

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

03/03/2021

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

Re: H3-91

SUMMIT HOMES

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I44738396 thru I44738425

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

Missouri COA: Engineering 001193



February 10,2021

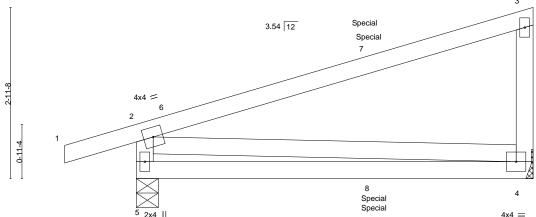
Sevier, Scott

,Engineer

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

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 CJ1 Diagonal Hip Girder 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. Washing 49 Mits Sequential Seq Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-7W1JD4Mor9Q1uv1ksE5vJeV8Fd3zM6z6GQTwEDzmqmK 6-10-5 03/03/2021 1-2-14 6-10-5 2x4 Scale = 1:19.9 3



6-10-5 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.85 0.01 4-5 >999 360 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.43 Vert(CT) -0.12 4-5 >650 240 TCDI 10.0 Rep Stress Incr NO WB 0.01 Horz(CT) -0.00 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 36 lb FT = 3% **BCDL** 10.0

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2

REACTIONS. 5=0-4-9, 4=Mechanical (size)

Max Horz 5=91(LC 8) Max Uplift 5=-57(LC 7), 4=-22(LC 8) Max Grav 5=374(LC 16), 4=301(LC 16)

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

TOP CHORD 2-5=-306/96

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 36 lb up at 4-1-7, and 63 lb down and 36 lb up at 4-1-7 on top chord, and 13 lb down and 5 lb up at 4-1-7, and 13 lb down and 5 lb up at 4-1-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-31(F=-16, B=-16) 8=-6(F=-3, B=-3)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

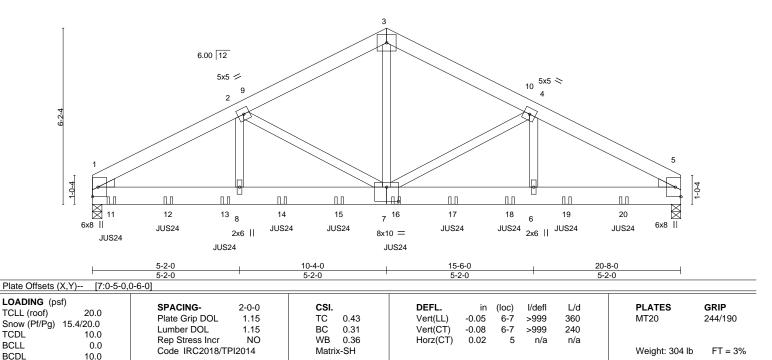
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Ply SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 G1 Common Girder **DEVELOPMENT SERVICES** | A | Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Nov 30 2020 MiTek Industries, Incl. | Eng. | Seb. | JAMES | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1.450 | 1. Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-leBTXrVhFYoTjbNr02oVGyS7?2rLR0Kjoee?74zmqm9 15-6-0 20-8-0 03/03/2021 5-2-0 5-2-0 Scale = 1:40.5

7x8 =



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCDL

BCLL

BCDL

2x6 SP No.1 TOP CHORD BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 1=0-4-0, 5=0-4-0

Max Horz 1=64(LC 10)

Max Uplift 1=-400(LC 11), 5=-334(LC 12) Max Grav 1=3334(LC 2), 5=3331(LC 2)

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

1-2=-4959/573, 2-3=-3697/438, 3-4=-3697/438, 4-5=-5215/566 **BOT CHORD** 1-8=-494/4190, 7-8=-494/4190, 6-7=-428/4412, 5-6=-428/4412

WEBS 3-7=-319/2912, 4-7=-1383/215, 4-6=-121/1434, 2-7=-1125/223, 2-8=-178/1176

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) Plates checked for a plus or minus 2 degree rotation about its center.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=400 5=334
- 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) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 18-8-0 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER ROLLES SIONAL PE-2001018807

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

February 10,2021

Continued on page 2







Job Truss Truss Type Qty Ply SUMMIT HOMES H3-91 G1 Common Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. Se6 JMM/M700/MSS64/R12

ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-leBTXrVhFYoTjbNr02oVGyS7?2rLR0Kjoee?74zmqm9

03/03/2021

LOAD CASE(S) Standard

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

Jefferson City, MO - 65101,

Uniform Loads (plf)

Mid America Truss,

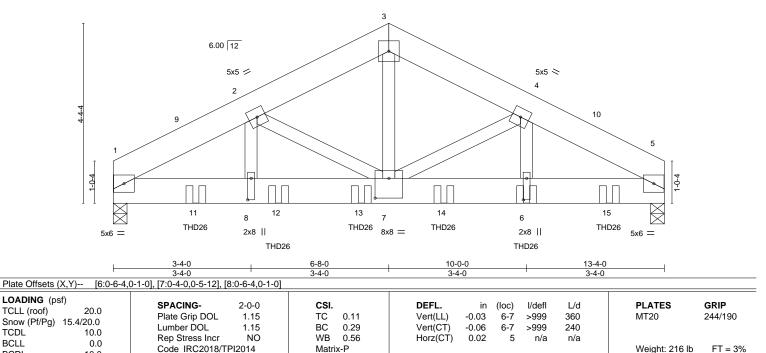
Vert: 1-3=-51, 3-5=-51, 1-5=-20

Concentrated Loads (lb)

Vert: 11=-299(B) 12=-294(B) 13=-290(B) 14=-290(B) 15=-521(B) 16=-417(B) 17=-417(B) 18=-417(B) 19=-417(B) 20=-547(B)



RELEASE FOR Job Truss Truss Type Qty Ply SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 G2 Roof Special Girder **DEVELOPMENT SERVICES** 2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Table Se SUMMATO 1 MISS OUR INCL. Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-mqlskBWK0rwKKly2ZlJkoA?NjSBvAQMt1INZfWzmqm8 10-0-0 03/03/2021 3-4-0 3-4-0 6x6 = Scale = 1:27.9



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL (roof)

TCDL

BCLL

BCDL

WEBS

2x8 SP 2400F 2.0E TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.2

REACTIONS. (size) 1=0-4-0, 5=0-4-0 Max Horz 1=-42(LC 7)

10.0

Max Uplift 1=-42(LC 11), 5=-46(LC 12) Max Grav 1=4984(LC 2), 5=5466(LC 2)

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

1-2=-7582/66, 2-3=-5745/75, 3-4=-5743/75, 4-5=-7685/69 TOP CHORD BOT CHORD 1-8=-60/6242, 7-8=-60/6242, 6-7=-24/6327, 5-6=-24/6327 WFBS 3-7=-29/4595, 4-7=-1378/65, 4-6=0/2428, 2-7=-1279/62, 2-8=0/2313

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. Except member 4-6 2x4 - 1 row at 0-5-0 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design
- 7) Plates checked for a plus or minus 2 degree rotation about its center.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 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) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 12-0-0 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: 1-3=-51, 3-5=-51, 1-5=-20



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

February 10,2021

Continued on page 2



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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Qty Job Truss Truss Type Ply SUMMIT HOMES H3-91 G2 Roof Special Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. Se6 JMM/M7011/1/155 PAJGRE

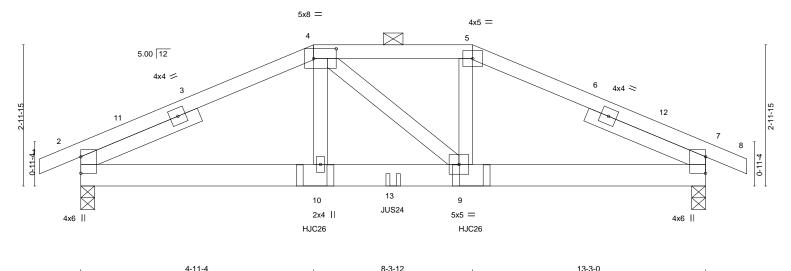
ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-mqlskBWk0rwKKly2ZlJkoA?NjSBvAQMt1INZfWzmqm8 03/03/2021

