

| | | | | | |
|---------------------------------------|-------------|---------------------------|--|----------|---------------------|
| Job 251276 | Truss FL | Truss Type Flat Girder | Qty 1 | Ply 2 | REUNION @ BLACKWELL |
| Heartland Truss, LLC, Plattsburg, MO. | | | 25.4 0 s Nov 25 2025 MiTek Industries, Inc. Wed Jan 7 08:40:38 2026 Page 1 | | |
| 2-10-10 | 5-7-9 | 8-4-7 | 11-1-6 | 14-0-0 | 14-0-0 |

MiTek®

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Re: 251276
REUNION @ BLACKWELL

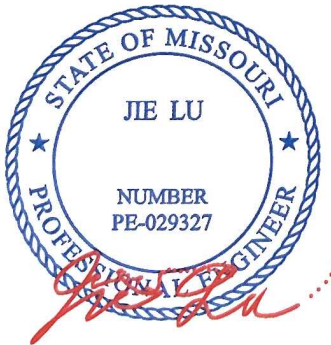
**RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/20/2026 9:44:07**

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

Pages or sheets covered by this seal: I78868296 thru I78868298

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: Engineering 001193



January 7, 2026

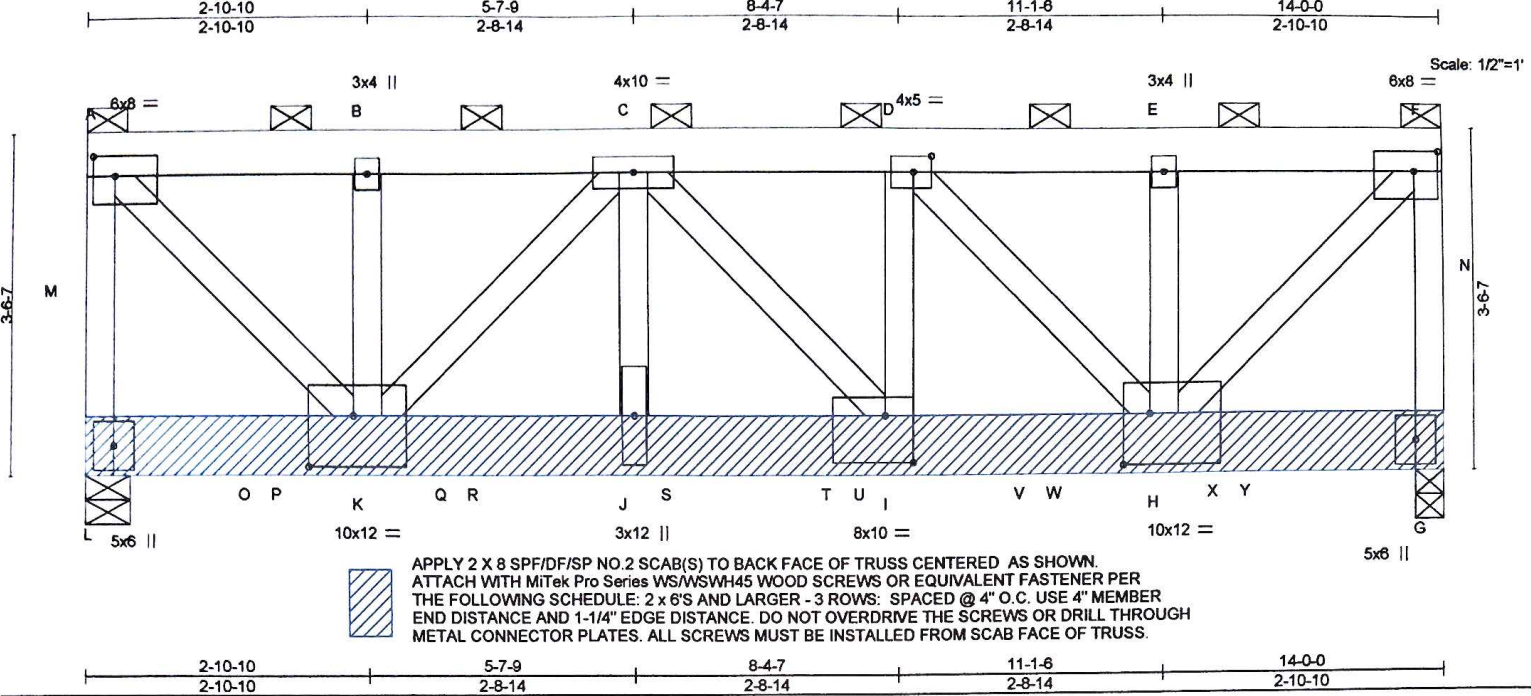
Lu, Jie, Engineer

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 TRESCO. Any project specific information included is for MiTek's or TRESCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRESCO 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.

