 24 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 0-11-10

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

**REACTIONS.** (size) 2=0-3-8, 4=Mechanical, 6=Mechanical
Max Horz 2=23(LC 35)
Max Uplift 2=-50(LC 8), 4=-38(LC 4)
Max Grav 2=305(LC 1), 4=171(LC 1), 6=133(LC 3)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-8=-20
Concentrated Loads (lb)
Vert: 3=-3(F) 7=32(F) 14=-6(F) 15=-6(F)


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M12 | Jack-Open | 2 | 1 | I43505953 |
| | | | | | Job Reference (optional) |



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:00 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-pStCuMezAn620YCqI4IzQn0GnV2WDS7HGrHyV6yMI61

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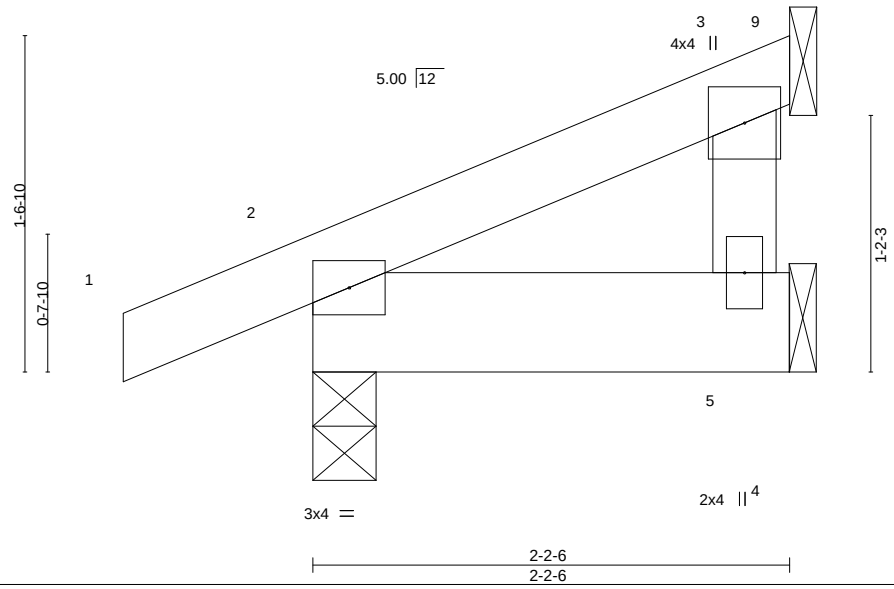
0-10-8 2-2-6

Scale = 1:10.6




| 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 | 0.05 | Vert(LL) | -0.00 | 8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | -0.00 | 8 | >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
WEBS 2x4 SPF No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 5=Mechanical, 3=Mechanical
Max Horz 2=30(LC 8)
Max Uplift 2=-12(LC 4), 3=-20(LC 8)
Max Grav 2=166(LC 1), 5=42(LC 3), 3=58(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M13 | Jack-Open Girder | 2 | 1 | I43505954 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:00 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-pStCuMezAn620YCqI4IzQn0F?V0dDS8HGrHyV6yMI61

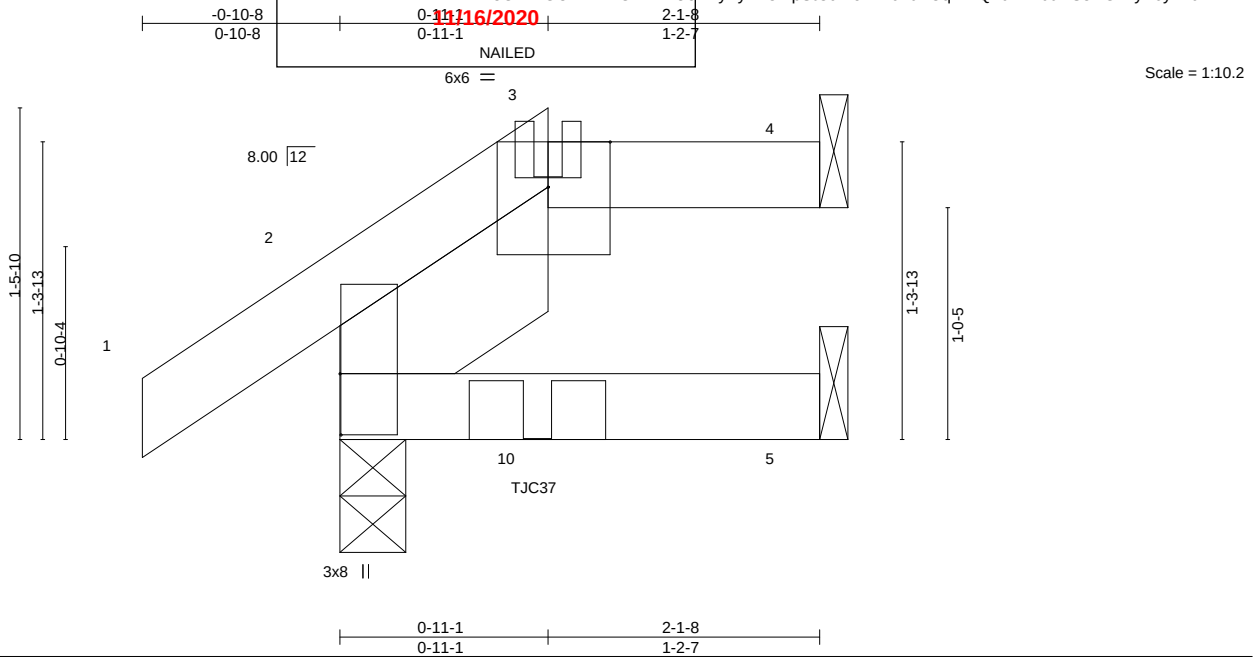



Plate Offsets (X,Y)-- [2:0-3-4,0-0-1], [3:0-3-5,Edge]

| 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 | 0.10 | Vert(LL) | -0.00 | 8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | 0.01 | 5-8 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | -0.01 | 4 | 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 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 1-2-11

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except 2-0-0 oc purlins: 3-4.
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=24(LC 35)
Max Uplift 4=-8(LC 4), 2=-63(LC 8), 5=-47(LC 14)
Max Grav 4=40(LC 1), 2=177(LC 39), 5=61(LC 33)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 0-10-8 from the left end to connect truss(es) to back face of bottom chord, skewed 32.0 deg.to the right, sloping 0.0 deg. down.
10) Fill all nail holes where hanger is in contact with lumber.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-31(B) 10=48(B)

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M14 | Jack-Open Girder | 2 | 1 | I43505955 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:01 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-HeRa6ifbx5Evein0snpCy_ZNvvLzyvOQVV0W1YyMI60