Jefferson City, MO - 65101,

LOAD CASE(S) Standard Concentrated Loads (lb)

Mid America Truss,

Vert: 6=-1386(B) 11=-1386(B) 12=-1386(B) 13=-1386(B) 14=-1386(B) 15=-1386(B)



4-11-4 3-4-8 Plate Offsets (X,Y)--[4:0-5-12,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.03 9-10 >999 360 MT20 244/190 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.19 Vert(CT) -0.06 9-10 >999 240 TCDL 10.0 Rep Stress Incr NO WB 0.08 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 150 lb FT = 3%BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.1

WEBS 2x4 SP No.2 Left 2x4 SP No.2 -t 2-8-14, Right 2x4 SP No.2 -t 2-8-14 **SLIDER**

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=25(LC 13)

Max Uplift 2=-97(LC 7), 7=-97(LC 8) Max Grav 2=1244(LC 34), 7=1244(LC 34)

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

2-4=-2013/185, 4-5=-1738/181, 5-7=-2013/185 2-10=-132/1701, 9-10=-133/1738, 7-9=-129/1702 TOP CHORD BOT CHORD

WEBS 4-10=-36/658, 5-9=-43/684

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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.

Unbalanced roof live loads have been considered for this design.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Plates checked for a plus or minus 2 degree rotation about its center.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 3-3-12 oc max. starting at 4-11-10 from the left end to 8-3-6 to connect truss(es) to back face of bottom chord.
- 14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-7-8 from the left end to connect truss(es) Continue ackriance ef 2 bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc bracing

February 10,2021

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



Job Truss Truss Type Qty Ply SUMMIT HOMES H3-91 Н1 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

2 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. Se6 JMM/M703/MSS64/gR2 ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-jDtc9tXaYTB2a35QhALCub4aeGuxeRMAVcsfkPzmqm6

03/03/2021

Mid America Truss, Jefferson City, MO - 65101,

NOTES-

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

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

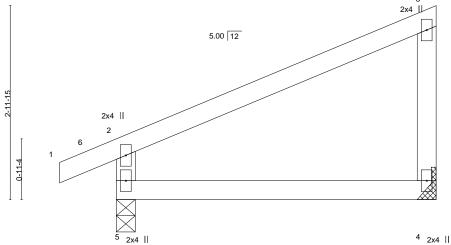
Uniform Loads (plf) Vert: 1-4=-51, 4-5=-61, 5-8=-51, 2-7=-20

Concentrated Loads (lb) Vert: 10=-472(B) 9=-472(B) 13=-200(B)



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 J1 MONO TRUSS 3 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. 1884/7031655 Out 1884/703165 Out Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-jDtc9tXaYTB2a35QhALCub4fdGvkeSfAVcsfkPzmqm6 -0-10-8 03/03/2021 0-10-8 4-11-4 Scale = 1:17.8 2x4 []



4-11-4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	
TCLL (roof) 20.0				in	(IOC)	i/deli	L/u	
,	Plate Grip DOL 1.15	TC 0.34	Vert(LL)	-0.01	4-5	>999	360	
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	-0.02	4-5	>999	240	
TCDL 10.0			- (- /		4-5	>555	240	
	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCLL 0.0	Code IRC2018/TPI2014	Matrix-R	` ′					
BCDI 10.0	Code INC2016/1712014	IVIALITX-IX						

PLATES

MT20

Weight: 21 lb FT = 3%

GRIP 244/190

LUMBER-

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

2x4 SP No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-11-4 oc purlins,

except end verticals.

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

REACTIONS.

5=0-3-8, 4=Mechanical (size) Max Horz 5=92(LC 8) Max Uplift 5=-16(LC 7), 4=-18(LC 8) Max Grav 5=296(LC 16), 4=220(LC 16)

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

TOP CHORD 2-5=-262/47

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 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.

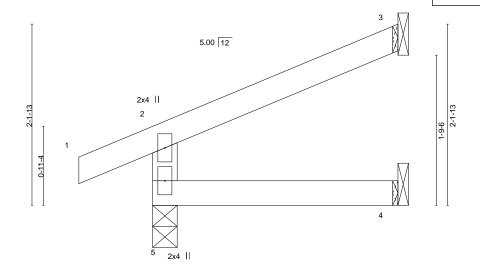


February 10,2021





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 J2 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-61444407044415564481 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-BPR_NDYCJmJvBDgdFusRQoduxgHONvvJjGcDGrzmqm5 -0-10-8 2-10-15 03/03/2021 2-10-15 0-10-8



2-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 Vert(LL) 0.00 360 244/190 TC 0.11 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 4-5 >999 240 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 11 lb FT = 3% **BCDL** 10.0

2-10-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=43(LC 8)

Max Uplift 5=-10(LC 7), 3=-28(LC 11)

Max Grav 5=216(LC 16), 3=84(LC 16), 4=29(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 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.



Scale = 1:13.7

February 10,2021

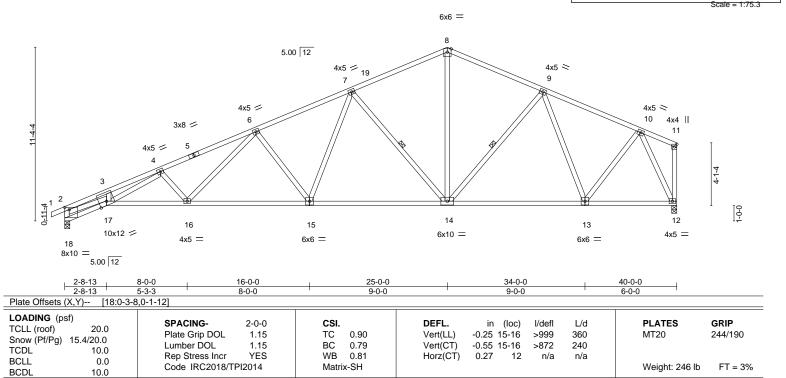


Structural wood sheathing directly applied or 2-10-15 oc purlins,

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

except end verticals.

Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 S1 **ROOF SPECIAL** 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-61444407(05/41/15) Public Section 1. Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-fb?MaZZq44RmpNFpobOgz0AsQ3Q16ARSywLmolzmqm4 -0-10-8 2-8-13 0-10-8 2-8-13 25-0-0 31-3-0 37-6-0 4<mark>03/03/2021</mark> 3-6-3 6-3-0 6-3-0 6-3-0 6-3-0 6-3-0



LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD**

15-17: 2x4 SP No.1

2x4 SP No.2 *Except* WEBS 2-17: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-12 oc purlins,

except end verticals.

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

1 Row at midpt 7-14, 9-14

REACTIONS. (size) 18=0-4-0, 12=0-4-0

Max Horz 18=158(LC 8)

Max Uplift 18=-52(LC 11), 12=-1(LC 12) Max Grav 18=1650(LC 2), 12=1588(LC 2)

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

TOP CHORD 2-18=-1670/121, 2-3=-4992/277, 3-4=-4883/315, 4-6=-3722/165, 6-7=-2673/128,

7-8=-1696/104, 8-9=-1697/116, 9-10=-1429/50

BOT CHORD 17-18=-163/288, 16-17=-243/3721, 15-16=-130/2813, 14-15=-41/2129, 13-14=0/1460,

12-13=-27/727

2-17=-213/4276, 4-17=-141/942, 4-16=-560/141, 6-16=-36/816, 6-15=-702/143,

7-15=-13/789, 7-14=-992/148, 8-14=-12/905, 9-13=-586/59, 10-13=0/884,

10-12=-1693/38

NOTES-

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Bearing at joint(s) 18 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) 18, 12.
- 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.