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|---------------|-------------|---------------------------|----------|----------|---------------------|
| Job 251278 | Truss FL | Truss Type Flat Girder | Qty 1 | Ply 2 | REUNION @ BLACKWELL |
|---------------|-------------|---------------------------|----------|----------|---------------------|

Heartland Truss, LLC, Plettsburg, MO.

25.4.0 s Nov 25 2025 MiTek Industries, Inc. Wed Jan 7 08:40:38 2026 Page 1
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| | |
|-----------------------|--|
| Plate Offsets (X,Y) - | [A:0-2-12,0-2-8], [D:0-2-4,0-2-0], [F:0-3-0,0-2-8], [H:0-3-4,0-6-4], [I:0-3-8,0-5-12], [K:0-5-8,0-6-4] |
|-----------------------|--|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------------|----------------------|-------|-----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 (Roof Snow=20.0) | Plate Grip DOL | 1.15 | TC 0.95 | Vert(LL) | -0.07 | I-J | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.39 | Vert(CT) | -0.14 | I-J | >999 | | |
| BCLL 10.0 | Rep Stress Incr | NO | WB 0.80 | Horz(CT) | 0.02 | G | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-MS | Wind(LL) | 0.07 | I-J | >999 | Weight: 248 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 A-K,C-K,C-I,D-H,F-H: 2x4 SP 1650F 1.5E

BRACING-
 TOP CHORD 2-0-0 oc purlins (5-4-2 max.): A-F, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) L=7813/0-5-8, G=8920/0-3-8
 Max Horz L=-69(LC 8)
 Max Uplift L=-1216(LC 8), G=-1372(LC 9)
 Max Grav L=8135(LC 2), G=9294(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD L-M=7026/2011, A-M=7026/2011, A-B=6335/1748, B-C=6335/1748, C-D=9526/2666,
 D-E=6215/1753, E-F=6215/1753, G-N=6902/1988, F-N=6902/1988
 BOT CHORD K-Q=2559/9436, Q-R=2559/9436, J-R=2559/9436, J-S=2559/9436, S-T=2559/9436,
 T-U=2559/9436, I-U=2559/9436, I-V=2590/9526, V-W=2590/9526, H-W=2590/9526
 WEBS A-K=2576/9271, C-K=4602/1316, C-J=765/3209, D-I=796/3405, D-H=4912/1354,
 F-H=2531/9100

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) L, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide metal plate or equivalent at bearing(s) L, G to support reaction shown.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1216 lb uplift at joint L and 1372 lb uplift at joint G.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 7, 2026

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 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 ANSITPI Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | |
|---------------|-------------|---------------------------|----------|----------|---|
| Job 251276 | Truss FL | Truss Type Flat Girder | Qty 1 | Ply 2 | REUNION @ BLACKWELL Job Reference (optional) |
|---------------|-------------|---------------------------|----------|----------|---|

Heartland Truss, LLC, Plattsburg, MO

25 4 0 s Nov 25 2025 MiTek Industries, Inc. Wed Jan 7 08:40:38 2026 Page 2
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NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1508 lb down and 220 lb up at 1-8-12, 335 lb down and 48 lb up at 2-0-12, 1508 lb down and 220 lb up at 3-8-12, 335 lb down and 48 lb up at 4-0-12, 1508 lb down and 220 lb up at 5-8-12, 335 lb down and 48 lb up at 6-0-12, 1508 lb down and 220 lb up at 7-8-12, 335 lb down and 48 lb up at 8-0-12, 1508 lb down and 220 lb up at 9-8-12, 335 lb down and 48 lb up at 10-0-12, 1508 lb down and 220 lb up at 11-8-12, and 335 lb down and 48 lb up at 12-0-12, and 1521 lb down and 213 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-F=-60, G-L=-275(F=-255)

Concentrated Loads (lb)

Vert: J=-1446(B) G=-1453(B) O=-1446(B) P=-335(F) Q=-1446(B) R=-335(F) S=-335(F) T=-1446(B) U=-335(F) V=-1446(B) W=-335(F) X=-1446(B) Y=-335(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