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

Scale = 1:14.4

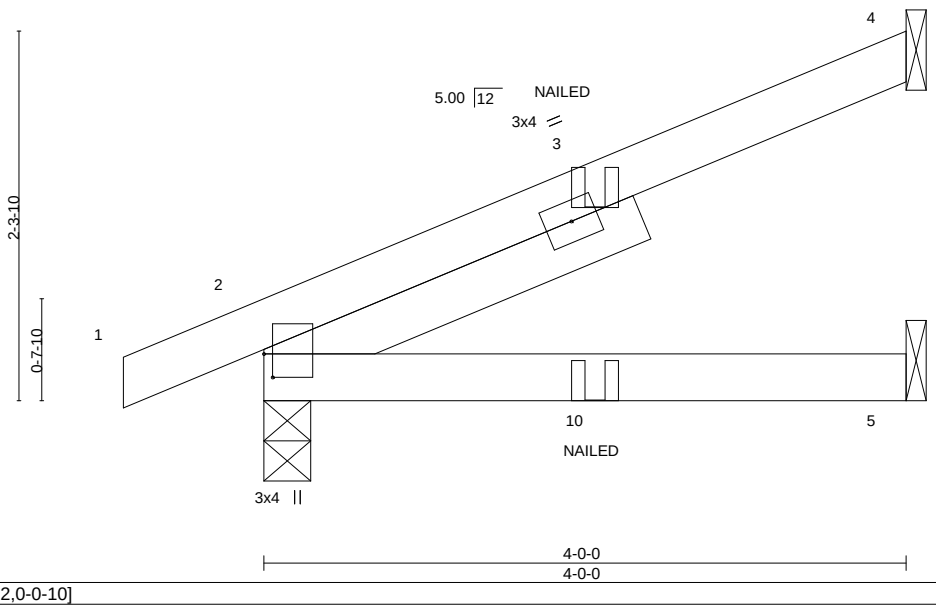



Plate Offsets (X,Y)-- [2:0-1-12,0-0-10]

| 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 | 0.28 | Vert(LL) | -0.02 | 5-8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.03 | 5-8 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-MP | | | | | | | Weight: 14 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=49(LC 8)
Max Uplift 4=-37(LC 8), 2=-31(LC 8), 5=-13(LC 8)
Max Grav 4=126(LC 1), 2=263(LC 1), 5=67(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-36(F)


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M15 | Jack-Open | 8 | 1 | I43505956 |
| | | | | | Job Reference (optional) |



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:02 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-lq_yJ2gEiOMmGsMCPVKRVC5ZqJiEhLeZk9m3a_yMI6?

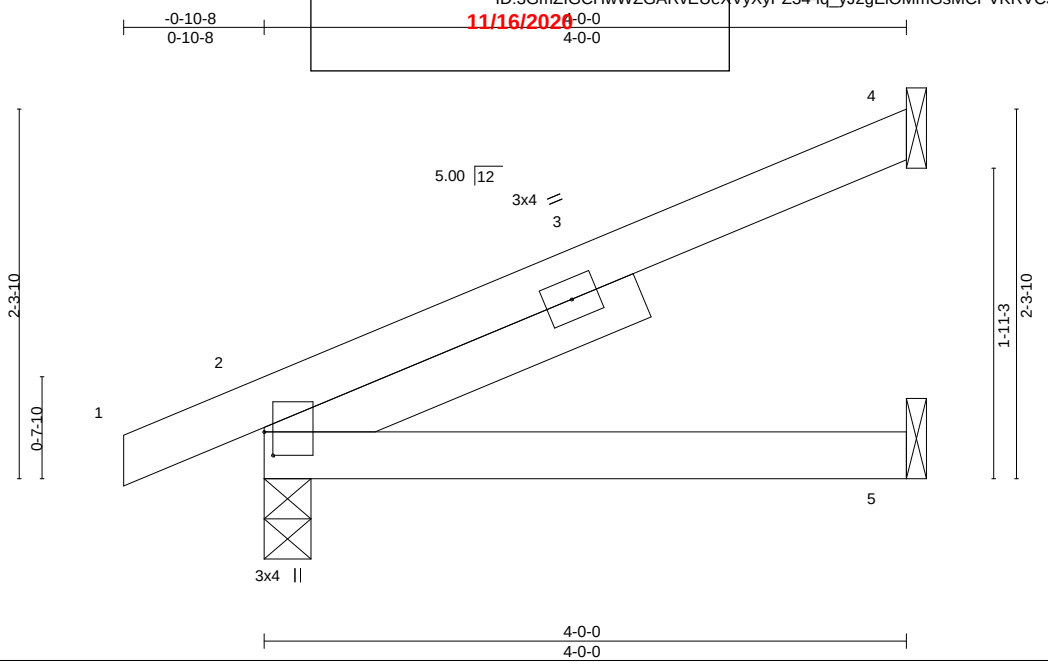



Plate Offsets (X,Y)-- [2:0-1-12,0-0-10]

| 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 | 0.21 | Vert(LL) | -0.01 | 5-8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 5-8 | >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: 14 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=49(LC 8)
Max Uplift 4=-28(LC 8), 2=-6(LC 8)
Max Grav 4=121(LC 1), 2=245(LC 1), 5=66(LC 3)

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

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M16 | Monopitch | 1 | 1 | I43505957 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:02 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-lq_yJ2gEiOMmGsMCPVKRVC5TSJfvhLeZk9m3a_yMI6?

-0-10-8 5-9-12
0-10-8 5-9-12

Scale = 1:28.0

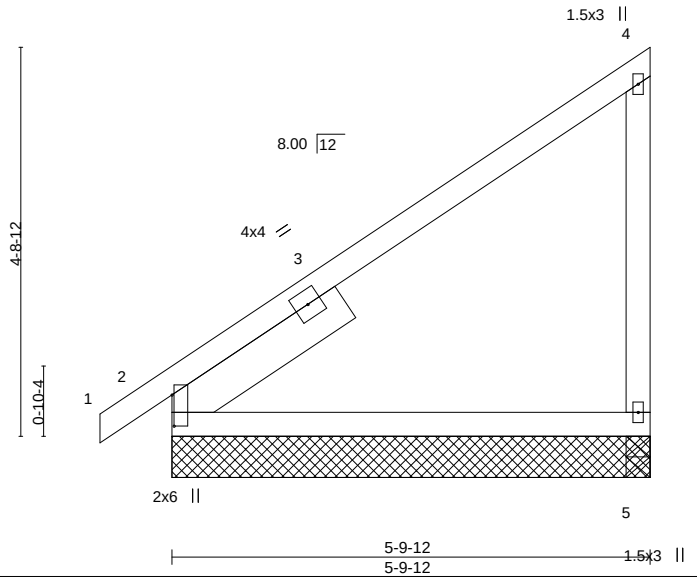



Plate Offsets (X,Y)-- [2:0-4-9,0-0-5]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | -0.06 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.12 | 2-5 | >550 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-P | | | | | | | Weight: 25 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=5-9-12, 5=5-9-12, 2=5-9-12
Max Horz 2=126(LC 5)
Max Uplift 5=-40(LC 5), 2=-3(LC 8)
Max Grav 5=261(LC 13), 5=250(LC 1), 2=321(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