RELEASE FOR

February 10,2021





Job Truss Truss Type Qty SUMMIT HOMES H3-91 S₁A Roof Special 2 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Incl. Fie SeS UMWOTO TWOS PAGE! Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-b_67?Ea4bhhU2gPBw0Q82RFGTtAua4vlPEqttAzmqm2

21-11-8

3-2-8

25-0-0

3-0-8

28-2-0

3-2-0

31-3-0

3-1-0

37-6-0

6-3-0

18-9-0

6-3-0

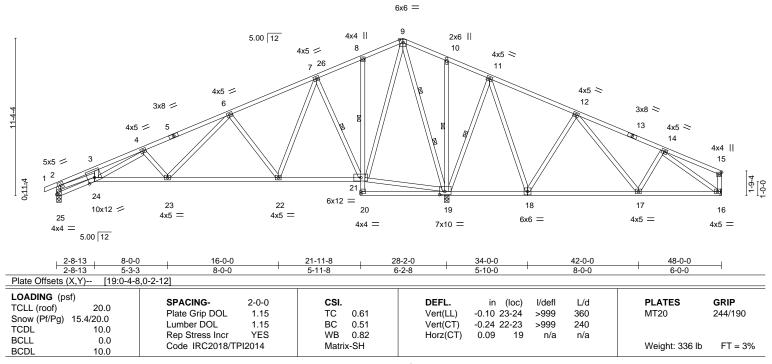
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

43-9-0

6-3-0

03/03/2029

Scale = 1:83.2



LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

-0-10-8 2-8-13 0-10-8 2-8-13

3-6-3

6-3-0

WEBS 2x4 SP No.2 BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-9-4 oc purlins,

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

BOT CHORD 1 Row at midpt 8-21 **WEBS**

7-21, 10-19, 11-19 1 Row at midpt 2 Rows at 1/3 pts 9-19

REACTIONS. (size) 25=0-4-0, 19=0-4-0, 16=Mechanical

Max Horz 25=104(LC 11)

Max Uplift 25=-29(LC 11), 19=-40(LC 11), 16=-134(LC 29) Max Grav 25=802(LC 29), 19=2903(LC 2), 16=440(LC 30)

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

TOP CHORD 2-25=-805/88, 2-3=-2147/167, 3-4=-2099/208, 4-6=-1290/86, 6-7=-359/62, 7-8=0/480,

8-9=0/490, 9-10=0/1296, 10-11=0/1291, 11-12=-49/860, 12-14=-403/404

BOT CHORD 23-24=-141/1411, 22-23=-43/654, 18-19=-911/141, 17-18=-602/135, 16-17=-252/397 WEBS

2-24=-117/1797, 4-24=-116/622, 4-23=-452/132, 6-23=-22/694, 6-22=-671/144, 7-22=-25/744, 7-21=-834/120, 19-21=-687/114, 9-21=-87/969, 9-19=-1794/71,

10-19=-264/52, 11-19=-807/114, 11-18=-18/711, 12-18=-628/119, 12-17=0/505,

14-17=-282/83, 14-16=-469/336

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 19 except (jt=lb) 16=134
- 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.



February 10,2021





Job Truss Truss Type Qty SUMMIT HOMES H3-91 S₁B Roof Special 2 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-3AgVCabjM?pLgq_OUjxNbeoRHHXCJWFveuaQPczmqm1

21-11-8

3-2-8

25-0-0

3-0-8

28-2-0

3-2-0

18-9-0

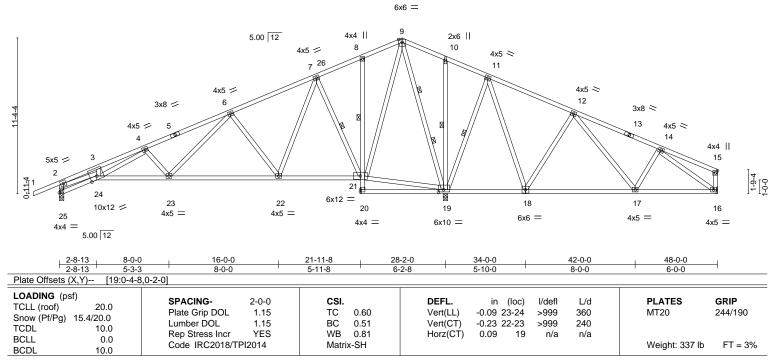
6-3-0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-61444407(98/4/155-04/18)

03/03/2021 6-3-0

Scale = 1:84.0



31-3-0

3-1-0

37-6-0

6-3-0

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2

1-10-8 2-8-13 1-10-8 2-8-13

3-6-3

6-3-0

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-10-7 oc purlins,

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

BOT CHORD 1 Row at midpt 8-21 **WEBS** 7-21, 10-19, 11-19

1 Row at midpt 2 Rows at 1/3 pts 9-19

REACTIONS. (size) 25=0-4-0, 19=0-4-0, 16=Mechanical

Max Horz 25=113(LC 11)

Max Uplift 25=-41(LC 11), 19=-37(LC 11), 16=-125(LC 29) Max Grav 25=871(LC 29), 19=2886(LC 2), 16=443(LC 30)

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

TOP CHORD 2-25=-842/95, 2-3=-2059/153, 3-4=-2003/192, 4-6=-1282/85, 6-7=-368/64, 7-8=0/467,

8-9=0/477, 9-10=0/1279, 10-11=0/1273, 11-12=-46/843, 12-14=-407/391

23-24=-138/1395, 22-23=-44/658, 18-19=-895/138, 17-18=-588/132, 16-17=-242/400 2-24=-114/1796, 4-24=-102/537, 4-23=-438/130, 6-23=-19/678, 6-22=-664/143,

7-22=-24/738, 7-21=-830/120, 19-21=-675/112, 9-21=-87/967, 9-19=-1780/68, 10-19=-267/52, 11-19=-806/114, 11-18=-18/709, 12-18=-626/119, 12-17=0/501,

14-17=-279/83, 14-16=-474/323

NOTES-

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 19 except (jt=lb) 16=125
- 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.

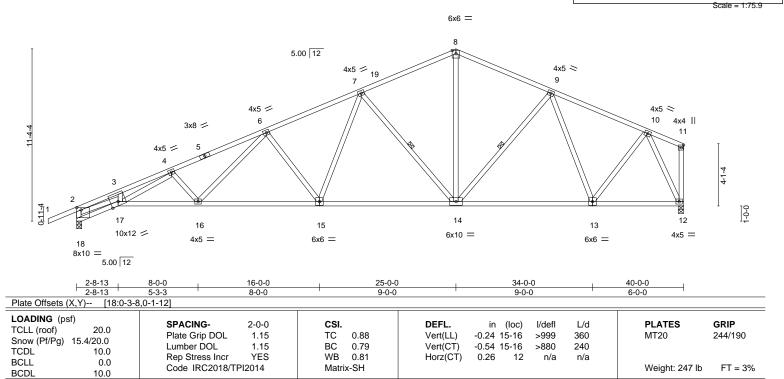


February 10,2021





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEWS H3-91 S1C Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-614440710445564481 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-?ZoFdGdzuc33v88mb8zrg3tjM48DnQhC6B3XUVzmqm? 25-0-0 1-10-8 2-8-13 1-10-8 2-8-13 31-3-0 37-6-0 + 03/03/2021 3-6-3 6-3-0 6-3-0 6-3-0 6-3-0



LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD**

15-17: 2x4 SP No.1 **WEBS** 2x4 SP No.2 *Except*

2-17: 2x4 SP No.1

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-8-12 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 17-18.