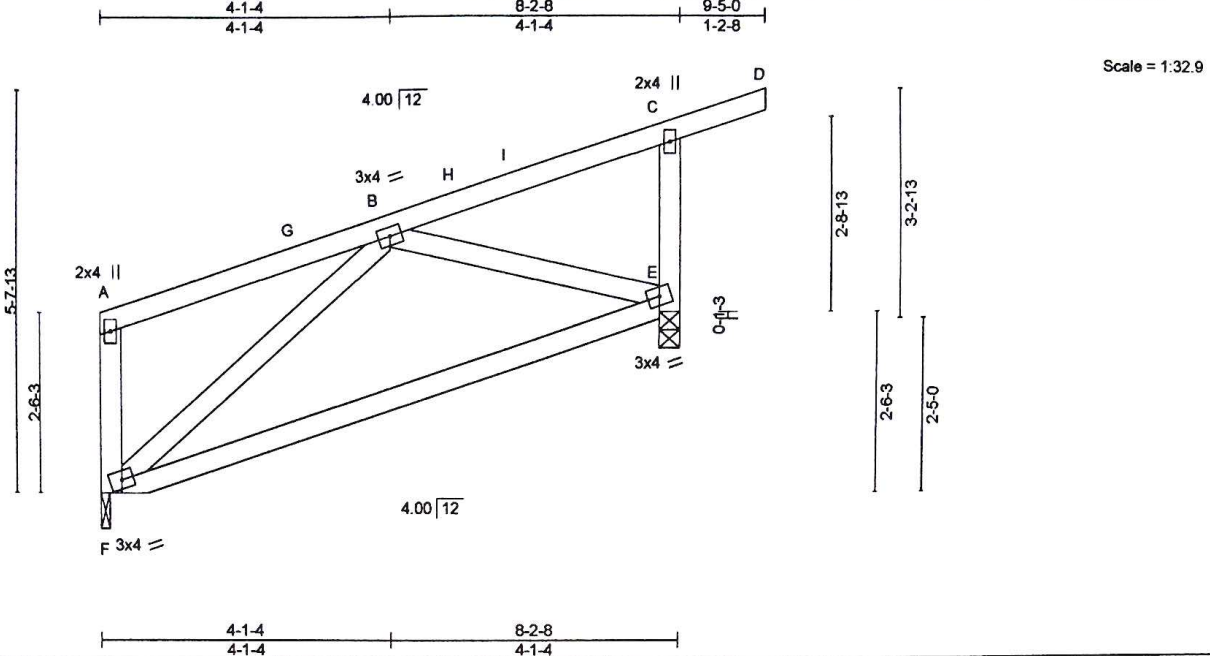
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANS/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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|---------------|-------------|----------------------------|----------|----------|---------------------|-----------|
| Job 251276 | Truss J2 | Truss Type Roof Special | Qty 6 | Ply 1 | REUNION @ BLACKWELL | 178868298 |
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Heartland Truss, LLC., Plattsburg, MO - 64477, 25.4.0 s Dec 15 2025 MiTek Industries, Inc. Tue Jan 6 12:22:52 2026 Page 1
 ID:pl0Jjwz1gNmL9fVaV_8Dgy7jUH-1ytjO?G2OoQdpmkeHcOI0V4Hqs2ZOanAAIQadezy4M1



| | | | | | |
|--|---|---|--|--|--|
| LOADING (psf) TCLL 20.0 (Roof Snow=20.0) TCDL 10.0 BCLL 10.0 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 0.19 BC 0.40 WB 0.24 Matrix-MP | DEFL. in (loc) l/def L/d Vert(LL) -0.17 E-F >546 360 Vert(CT) -0.35 E-F >273 240 Horz(CT) 0.00 E n/a n/a Wind(LL) -0.00 F >999 240 | PLATES MT20 Weight: 47 lb | GRIP 244/190 FT = 20% |
|--|---|---|--|--|--|

| | |
|--|--|
| LUMBER- TOP CHORD 2x4 SP 1650F 1.5E BOT CHORD 2x4 SP 2400F 2.0E WEBS 2x4 SP No.3 | BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
|--|--|

REACTIONS. (size) F=0-1-8, E=0-3-8
 Max Horz F=176(LC 9)
 Max Uplift F=28(LC 8), E=122(LC 9)
 Max Grav F=365(LC 3), E=548(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-E=285/223
 BOT CHORD E-F=206/336
 WEBS B-F=413/164, B-E=311/241

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-2-1, Exterior(2R) 5-2-1 to 9-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) F, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F except (jt=E) E=122.
- 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.



January 7, 2026