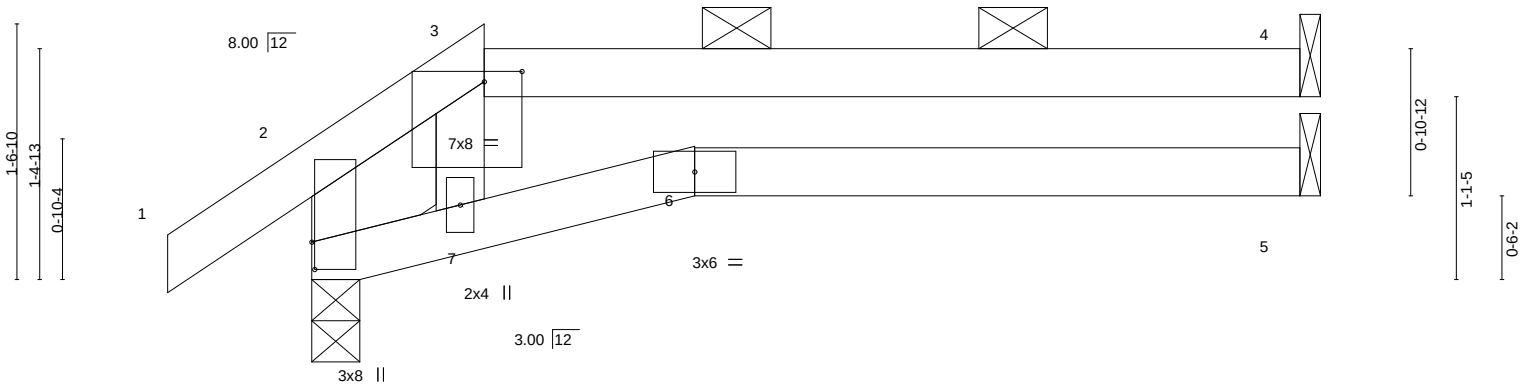
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M17 | Jack-Open | 1 | 1 | I43505958 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:03 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-D1YKXOgsTiUdt0xPzCsg1PefUj_qQoLjzoVc6RyMI6_

| -0-10-8 | 1-0-9 | 2-3-14 | 6-0-0 |
|---|---|---|---|
| 0-10-8 | 1-0-9 | 1-3-5 | 3-8-2 |

Scale = 1:14.0




| 1-0-9 | 2-3-14 | 6-0-0 |
|---|---|---|
| 1-0-9 | 1-3-5 | 3-8-2 |

Plate Offsets (X,Y)-- [2:0-2-0,0-0-3], [3:0-2-12,0-0-12]

| 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 | 0.53 | Vert(LL) | -0.07 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.14 | 5-6 | >503 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.07 | 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 |
| SLIDER | Left 2x6 SPF No.2 1-0-12 |

**BRACING-**

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=27(LC 8)
Max Uplift 4=-30(LC 8), 2=-20(LC 8)
Max Grav 4=181(LC 1), 2=333(LC 1), 5=107(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-276/135

**NOTES-**

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

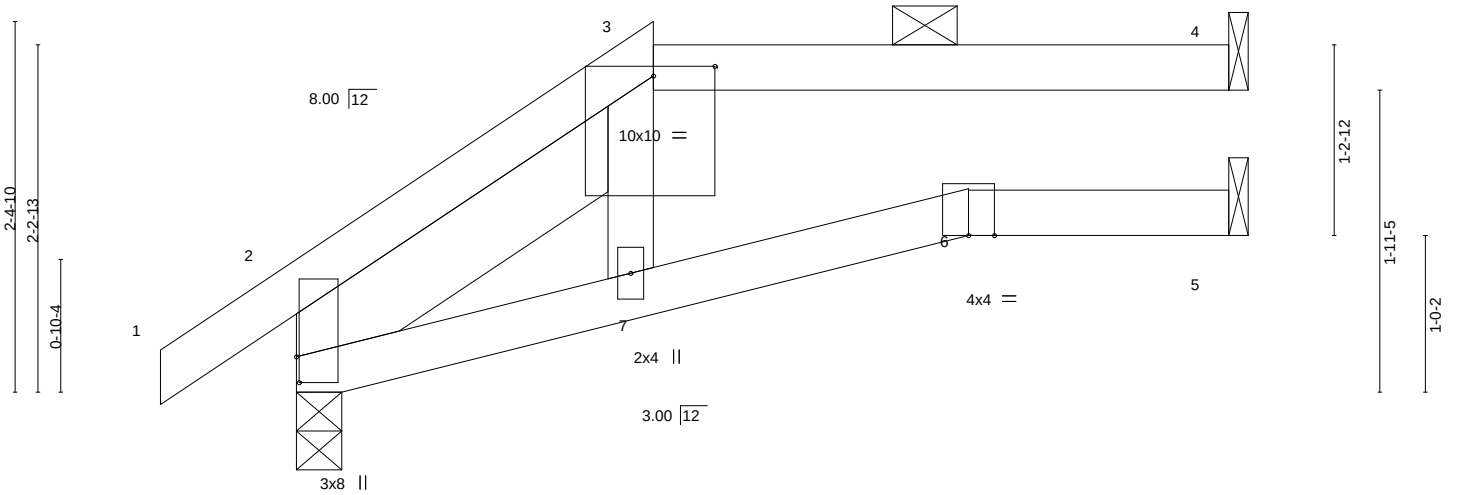
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M18 | Jack-Open | 1 | 1 | I43505959 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:04 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-hD6jkkhUE0cUVAWbXvNvadBqz6JP9FusBSFAdtyMI5z

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

Scale = 1:14.8




2-3-9 4-3-14 6-0-0
2-3-9 2-0-5 1-8-2

Plate Offsets (X,Y)-- [2:0-2-0,0-0-3], [3:0-4-12,0-0-12]

| 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 | 0.49 | Vert(LL) | -0.07 | 6-7 | >951 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.40 | Vert(CT) | -0.14 | 6-7 | >519 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.10 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 22 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-12

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 4=-29(LC 8), 2=-14(LC 8)
Max Grav 4=176(LC 1), 2=333(LC 1), 5=98(LC 3)

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

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

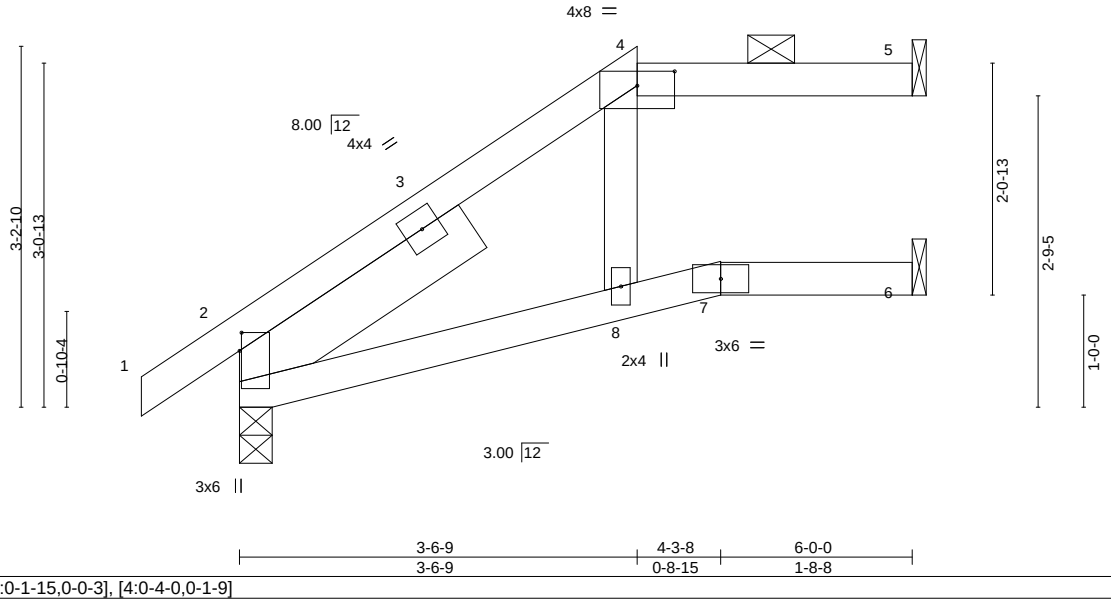
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M19 | Jack-Open | 1 | 1 | I43505960 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:04 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-hD6jkkhUE0cUVAWbXvNvadBrR6J39FzsBSFAdtyMI5z