WEBS 1 Row at midpt 7-14, 9-14

REACTIONS. (size) 18=0-4-0, 12=0-4-0

Max Horz 18=165(LC 8)

Max Uplift 18=-63(LC 11), 12=-1(LC 12) Max Grav 18=1713(LC 2), 12=1585(LC 2)

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

TOP CHORD 2-18=-1700/128, 2-3=-4882/259, 3-4=-4766/295, 4-6=-3695/161, 6-7=-2664/126,

7-8=-1692/103, 8-9=-1693/115, 9-10=-1427/50

16-17=-237/3686, 15-16=-127/2800, 14-15=-40/2122, 13-14=0/1457, 12-13=-27/726 **BOT CHORD** WEBS

2-17=-207/4255, 4-17=-127/855, 4-16=-544/138, 6-16=-34/799, 6-15=-695/142,

7-15=-12/783, 7-14=-987/147, 8-14=-11/902, 9-13=-584/59, 10-13=0/883,

10-12=-1690/38

NOTES-

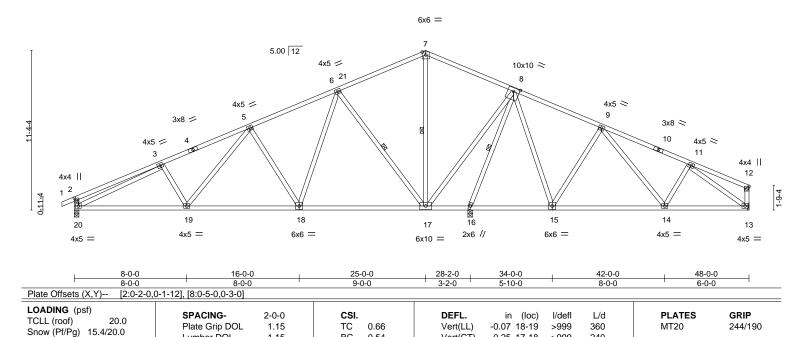
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Bearing at joint(s) 18 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) 18, 12.
- 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.



February 10,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T1 Common **DEVELOPMENT SERVICES** Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Incl. Fie SeS UMWOTT 1 1055 PAGE Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-UIMdrcddfwBvXliz9sU4CHQxaUXQVq0LKro50xzmqm_ 03/03/20¹⁸1⁰⁻⁰4-3-0 -0₋10₋8 0-10-8 31-3-0 37-6-0 43-9-0 6-3-0 6-3-0 6-3-0 6-3-0 6-3-0 6-3-0 6-3-0



LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

10.0

10.0

0.0

WEBS 2x4 SP No.2

REACTIONS. (size) 13=Mechanical, 20=0-4-0, 16=0-4-0

Max Horz 20=104(LC 11)

Max Uplift 13=-39(LC 12), 20=-45(LC 11), 16=-2(LC 11) Max Grav 13=650(LC 30), 20=1036(LC 29), 16=2285(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-431/77, 3-5=-1488/103, 5-6=-876/102, 8-9=-269/174, 9-11=-740/99, 2-20=-383/81 **BOT CHORD** $19 - 20 = -134/1418,\ 18 - 19 = -64/1037,\ 17 - 18 = 0/537,\ 16 - 17 = -1002/106,\ 14 - 15 = -13/439,$

13-14=-52/663

WEBS 5-19=-13/444, 5-18=-574/129, 6-18=-7/709, 6-17=-937/142, 7-17=-387/0, 8-17=-28/1569, 8-15=-11/609, 9-15=-516/119, 9-14=0/333, 11-13=-805/63,

3-20=-1229/12, 8-16=-2355/31

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

BC

WB

Matrix-SH

0.54

1.00

Vert(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

Horz(CT)

-0.25 17-18

except end verticals.

1 Row at midpt

13

0.04

>999

n/a

Rigid ceiling directly applied or 5-7-11 oc bracing.

240

n/a

Structural wood sheathing directly applied or 4-5-14 oc purlins,

6-17, 7-17, 8-16

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 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) 13, 20, 16.
- 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.



Scale = 1:81.9

FT = 3%

Weight: 305 lb

February 10,2021



Job Truss Truss Type Qty SUMMIT HOMES H3-91 T1A Roof Special Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-614440712445564481 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-yyw02yeDQEJm9RH9jZ0JIUy6futjElyUZVYeXOzmqlz -0₇10₇8 0-10-8 21-11-8 25-0-0 31-3-0 37-6-0

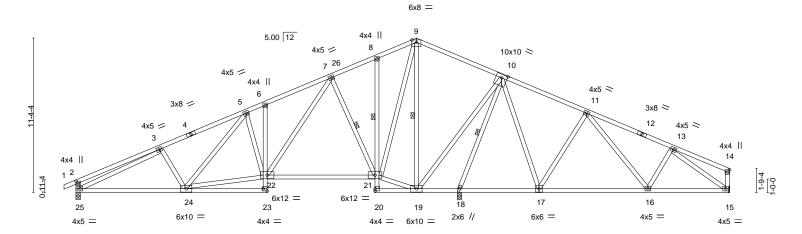
3-2-8

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

48-0-0

6-3-0

Scale = 1:84.6



3-0-8

6-3-0

6-3-0

8-0-0	6-0-8	7-11-0	3-2-0	5-10-0	8-0-0	6-0-0			
Plate Offsets (X,Y) [2:0-2-0,0-1-12], [10:0-5-0,0-3-0], [23:Edge,0-2-0]									
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.53 WB 0.96 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.08 21-22 -0.30 21-22 0.05 15	l/defl L/d >999 360 >999 240 n/a n/a	PLATES MT20 Weight: 350 lb	GRIP 244/190 FT = 3%		

25-0-0

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.2 BRACING-

28-2-0

TOP CHORD

Structural wood sheathing directly applied or 4-7-0 oc purlins,

8-21

7-21, 9-19, 10-18

42-0-0

except end verticals. Rigid ceiling directly applied or 5-4-12 oc bracing. Except:

BOT CHORD 1 Row at midpt **WEBS**

1 Row at midpt

34-0-0

REACTIONS. (size) 25=0-4-0, 15=Mechanical, 18=0-4-0

Max Horz 25=104(LC 11)

Max Uplift 25=-45(LC 11), 15=-46(LC 12)

Max Grav 25=1010(LC 29), 15=629(LC 30), 18=2350(LC 2)

14-0-8

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

2-3=-427/72, 3-5=-1421/103, 5-6=-1147/114, 6-7=-1168/153, 7-8=-286/96, 8-9=-273/133, 10-11=-225/252, 11-13=-707/111, 2-25=-379/79

24-25=-138/1367, 21-22=0/514, 18-19=-1085/112, 17-18=-320/93, 16-17=-81/402,

15-16=-62/637 WEBS

6-3-0

6-3-0

1-6-8

4-8-8

21-11-8

22-24=-35/1120, 5-22=-396/98, 7-22=-83/954, 7-21=-798/137, 9-21=-80/1030, 9-19=-1218/33, 10-19=-48/1587, 10-17=-12/611, 11-17=-524/117, 11-16=0/354,

3-25=-1175/22, 13-15=-773/75, 10-18=-2380/54

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 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) 25, 15.
- 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.



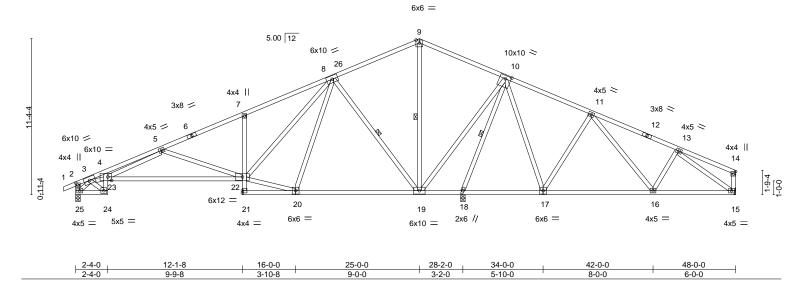
February 10,2021



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T1B Roof Special **DEVELOPMENT SERVICES** Job Reference (optional)

BY SERVICES

8.430 s Nov 30 2020 MiTek Industries, Incl. Table Se SUMMNT, 4405 SOURT Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-uK1mTegTyrZUOIRYq_2nqv2SEiUziBrn0p1lcGzmqlx 1-2-0 03/03/2021 43-9-0 18-9-0 31-3-0 37-6-0 12-1-8 25-0-0 4-3-0 1-2-0 Scale = 1:83.8



1 late Offsets (X, 1) [2.0-2-0,0-1-12], [4.0-3-4,0-3-0], [10.0-3-0,0-2	12]		
COADING (psf) CULL (roof) 20.0 SPACING- 2-0-0	CSI. TC 0.70 BC 0.87 WB 0.99 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 22-23 >999 360 Vert(CT) -0.56 22-23 >594 240 Horz(CT) 0.13 18 n/a n/a	PLATES GRIP MT20 244/190 Weight: 320 lb FT = 3%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

