





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

Re: 242042

GENE BOSLEY RES. / ROOF

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, Inc..

Pages or sheets covered by this seal: I69875878 thru I69875976

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: Engineering 001193



November 27,2024

Johnson, Andrew

,Engineer

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

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Piggyback Base Heartland Truss, Inc, Plattsburg, MO - 64477,

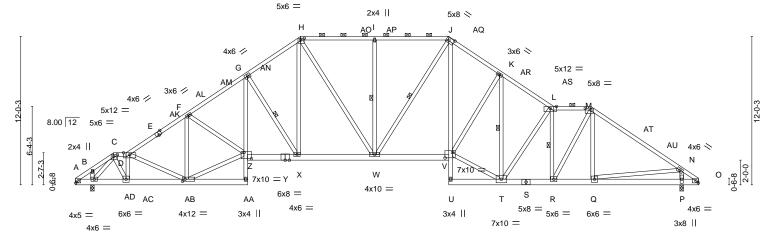
Truss Type

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 89-07 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-n6TdPpKFNFUVRTXH\$XhbkjerTmDMggDJG

GENE BOSLEY RES. / ROO

30-2-8 6-0-0 1-0-0

Scale = 1:93.3



Qty

1-4-4 50-5-0 1-2-8 4-1-0 1-2-8 2-8-12 49-2-8 0-1-12 0-1-12 1-2-8

Plate Offsets (X,Y)	[C:0-3-8,0-1-12], [E:0-3-0,Edge], [H:0-3-8	8,0-1-12], [J:0-5-8,0-2-8], [M:0-5-8,0-1-12], [V:0-7-4,0-5-4], [Z	::0-7-4,0-6-0], [AB:0-2-8,0-2-0]

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.87 BC 0.81 WB 0.88	DEFL. in (loc) l/defl L/d Vert(LL) -0.32 V-W >999 240 Vert(CT) -0.52 V-W >999 180 Horz(CT) 0.25 P n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	, ,	Weight: 424 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

Job

242042

2x4 SP No.2 *Except*

E-H,H-J,D-E: 2x4 SP 1650F 1.5E, M-O: 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1 *Except*

A-AA: 2x6 SP 2400F 2.0E, G-AA,J-U: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* C-AC,Z-AB,T-V: 2x4 SP No.2

REACTIONS. (size) AD=0-3-8, P=0-3-8

Max Horz AD=-287(LC 10)

Truss

01

Max Uplift AD=-185(LC 12), P=-205(LC 13) Max Grav AD=2981(LC 40), P=2935(LC 40)

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

TOP CHORD A-B=-375/20, B-C=-475/76, C-D=-3262/301, D-F=-4013/393, F-G=-4728/498, G-H=-3613/495, H-I=-3008/482, I-J=-3008/482, J-K=-3838/531, K-L=-3641/486,

L-M=-3504/451, M-N=-3560/377, N-O=-511/15

BOT CHORD A-AD=0/323, AC-AD=-268/2026, AB-AC=-327/3095, G-Z=-129/1454, X-Z=-209/3797,

W-X=-148/2834, V-W=-87/3013, J-V=-168/1787, R-T=-253/3468, Q-R=-180/2715,

P-Q=-122/753, O-P=-122/753

WEBS B-AD=-286/78, C-AD=-2774/220, C-AC=-232/2697, D-AC=-2558/275, F-AB=-1439/148,

Z-AB=-270/3452, F-Z=-30/797, G-X=-1722/286, H-X=-163/1299, H-W=-193/764,

I-W=-890/193, J-W=-233/321, T-V=-179/3329, K-V=-147/490, K-T=-831/87, L-T=-872/185,

L-R=-1460/183, M-R=-167/1692, N-Q=-92/1978, N-P=-2961/471

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-1-0, Interior(1) 4-1-0 to 13-2-0, Exterior(2R) 13-2-0 to 23-3-1, Interior(1) 23-3-1 to 25-3-12, Exterior(2R) 25-3-12 to 35-4-12, Interior(1) 35-4-12 to 38-8-8, Exterior(2R) 38-8-8 to 45-4-8, Exterior(2E) 45-4-8 to 50-5-0 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=25.0 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.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AD=185, P=205.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

G-X, I-W, J-W, K-T, L-R

2-0-0 oc purlins (2-4-15 max.): C-D, H-J, L-M.