-0-10-8 3-6-9 6-0-0
0-10-8 3-6-9 2-5-7

Scale = 1:20.5




3-6-9 4-3-8 6-0-0
3-6-9 0-8-15 1-8-8

Plate Offsets (X,Y)-- [2:0-1-15,0-0-3], [4:0-4-0,0-1-9]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.09 | 8-11 | >795 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.16 | 8-11 | >443 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.16 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | 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 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=69(LC 8)
Max Uplift 5=-20(LC 5), 2=-1(LC 8), 6=-2(LC 8)
Max Grav 5=157(LC 1), 2=333(LC 1), 6=106(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-345/65

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


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

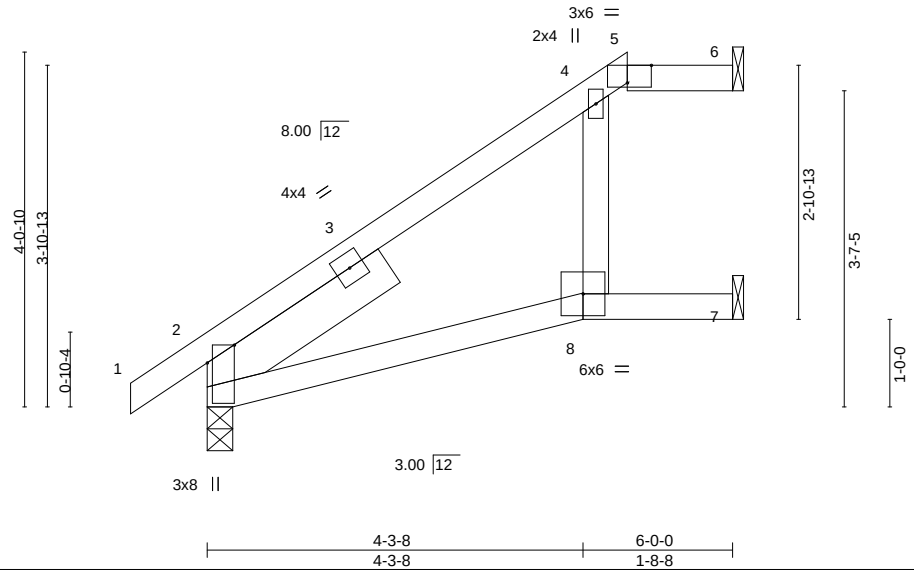
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M20 | Jack-Open | 1 | 1 | I43505961 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:05 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-9Pg5x4i6?JkK7K4n5du87qj0fWfUuiC0Q6_j9JyMl5y

-0-10-8 0-10-8 | 4-3-8 4-3-8 | 4-9-9 0-6-1 | 6-0-0 1-2-7

Scale = 1:26.3




4-3-8 4-3-8 | 6-0-0 1-8-8

Plate Offsets (X,Y)-- [2:0-2-7,Edge], [5:0-3-5,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 | 0.43 | Vert(LL) | -0.09 | 8-11 | >824 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.41 | Vert(CT) | -0.16 | 8-11 | >454 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.13 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | 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 2x6 SPF No.2 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 5-6.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 6=Mechanical, 2=0-3-8, 7=Mechanical
Max Horz 2=91(LC 8)
Max Uplift 6=-15(LC 8), 7=-19(LC 8)
Max Grav 6=144(LC 1), 2=333(LC 1), 7=119(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-293/56

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M21 | Jack-Open | 6 | 1 | I43505962 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:06 2020 Page 1
ID:3GmZlGCHwWZGARvEUeXVyXyPZ34-dcET9PjkmdtBlTfzeKPNf2G8sw?6d9B9fmkGilyMI5x

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

Scale = 1:28.3

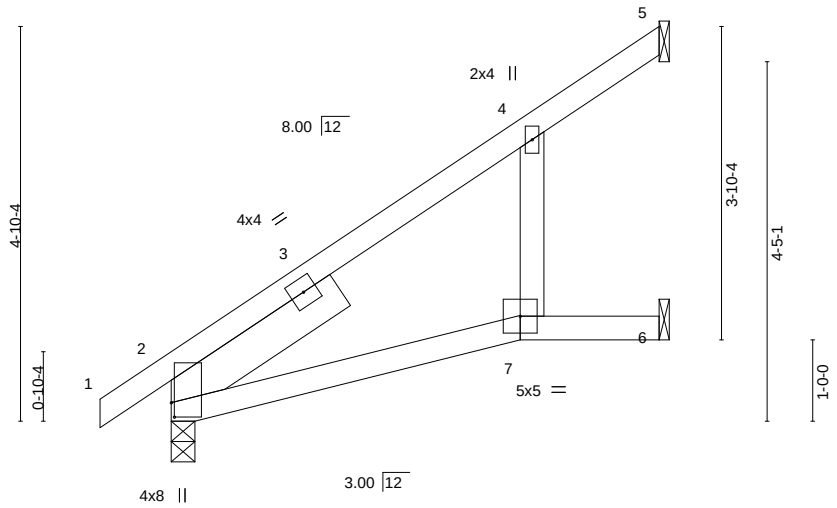



Plate Offsets (X,Y)-- [2:0-2-2,0-0-7]

| 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 | 0.59 | Vert(LL) | -0.11 | 7 | >672 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.18 | 7 | >385 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.06 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | Weight: 24 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 5=-66(LC 8)
Max Grav 5=250(LC 13), 2=333(LC 1), 6=33(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

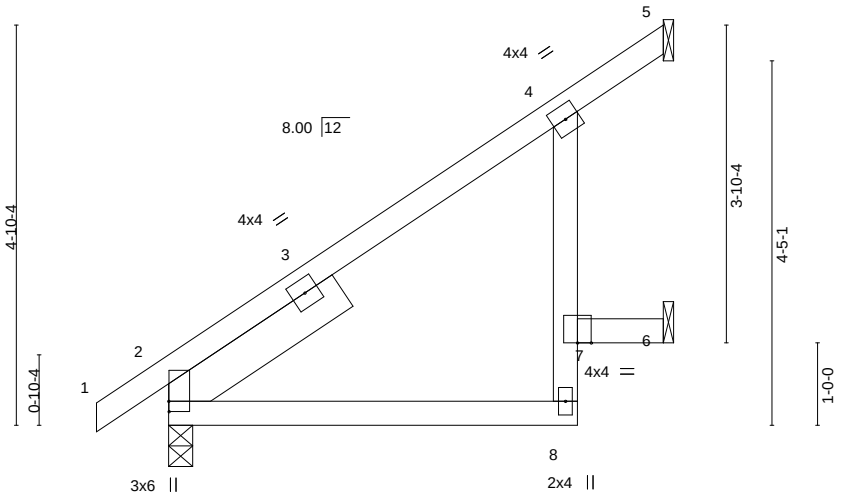
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M22 | Jack-Open | 8 | 1 | I43505963 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:07 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-6oorMljMXx?2MdEAC2wcCFoQ1KMwMctJtQTqECyMI5w