Plate Offsets (X V)--

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2

(size) 15=Mechanical, 25=0-4-0, 18=0-4-0

Max Horz 25=104(LC 13)

Max Uplift 15=-63(LC 12), 25=-31(LC 11), 18=-34(LC 11) Max Grav 15=547(LC 30), 25=889(LC 29), 18=2635(LC 2)

[2:0-2-0 0-1-12] [4:0-3-4 0-3-0] [10:0-5-0 0-2-12]

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

TOP CHORD 3-4=-2346/172, 4-5=-2822/166, 5-7=-1078/52, 7-8=-1057/132, 8-9=0/481, 9-10=0/480,

10-11=-57/602, 11-13=-576/204

BOT CHORD 24-25=-112/637, 23-24=-53/443, 22-23=-180/1586, 7-22=-348/130, 19-20=0/265, 18-19=-1538/155, 17-18=-656/133, 16-17=-382/257, 15-16=-94/535

3-24=-596/89, 3-23=-193/1906, 5-23=-24/1155, 5-22=-699/162, 20-22=0/369,

8-22=-122/1022, 8-19=-960/144, 9-19=-665/27, 10-19=-60/1916, 10-17=-6/651,

11-17=-566/113, 11-16=0/436, 13-15=-644/137, 3-25=-942/23, 10-18=-2724/64

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 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) 15, 25, 18.
- 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



Structural wood sheathing directly applied or 2-11-13 oc purlins,

8-19, 9-19, 10-18

Rigid ceiling directly applied or 4-6-4 oc bracing.

except end verticals.

1 Row at midpt

February 10,2021

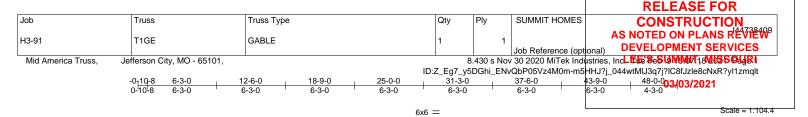


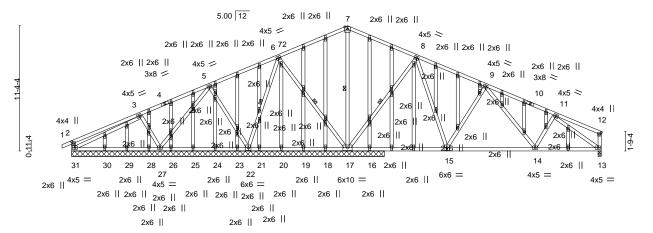
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





	0-0-0	16-0-0	23-0-0	34-0-0	42-0-0	40-0-0	
	8-0-0	8-0-0	9-0-0	9-0-0	8-0-0	6-0-0	
Plate Offsets (X,Y) [2:0-2-0	,0-1-12], [32:0-2-14,0-1-	0], [34:0-2-14,0-1-0]], [43:0-2-9,0-1-0], [45:0-	-2-9,0-1-0], [52:0-2-14,0-1-0], [55:0-2-14,0-1-0]		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	-	CSI. TC 0.67 BC 0.37 WB 0.43 Matrix-SH	DEFL. in (lot vert(LL) Vert(LT) -0.03 14-14-14-14-14-14-14-14-14-14-14-14-14-1	15 >999 360	PLATES MT20 Weight: 451 lb	GRIP 244/190 FT = 3%

LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD

16.0.0

8 A A

BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.2

2x4 SP No.2

Structural wood sheathing directly applied or 5-11-1 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 1 Row at midpt 6-22, 6-17, 7-17, 8-17

REACTIONS. All bearings 28-4-0 except (jt=length) 13=0-3-8.

Max Horz 31=104(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 31, 13 except 22=-157(LC 11), 27=-133(LC 11), 17=-174(LC 12) Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 23, 24, 25, 26, 28, 29, 30, 16 except 22=410(LC 29), 27=440(LC 29), 17=1593(LC 2), 31=306(LC 29), 13=723(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 5-6=0/274, 6-7=0/469, 7-8=0/469, 8-9=-422/98, 9-11=-855/83, 2-31=-301/91 **BOT CHORD** 14-15=0/571, 13-14=-39/753 **WEBS** 3-27=-362/137, 5-22=-306/110, 6-17=-342/81, 7-17=-649/4, 8-17=-851/145,

8-15=-12/599, 9-15=-483/123, 9-14=0/252, 11-13=-917/47

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 2 degree rotation about its center.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 13 except (it=lb) 22=157, 27=133, 17=174.
- 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.



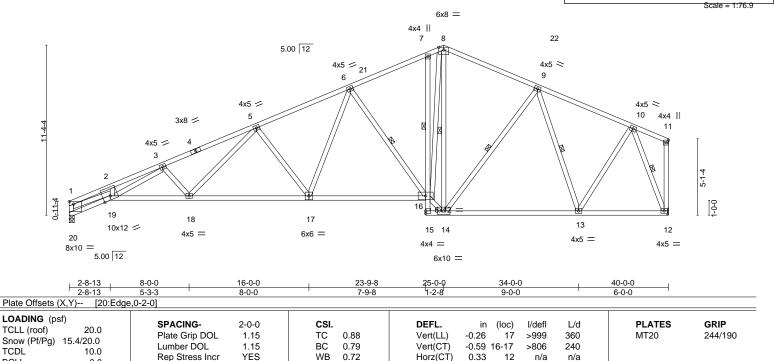
February 10,2021



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



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T2 **ROOF SPECIAL** 6 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. 8-6144407(204155-644); I Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-jUP1khkEYhKe6gvhBF9B4AHRw6Yd6zZgPlU3pwzmglr 6-3-0 3-6-3 23-9-8 25-0-0 1-2-8 31-3-0 4<mark>03/03/2021</mark> 6-3-0 6-3-0 5-0-8 6-3-0



LUMBER-BRACING-

Code IRC2018/TPI2014

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, 2x4 SP No.2 *Except* **BOT CHORD** except end verticals.

Matrix-SH

17-19: 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2x4 SP No.2 *Except* 6-0-0 oc bracing: 15-16. 1-19: 2x4 SP No.1

1 Row at midpt **WEBS** 1 Row at midpt 6-16, 8-14, 9-14, 9-13, 10-12

n/a

REACTIONS. (size) 20=0-4-0, 12=Mechanical Max Horz 20=164(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-20=-1590/100, 1-2=-5032/258, 2-3=-4943/299, 3-5=-3729/159, 5-6=-2678/126,

6-7=-1784/112, 7-8=-1660/143, 8-9=-1557/122, 9-10=-1241/61

Max Uplift 20=-42(LC 11), 12=-1(LC 12) Max Grav 20=1588(LC 2), 12=1588(LC 2)

BOT CHORD 18-19=-220/3730, 17-18=-112/2821, 16-17=-22/2126, 13-14=0/1289, 12-13=-29/604 WEBS

1-19=-206/4368, 3-19=-132/994, 3-18=-563/137, 5-18=-32/816, 5-17=-709/145,

6-17=-14/805, 6-16=-955/130, 14-16=0/1751, 8-16=-108/1921, 8-14=-1014/36,

9-14=-50/260, 9-13=-663/56, 10-13=0/915, 10-12=-1641/38

NOTES-

BCLL

BCDL

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center
- 6) Refer to girder(s) for truss to truss connections.

0.0

10.0

- 7) Bearing at joint(s) 20 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) 20, 12.
- 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.



FT = 3%

Weight: 284 lb





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T2GE COMMON SUPPORTED GAB **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-BgzPx1lsl/?SVkqTukygQcOqobW3Cra9pdPDcMMzmqlq 40-0-0 03/03/2021

25-0-0

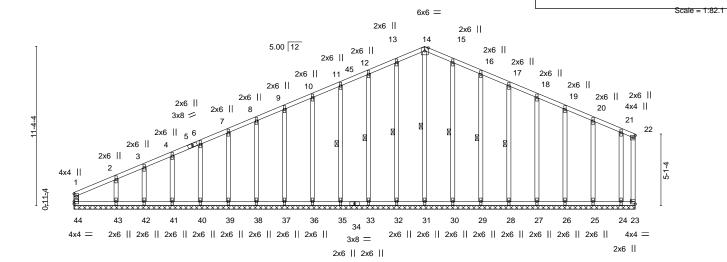


Plate Offsets (X,Y) [23:Edge	e,0-2-0]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.12 BC 0.13 WB 0.13	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 23 n/a n/a)
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 321 lb FT = 3	3%

40-0-0

LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 **WEBS** 14-31, 13-32, 12-33, 11-35, 15-30, 16-29, 1 Row at midpt

15-0-0

REACTIONS. All bearings 40-0-0.