1 Row at midpt

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

November 27,2024

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



GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

242042 02 Piggyback Base Job Reference (optional)

Truss Type

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-FJ00d9Lt8ZcM2d6T?FDqHw/

Structural wood sheathing directly applied, except

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

E-V, G-U, H-U, I-Q

2-0-0 oc purlins (3-1-4 max.): F-H, I-J.

2-2-0 oc bracing: W-X.

1 Row at midpt

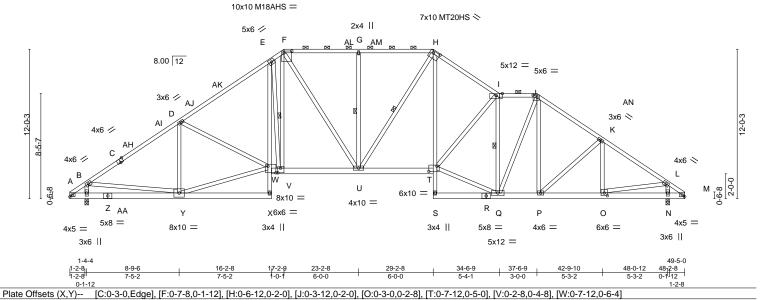
Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

Job

29-2-8 6-0-0

Scale = 1:92.6



Qty

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	1.00 0.92 0.97	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.47 0.21	(loc) T-U T-U N	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS M18AHS	GRIP 244/190 187/143 186/179	
BCLL 0.0 BCDI 10.0	Code IRC2018/TF	PI2014	Matri		(**)				., -	Weight: 427 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP 1650F 1.5E *Except* TOP CHORD

I-J,J-M,A-C: 2x4 SP No.2

BOT CHORD 2x6 SP No.1 *Except*

E-X: 2x4 SP No.2, H-S: 2x4 SP No.3 **WEBS** 2x4 SP No.3 *Except*

W-Y,Q-T: 2x4 SP No.2

REACTIONS. (size) AA=0-3-8, N=0-3-8 Max Horz AA=-287(LC 8)

Max Uplift AA=-174(LC 12), N=-204(LC 13) Max Grav AA=2683(LC 36), N=2890(LC 36)

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

TOP CHORD A-B=-464/0, B-D=-3499/341, D-E=-3695/437, E-F=-3437/551, F-G=-2925/448,

G-H=-2925/448, H-I=-3612/480, I-J=-2907/427, J-K=-3234/412, K-L=-3403/335,

BOT CHORD A-AA=-69/549, Y-AA=-282/699, E-W=-48/782, V-W=-184/2671, U-V=-169/2639,

T-U=-67/2832, H-T=-124/1555, P-Q=-123/2505, O-P=-187/2684, N-O=-33/391,

M-N=-33/391

WEBS B-AA=-2485/389, B-Y=-125/2252, D-Y=-1038/168, W-Y=-215/2642, D-W=-70/524,

E-V=-1487/310, F-V=-338/1677, F-U=-199/764, G-U=-874/192, H-U=-235/264, Q-T=-169/3083, I-T=-170/302, I-Q=-2309/237, J-Q=-111/1248, J-P=-57/340,

K-P=-331/198, K-O=-465/114, L-O=-182/2337, L-N=-2617/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-11-5, Interior(1) 4-11-5 to 12-3-4, Exterior(2R) 12-3-4 to 22-1-13 , Interior(1) 22-1-13 to 24-4-15, Exterior(2R) 24-4-15 to 29-4-4, Exterior(2E) 29-4-4 to 34-6-9, Exterior(2R) 34-6-9 to 42-5-14, Interior(1) 42-5-14 to 44-5-11, Exterior(2E) 44-5-11 to 49-5-0 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=25.0 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AA=174, N=204 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024





GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

LEE'S SUMMIT, MISSOURI

03 Piggyback Base Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27-97 86

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

Job

242042

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-jVaOqVMVvskDpnhfZyk3q8j9qZ 35-7-0 4-8-14

Structural wood sheathing directly applied, except

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

E-V, G-U, H-U, I-Q

2-0-0 oc purlins (2-10-15 max.): F-H, I-J.

2-2-0 oc bracing: W-X.