-0-10-8 0-10-8 | 4-11-8 | 6-0-0 1-0-8

Scale = 1:27.9




4-11-8 4-11-8 | 6-0-0 1-0-8

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | -0.01 | 8-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(CT) | -0.03 | 8-11 | >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: 25 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 5=-15(LC 8), 6=-42(LC 8)
Max Grav 5=87(LC 1), 2=333(LC 1), 6=179(LC 13)

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

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M23 | Jack-Open | 1 | 1 | I43505964 |

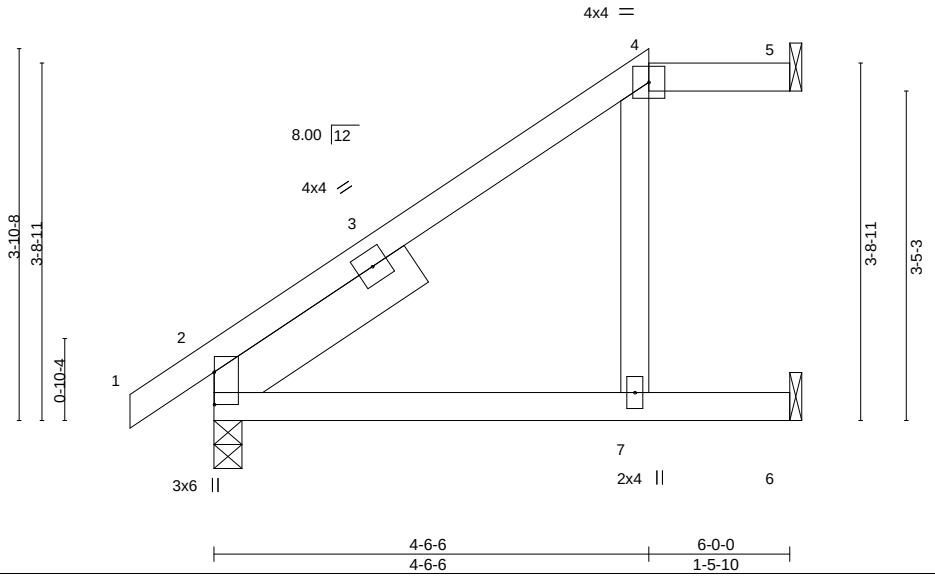
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:07 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-6oorMljMXx?2MdEAC2wcCFoNrKHzMc5JtQTqECyMI5w

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/19/2020

-0-10-8 4-6-6 6-0-0
0-10-8 4-6-6 1-5-10

Scale: 1/2"=1'




4-6-6 6-0-0
4-6-6 1-5-10

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | -0.11 | 7-10 | >642 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.21 | 7-10 | >341 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.17 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-AS | | | | | | | Weight: 24 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=86(LC 8)
Max Uplift 5=-10(LC 4), 6=-26(LC 8)
Max Grav 5=49(LC 1), 2=333(LC 1), 6=213(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-425/88

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M24 | Jack-Open | 1 | 1 | I43505965 |

Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:08 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-a_MDa5k?IE7v_npMmlRrkTLZDkae53US64DNmeyMI5v

-0-10-8 3-0-6 6-0-0
0-10-8 3-0-6 2-11-10

Scale = 1:18.1

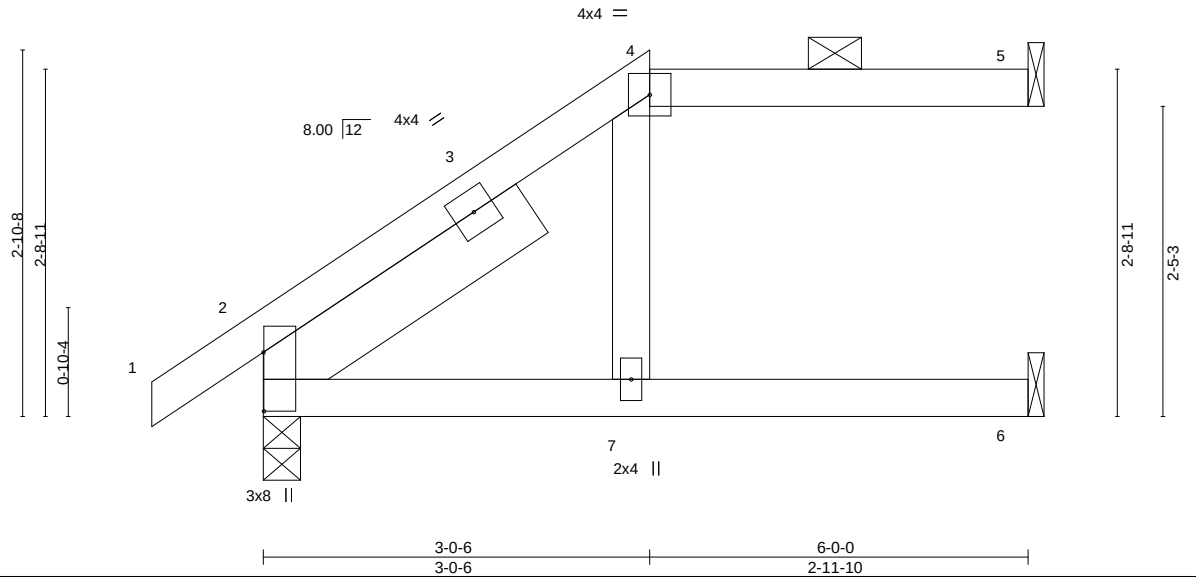



Plate Offsets (X,Y)-- [2:0-5-9,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.14 | 7 | >515 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.26 | 6-7 | >275 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.24 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-AS | | | | | | | 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 2x6 SPF No.2 2-6-0

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

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=61(LC 8)
Max Uplift 5=-20(LC 4), 2=-3(LC 8), 6=-1(LC 8)
Max Grav 5=102(LC 1), 2=333(LC 1), 6=161(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-516/90
WEBS 4-7=-268/48