2x4 SP No.2

Max Horz 44=163(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 32, 33, 35, 36, 37, 38, 39, 40, 41, 43, 30, 29, 28, 27, 26,

25, 24

All reactions 250 lb or less at joint(s) 44, 23, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 30, Max Grav

29, 28, 27, 26, 25, 24

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

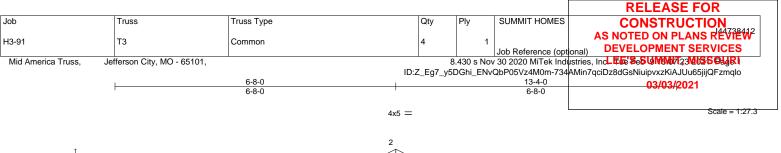
BOT CHORD

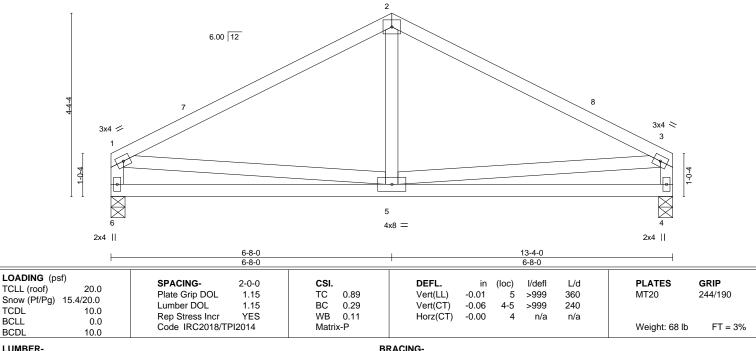
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 32, 33, 35, 36, 37, 38, 39, 40, 41, 43, 30, 29, 28, 27, 26, 25, 24.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 10,2021







TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS.

6=0-4-0, 4=0-4-0 (size) Max Horz 6=61(LC 8) Max Uplift 6=-6(LC 11), 4=-6(LC 12) Max Grav 6=522(LC 2), 4=522(LC 2)

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

1-2=-568/10, 2-3=-568/0, 1-6=-472/35, 3-4=-472/35 TOP CHORD

WEBS 1-5=0/449, 3-5=0/449

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

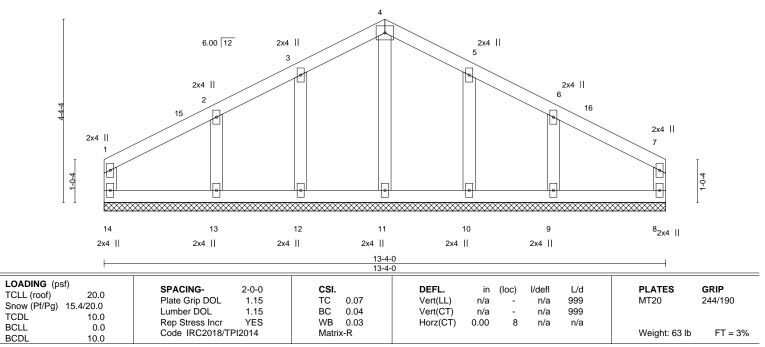
except end verticals.





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T3GE Common Supported Gable **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. 1884/1724/1055 Out It Incl. Incl. Eds. Sci. 1884/1724/1055 Out It Incl. Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-bFeYZ2nllwq3bHCTQ5D7E0SIVk5I2yOFKNSHyhzmqln 03/03/2021 6-8-0 6-8-0 4x5 = Scale = 1:27.3



TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.2

REACTIONS. All bearings 13-4-0. (lb) -Max Horz 14=61(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 12, 13, 10, 9 Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11, 12, 13, 10, 9

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

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 12, 13, 10,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

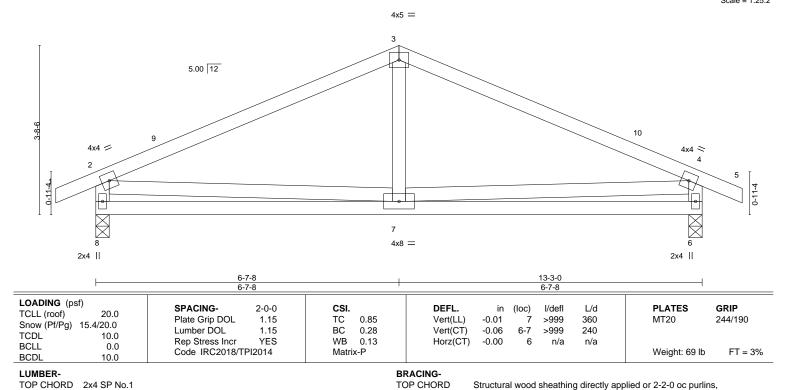
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T4 COMMON 2 **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-3SCwnOoNMDywDRnfzolMnE?H87NknO8PY1BqV7zmqlm 03/03/2021 14-1-8 13-3-0 0-10-8 6-7-8 0-10-8 Scale = 1:25.2



BOT CHORD

except end verticals.

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

BOT CHORD WEBS 2x4 SP No.2

> (size) 8=0-3-8, 6=0-3-8 Max Horz 8=22(LC 10)

Max Uplift 8=-19(LC 11), 6=-19(LC 12)

Max Grav 8=580(LC 2), 6=580(LC 2)

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

2-3=-619/2, 3-4=-619/0, 2-8=-530/48, 4-6=-530/48 TOP CHORD

WFRS 2-7=0/517, 4-7=0/517

2x4 SP No.2

NOTES-

REACTIONS.

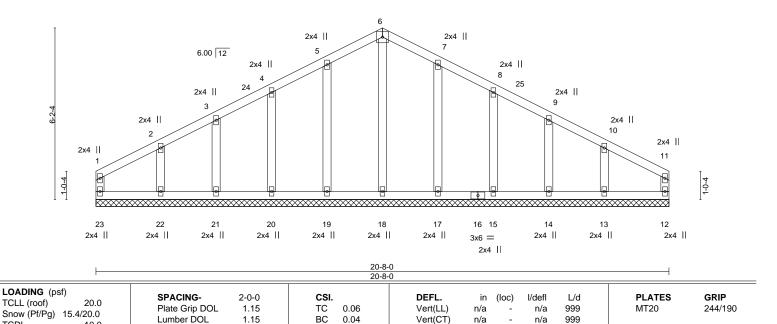
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.







RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW COMMON SUPPORTED GAB H3-91 T4GE **DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-Xeml_kp?/7X4nqbMrXVGbJRXfAXngWqDYnhxN1azmqll 20-8-0 03/03/2021 10-4-0 10-4-0 5x5 = Scale = 1:41.5



Horz(CT)

BOT CHORD

0.00

12

except end verticals.

n/a

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

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins,

LUMBER-BRACING-TOP CHORD

Code IRC2018/TPI2014

YES

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.2

10.0

0.0

10.0

OTHERS 2x4 SP No.2

Rep Stress Incr

All bearings 20-8-0. Max Horz 23=-82(LC 7) Max Uplift All uplift 100 lb or less at joint(s) 23, 12, 19, 20, 21, 22, 17, 15, 14, 13

WB

Matrix-R

0.07

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

NOTES-

TCDI

BCLL

BCDL

WEBS

REACTIONS.

(lb) -

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Max Grav All reactions 250 lb or less at joint(s) 23, 12, 18, 19, 20, 21, 22, 17, 15, 14, 13

- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12, 19, 20, 21, 22, 17, 15, 14, 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

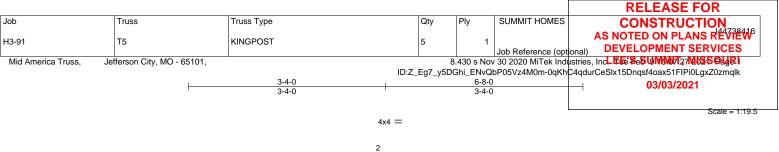


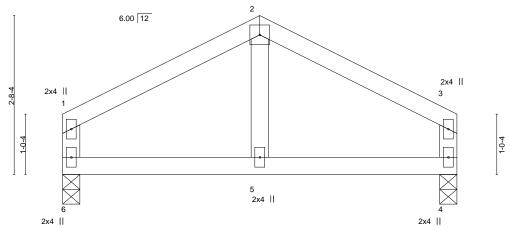
Weight: 113 lb

FT = 3%









	3-4 3-4	•		6-8-0 3-4-0		——		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.15 BC 0.16 WB 0.01 Matrix-R	(/	in (loc) -0.01 & -0.02 & 0.00 4	>999 >999	L/d 360 240 n/a	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 3%

TOP CHORD

BOT CHORD

REACTIONS.

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

> 6=0-3-8, 4=0-3-8 (size)

Max Horz 6=42(LC 8) Max Uplift 6=-3(LC 11), 4=-3(LC 12)

Max Grav 6=263(LC 15), 4=263(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

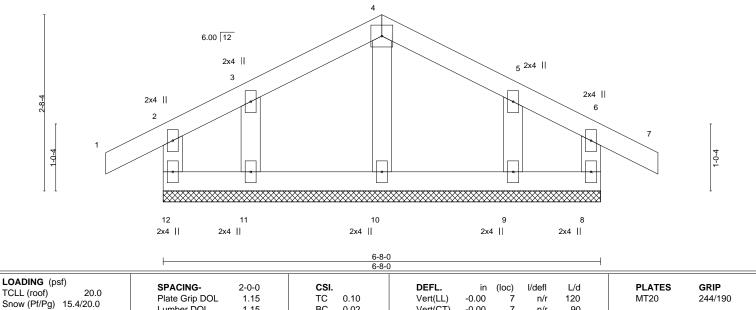
February 10,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T5GE **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-U1u3PQrFf8KV4vWEfwl3Psd_8LTU_IZrE?QU5Szmglj 7-6-8 **03/03/2021** 6-8-0 0-10-8 3-4-0 4x4 = Scale = 1:17.6



Vert(CT)

Horz(CT)

TOP CHORD

BOT CHORD

-0.00

0.00

90

n/a

Structural wood sheathing directly applied or 6-8-0 oc purlins,

n/r

n/a

Rigid ceiling directly applied or 6-0-0 oc bracing.

8

except end verticals.

BCDL 10.0 LUMBER-BRACING-

1.15

YES

ВС

WB

Matrix-R

0.02

0.02

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

2x4 SP No.2

REACTIONS. All bearings 6-8-0. Max Horz 12=48(LC 10) (lb) -

10.0

0.0

Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

TCDI

BCLL

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 2 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 32 lb

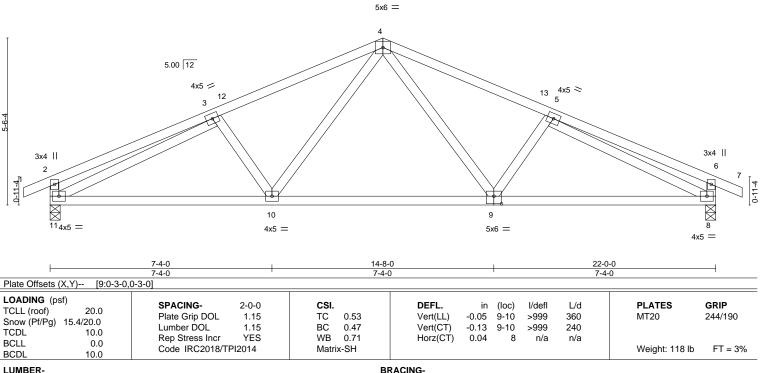
FT = 3%





RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T6 Common **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. 1884 1739 1415 5 644 181 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-yDRRomruQSSMh35QCeplx4926limj10?Tf92evzmqli ²²⁻⁰⁻⁰03/03/2021 22-10-8 0-10-8 0-10-8 5-6-0 5-6-0 5-6-0 5-6-0 Scale = 1:38.1



TOP CHORD

BOT CHORD

REACTIONS.

WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2

(size) 11=0-4-0, 8=0-4-0 Max Horz 11=36(LC 11)

Max Uplift 11=-24(LC 11), 8=-24(LC 12) Max Grav 11=930(LC 2), 8=930(LC 2)

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

2-3=-329/52, 3-4=-1286/51, 4-5=-1286/51, 5-6=-329/52, 2-11=-322/64, 6-8=-322/64 TOP CHORD

BOT CHORD 10-11=-36/1231, 9-10=0/905, 8-9=-0/1231

WFBS 4-9=-12/413, 4-10=-12/413, 3-11=-1121/0, 5-8=-1121/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 2 degree rotation about its center.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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.



Structural wood sheathing directly applied or 4-3-8 oc purlins,

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

except end verticals.

February 10,2021





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

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

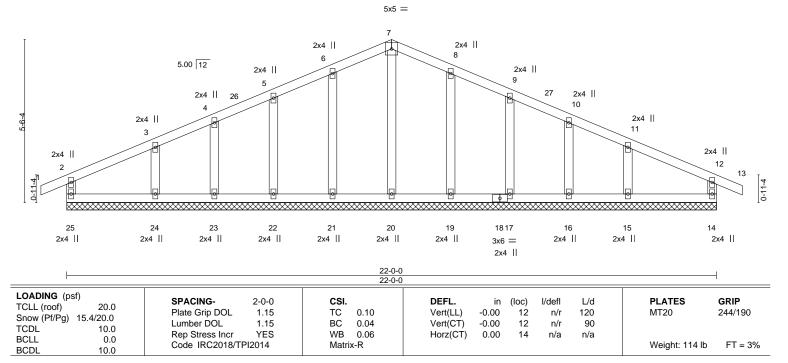
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 T6GE Common Supported Gable **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. 1884/7301655 Page 1 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-QP?pq6sWBmaDJCfcmLKXUHiKe89eSfT8iJvbALzmqlh 0-10-8 0-10-8 22-0-0 03/03/2021 11-0-0 11-0-0 Scale = 1:39.0



LUMBER-BRACING-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2 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 22-0-0.

(lb) -Max Horz 25=36(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 21, 22, 23, 24, 19, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 25, 14, 20, 21, 22, 23, 24, 19, 17, 16, 15

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Plates checked for a plus or minus 2 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22, 23, 24, 19, 17, 16, 15
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

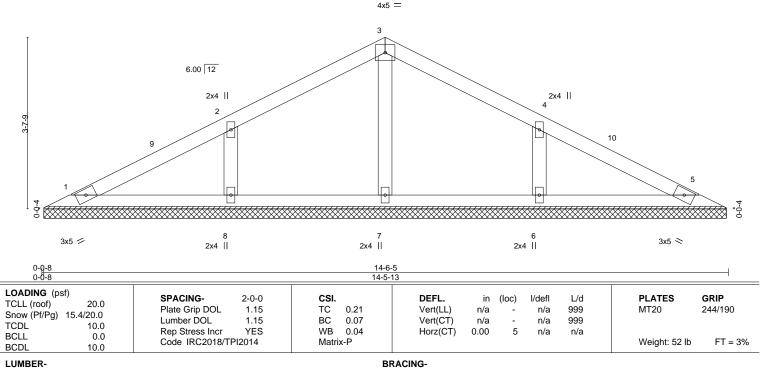


February 10,2021





						KELEASE FUK
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	
H3-91	V1	Valley	1	1		AS NOTED ON PLANS REVIEW
110 01	<u> </u>	vancy			Job Reference (opt	
Mid America Truss,	Jefferson City, MO - 65101,			8.430 s Nov	30 2020 MiTek Indu	ustries, Incl. Etc. SeSUMMIT31MbSSOugRI
			ID:Z_Eg7_y5DGI	hi_ENvQbP(05Vz4M0m-ubZB1S	8y3i4xMEpK3rm0VFTZYTSB60Hxze8inzmqlg
	7-3-2				14-6-5	03/03/2021
ı	7-3-2		1		7-3-2	00/00/2021
						Soolo 1:24 4