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

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

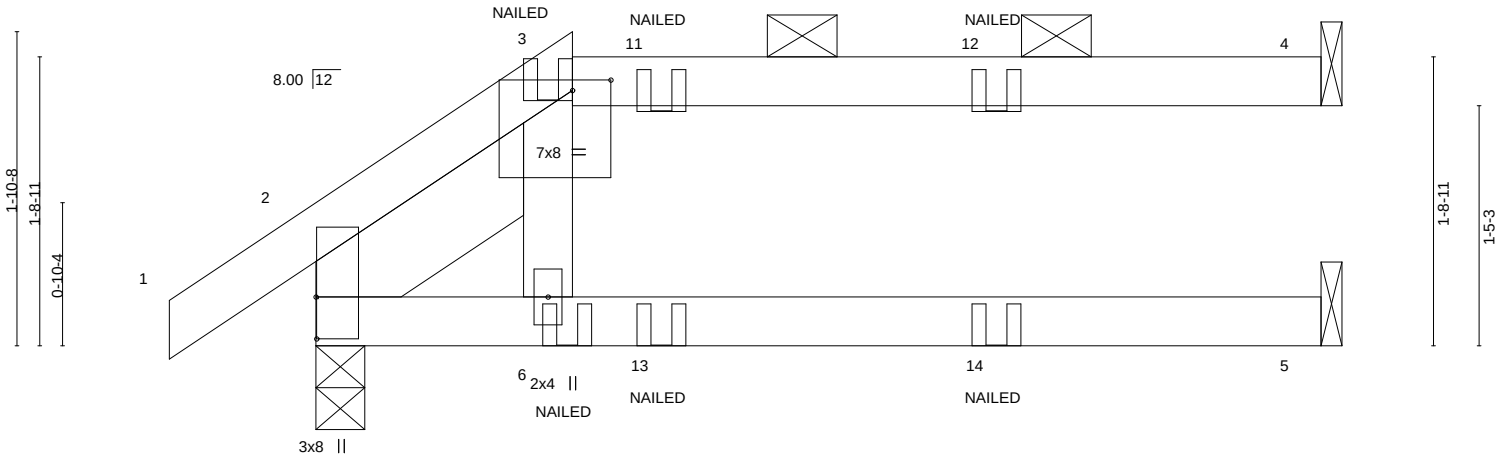
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M25 | Jack-Open Girder | 1 | 1 | I43505966 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:09 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-2BwcnRld3YFmcxOYKTy4Hguh07yyqWibLkyxI4yMI5u

-0-10-8 1-6-6 6-0-0
0-10-8 1-6-6 4-5-10

Scale = 1:13.8




1-6-6 6-0-0
1-6-6 4-5-10

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

| 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 | 0.47 | Vert(LL) | -0.09 | 5-6 | >752 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.21 | 5-6 | >343 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.04 | Horz(CT) | 0.12 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-MP | | | | | | | Weight: 20 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 1-7-5

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
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=35(LC 8)
Max Uplift 4=-38(LC 4), 2=-26(LC 8)
Max Grav 4=163(LC 1), 2=348(LC 1), 5=135(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-333/78

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

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-10(F) 11=-5(F) 12=-5(F) 13=-2(F) 14=-2(F)

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

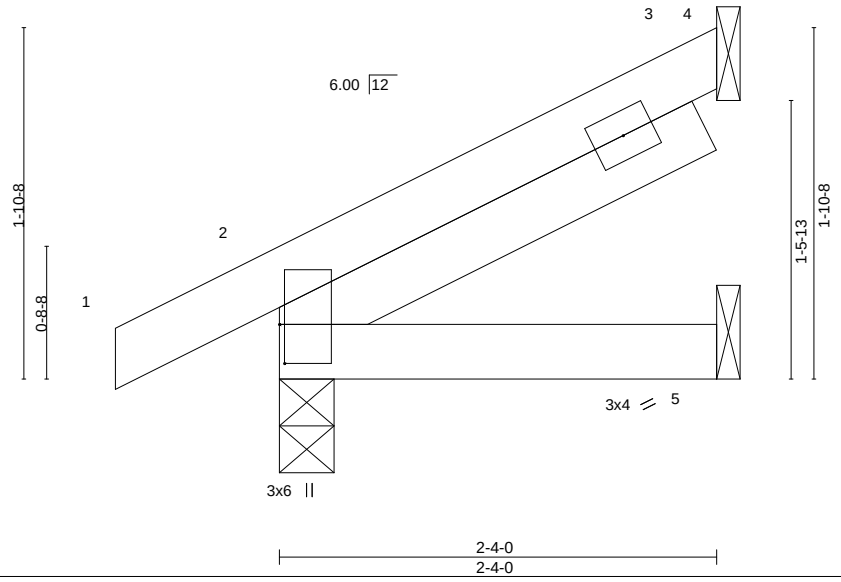
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | M26 | Jack-Open | 2 | 1 | I43505967 |
| | | | | | Job Reference (optional) |



Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:09 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-2BwcnRld3YFmcxOYKTy4HguoV76TqWNbLkyxI4yMI5u

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

Scale = 1:12.3




2-4-0
2-4-0

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | -0.00 | 8 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | -0.00 | 8 | >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: 10 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=0-3-8, 5=Mechanical, 3=Mechanical
Max Horz 2=38(LC 8)
Max Uplift 2=-1(LC 8), 3=-22(LC 8)
Max Grav 2=175(LC 1), 5=35(LC 3), 3=71(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | PB1 | Piggyback | 1 | 1 | I43505968 |

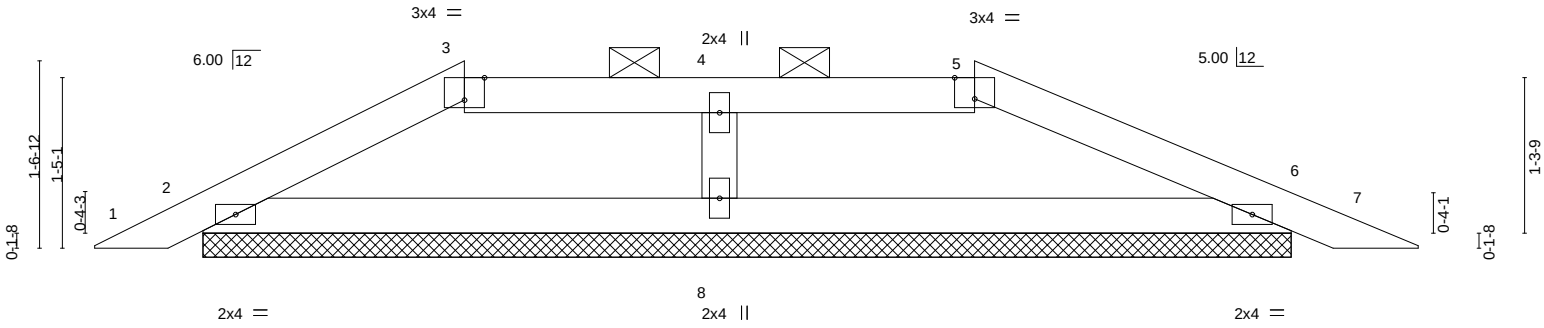
Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:14 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-O8jVq9plt4t3iiGW60YF_kbd28oJVnAKU0gi_IyMI5p

**RELEASE FOR CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

3-1-7 | 7-4-3 | 11-1-6
3-1-7 | 4-3-0 | 3-8-15

Scale = 1:19.2




11-1-6
11-1-6

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.01 | 7 | n/r | 120 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | 0.01 | 7 | n/r | 120 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | | Weight: 25 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=9-0-12, 6=9-0-12, 8=9-0-12
Max Horz 2=-14(LC 6)
Max Uplift 2=-19(LC 8), 6=-21(LC 5)
Max Grav 2=272(LC 1), 6=298(LC 1), 8=337(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-318/39, 3-4=-267/39, 4-5=-268/39, 5-6=-325/38
BOT CHORD 2-8=-11/264, 6-8=-11/264

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | PB2 | GABLE | 8 | 1 | I43505969 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:15 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-tLHt2UqOeO?wKsrigj3UXx8lmY8uEEGUjgPFWkyMl5o