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.2

REACTIONS. All bearings 14-5-5. Max Horz 1=-38(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 6, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=382(LC 16), 8=382(LC 15)

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

4-6=-306/97, 2-8=-306/97 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



February 10,2021



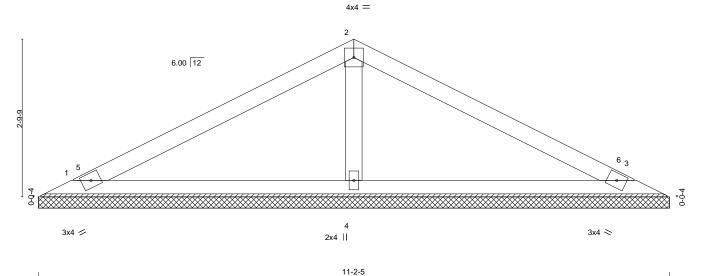


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 V2 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Edg. Sci. 1844731 Miss South Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-ubZB1St8y3i4xMEpK3rm0VFMpYSoB6_Hxze8inzmqlg 11-2-5 03/03/2021 5-7-2 Scale = 1:20.4



		11-2-	5						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.17 WB 0.04 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 244/190 FT = 3%
LUMBER-		BF	RACING-					1	

TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No.2 **BOT CHORD**

OTHERS 2x4 SP No.2

> 1=11-2-5, 3=11-2-5, 4=11-2-5 (size) Max Horz 1=28(LC 8)

Max Uplift 1=-21(LC 11), 3=-26(LC 12)

Max Grav 1=238(LC 15), 3=238(LC 16), 4=394(LC 2)

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

2-4=-270/44 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 V3 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Incl. Eds. Sci. 1884/732165504481 Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-Mo7aFnumjNqxYWp?umN?ZinelypXwZUR9dOiEDzmqlf 7-10-5 03/03/2021 3-11-2 3-11-2 Scale = 1:15.0 4x4 = 2 6.00 12 3 3x4 / 3x4 < 7-10-5 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 0.25 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

10.0

0.0

10.0

OTHERS 2x4 SP No.2

REACTIONS. 1=7-9-5, 3=7-9-5, 4=7-9-5 (size) Max Horz 1=19(LC 8) Max Uplift 1=-14(LC 11), 3=-17(LC 12)

Max Grav 1=155(LC 15), 3=155(LC 16), 4=262(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

ВС

WB

Matrix-P

0.08

0.02

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

999

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins.

n/a

n/a

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

3

- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.

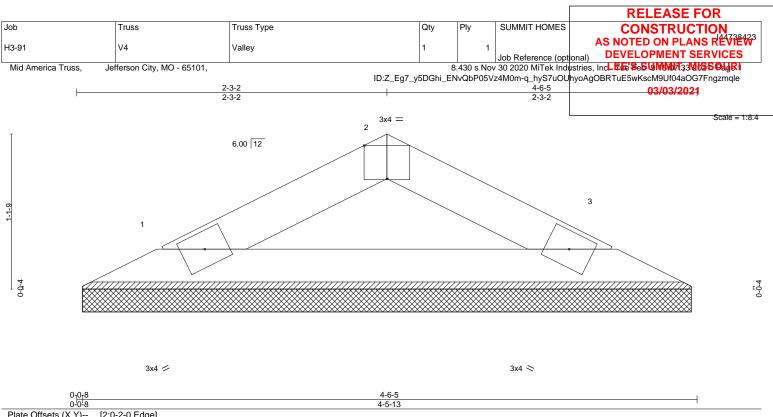


Weight: 25 lb

FT = 3%







1 late 0113013 (A, 1) [2.0 2 0	,Lugoj							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.10 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loo n/a n/a 0.00	c) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 12 lb	FT = 3%

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 4-6-5 oc purlins.

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

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

Max Horz 1=-9(LC 7)

Max Uplift 1=-2(LC 11), 3=-2(LC 12) Max Grav 1=131(LC 2), 3=131(LC 2)

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

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.







RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS REVIEW H3-91 V5 **GABLE DEVELOPMENT SERVICES** Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-IAFKgTv0F_5foqzO?BPTe7tv9mUhOTnkdwtoJ6zmqld 03/03/2021 5-6-10 5-6-10 Scale = 1:17.8 4x4 = 5.00 12 3x4 = 3x4 > 2x4 || 11-1-4 11-1-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.57 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 34 lb FT = 3% **BCDL** 10.0 LUMBER-**BRACING-**TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.2

REACTIONS. 1=11-1-4, 3=11-1-4, 4=11-1-4 (size)

Max Horz 1=-21(LC 12) Max Uplift 1=-19(LC 11), 3=-23(LC 12)

Max Grav 1=227(LC 15), 3=227(LC 16), 4=390(LC 2)

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

2-4=-270/46 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



February 10,2021

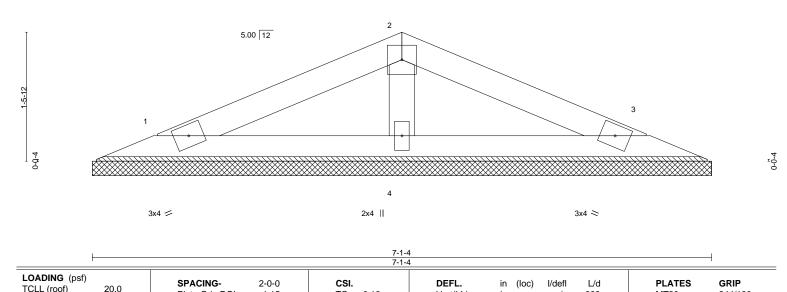


MiTek

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

RELEASE FOR Job Truss Truss Type Qty SUMMIT HOMES CONSTRUCTION AS NOTED ON PLANS RE H3-91 V₆ **GABLE DEVELOPMENT SERVICES** Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Incl. Fire SeS UNBOT35 1055 CAGE Mid America Truss, Jefferson City, MO - 65101, ID:Z_Eg7_y5DGhi_ENvQbP05Vz4M0m-nNpitpwe?IDWP_YaZuwiBLPAJ9sa7wItracMrYzmqlc 03/03/2021 3-6-10 3-6-10 Scale = 1:13.2

4x4 =



TC

ВС

WB

Matrix-P

0.16

0.06

0.02

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

Snow (Pf/Pg) 15.4/20.0

OTHERS 2x4 SP No.2 **BRACING-**

TOP CHORD BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

Structural wood sheathing directly applied or 6-0-0 oc purlins.

999

999

n/a

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

n/a

n/a

n/a

3

REACTIONS. 1=7-1-4, 3=7-1-4, 4=7-1-4 (size)

10.0

0.0

10.0

Max Horz 1=12(LC 13)

Max Uplift 1=-11(LC 11), 3=-13(LC 12)

Max Grav 1=124(LC 15), 3=124(LC 16), 4=228(LC 2)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

1.15

YES

- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 2 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



244/190

FT = 3%

MT20

Weight: 21 lb



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW BEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURITY Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate plates 0. 1/1/2" from outside

PLATE SIZE

* Plate location details available in MiTek 20/20

connector plates.

This symbol indicates the required direction of slots in plates 0- 1/16" from outside

edge of truss.

software or upon request.

4 × 4

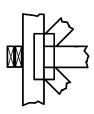
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



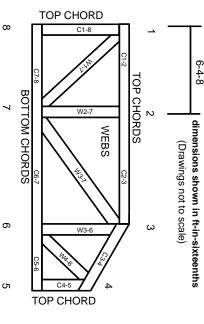
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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.

© 2012 MiTek® All Rights Reserved



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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

Ģ

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANS/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.