4-10-3 | 10-10-15
4-10-3 | 6-0-12

Scale = 1:18.4

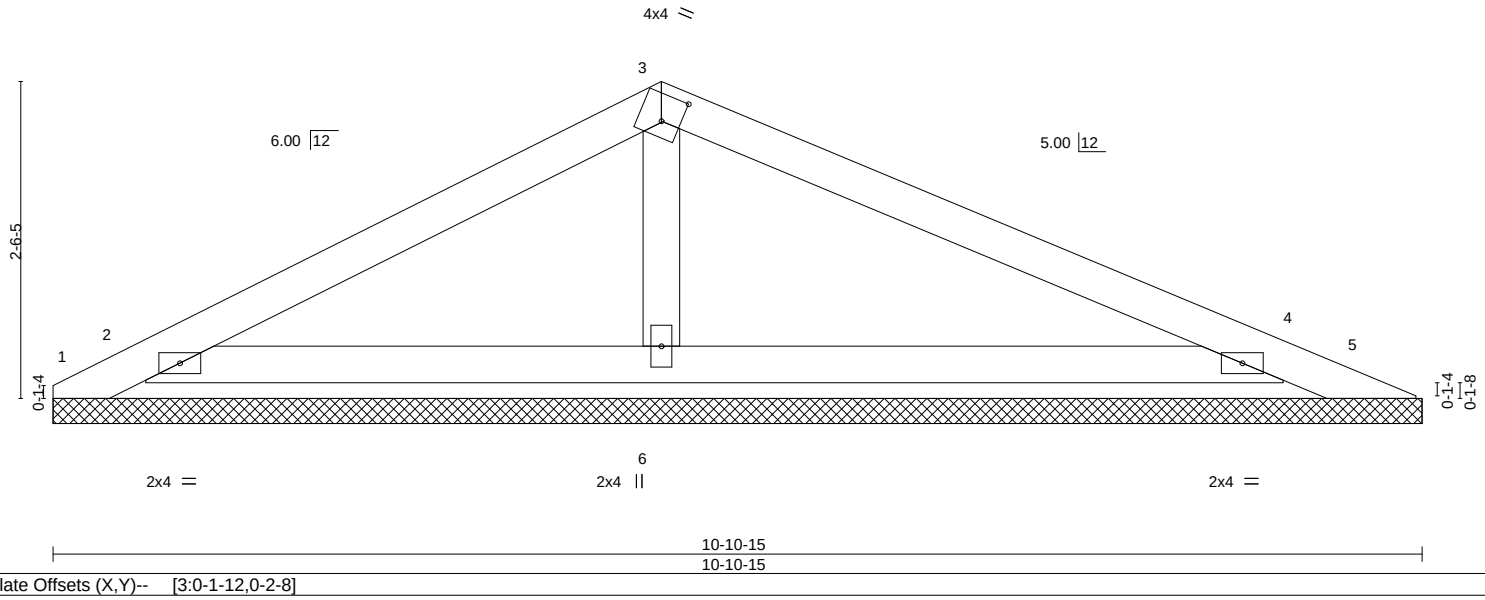



Plate Offsets (X,Y)-- [3:0-1-12,0-2-8]

| 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 | 0.32 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 26 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 10-10-15.
(lb) - Max Horz 1=-26(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=-204(LC 19), 5=-214(LC 20)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=450(LC 19), 4=523(LC 20), 6=381(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-269/24

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=204, 5=214.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

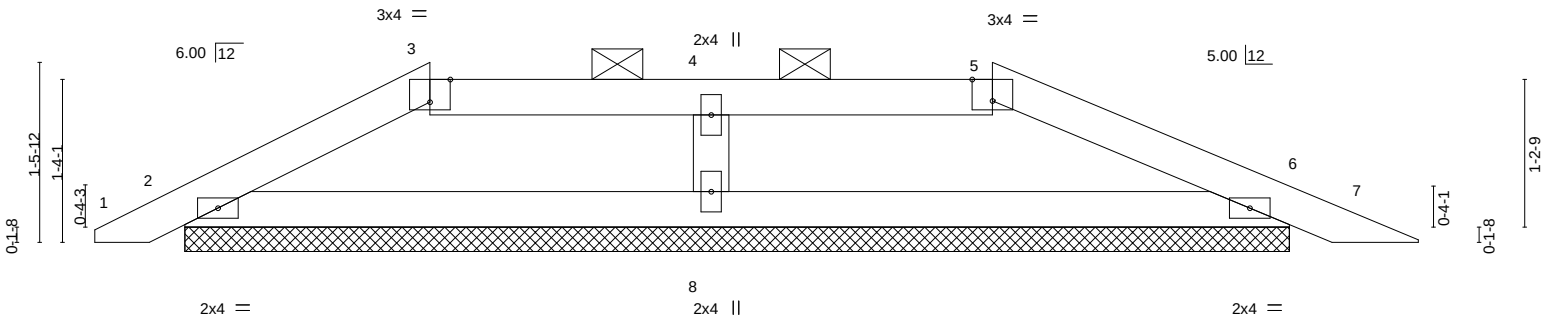
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | PB3 | Piggyback | 1 | 1 | I43505970 |
| | | | | | Job Reference (optional) |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/16/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:15 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-tLHt2UqOeO?wKsrigj3UXx8onY8YEEPUjgPFWkyMl5o

2-9-0 | 7-11-6 | 10-10-15
2-9-0 | 4-7-6 | 3-6-9

Scale = 1:18.9




10-10-15
10-10-15

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.01 | 7 | n/r | 120 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | 0.01 | 7 | n/r | 120 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | | Weight: 24 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=9-0-12, 6=9-0-12, 8=9-0-12
Max Horz 2=-13(LC 6)
Max Uplift 2=-17(LC 8), 6=-21(LC 5)
Max Grav 2=261(LC 1), 6=293(LC 1), 8=347(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-319/40, 3-4=-270/39, 4-5=-271/39, 5-6=-326/39
BOT CHORD 2-8=-13/268, 6-8=-13/268

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 5,2020




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

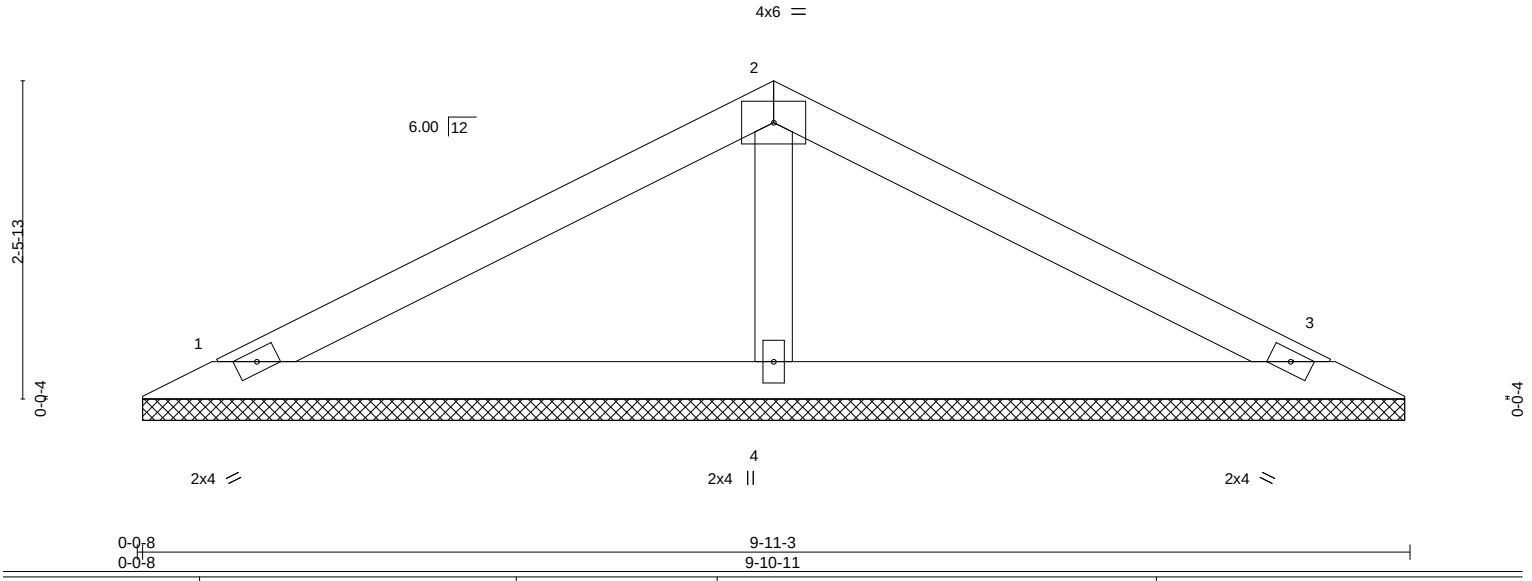
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | V1 | Valley | 1 | 1 | I43505971 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:16 2020 Page 1
ID:3GmZlGCHwWZGARvEUeXVyXyPZ34-LXrFFqq0Pi7nx0QuERaj39gxXyT3zhRdyK9o2AyMI5n

4-11-10 9-11-3
4-11-10 4-11-10

Scale = 1:18.0




0-0-8 9-11-3
0-0-8 9-10-11

| 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 | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | | Weight: 24 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=9-10-3, 3=9-10-3, 4=9-10-3
Max Horz 1=-22(LC 6)
Max Uplift 1=-13(LC 8), 3=-16(LC 9)
Max Grav 1=180(LC 19), 3=180(LC 20), 4=425(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-294/32

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

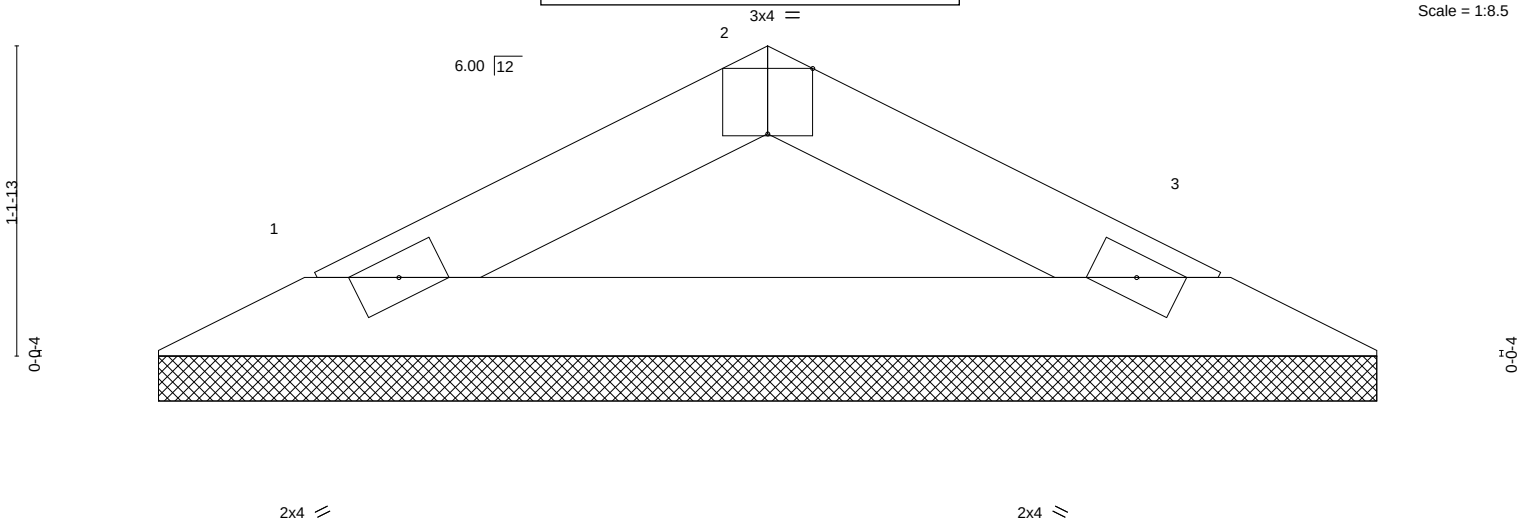
| Job | Truss | Truss Type | Qty | Ply | 8 WOODSIDE RIDGE/ JULIETTE |
|---|---|---|---|---|---|
| 2523903 | V2 | Valley | 1 | 1 | I43505972 |

Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Nov 5 08:09:17 2020 Page 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-pjOdTAreA?FeZA?5o86ycMDAbMqyi8LnB_uMbdyMI5m

2-3-10 (2-3-10) | 4-7-3 (2-3-10)

Scale = 1:8.5




0-0-8 (0-0-8) | 4-7-3 (4-6-11)

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

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

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=4-6-3, 3=4-6-3
Max Horz 1=9(LC 5)
Max Uplift 1=-4(LC 8), 3=-4(LC 9)
Max Grav 1=150(LC 1), 3=150(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.


November 5,2020



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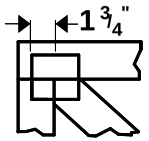
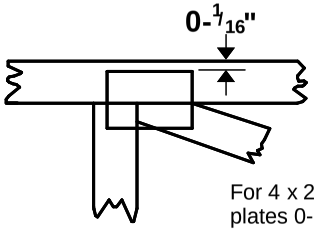
# Symbols

## 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- 1/16" from outside edge of truss.

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

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

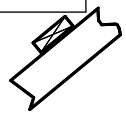


## PLATE SIZE

4 X 4

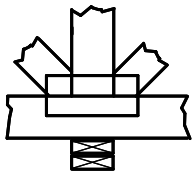
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

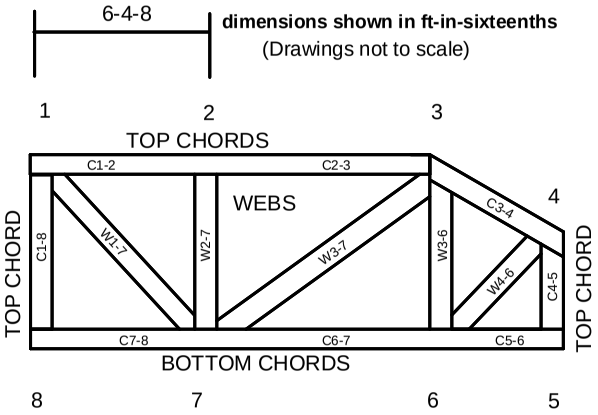


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System




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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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



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

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.