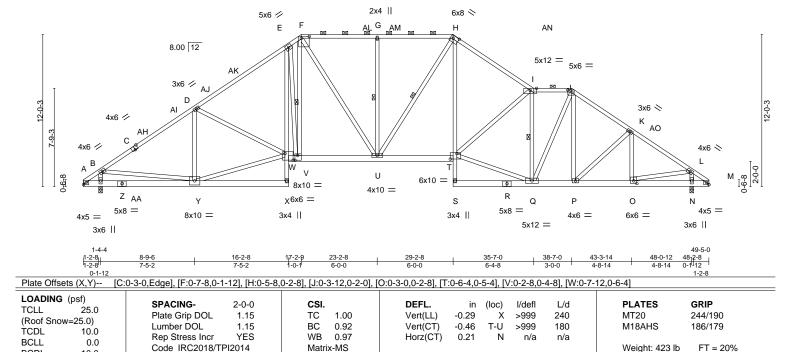
1 Row at midpt

Qty

10x10 M18AHS =

Truss Type

Scale = 1:91.0



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

2x4 SP No.2 *Except* TOP CHORD

C-F,F-H: 2x4 SP 1650F 1.5E, H-I: 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1 *Except*

E-X: 2x4 SP No.2, H-S: 2x4 SP No.3 2x4 SP No.3 *Except*

WEBS W-Y,Q-T: 2x4 SP No.2

REACTIONS. (size) AA=0-3-8, N=0-3-8

Max Horz AA=-287(LC 8)

Max Uplift AA=-174(LC 12), N=-204(LC 13) Max Grav AA=2689(LC 36), N=2884(LC 36)

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

TOP CHORD A-B=-465/0, B-D=-3508/361, D-E=-3708/459, E-F=-3448/573, F-G=-2911/474,

G-H=-2911/474, H-I=-3670/501, I-J=-3069/452, J-K=-3274/429, K-L=-3329/346,

BOT CHORD A-AA=-69/549, Y-AA=-282/699, E-W=-46/785, V-W=-179/2681, U-V=-164/2649,

T-U=-84/2850, H-T=-119/1498, P-Q=-154/2556, O-P=-203/2637, N-O=-25/347,

M-N=-25/347

WEBS B-AA=-2490/401, B-Y=-139/2259, D-Y=-1042/169, W-Y=-215/2649, D-W=-70/521,

> E-V=-1487/310, F-V=-337/1676, F-U=-198/757, G-U=-871/193, H-U=-252/267, Q-T=-215/3163, I-T=-299/254, I-Q=-2266/285, J-Q=-144/1344, J-P=-55/270,

K-O=-544/119, L-O=-201/2344, L-N=-2573/309

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-11-5, Interior(1) 4-11-5 to 12-3-4, Exterior(2R) 12-3-4 to 22-1-13 , Interior(1) 22-1-13 to 24-4-15, Exterior(2R) 24-4-15 to 34-3-9, Interior(1) 34-3-9 to 35-7-0, Exterior(2R) 35-7-0 to 43-3-14, Interior(1) 43-3-14 to 44-5-11, Exterior(2E) 44-5-11 to 49-5-0 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=25.0 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.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AA=174, N=204 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024

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



GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

04

Truss Type

Piggyback Base

24-2-8 6-0-0

Job

242042

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 86

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-fui8FANIRU_xv5r2hNmXvZcvVVAbCCR4J 30-2-8 6-0-0

Structural wood sheathing directly applied, except

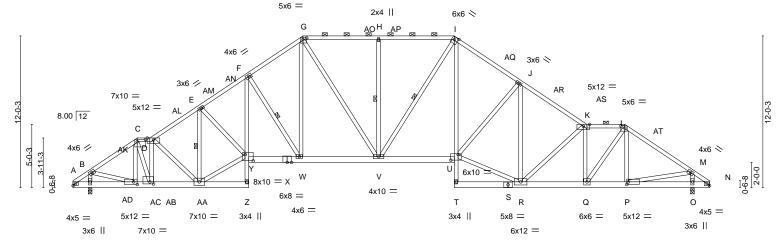
Rigid ceiling directly applied or 10-0-0 oc bracing.

E-AA, F-W, H-V, I-V

2-0-0 oc purlins (2-7-13 max.): C-D, G-I, K-L.

1 Row at midpt

Scale = 1:91.3



Qty

50-5-0 1-4-4 49₁2-8 0-1-12 1-2-8 0-1-12 1-2-8 Plate Offsets (X,Y)--[C:0-7-12,0-2-0], [G:0-3-8,0-1-12], [I:0-3-8,0-2-8], [L:0-3-12,0-2-0], [P:0-1-12,0-2-8], [U:0-7-0,0-5-4], [Y:0-7-12,0-6-0], [AB:0-3-8,0-2-0], [AC:0-3-8,0-2-8], [P:0-1-12,0-2-8], [P:0-1-12,0

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.99	DEFL. in (loc) I/defl L/d Vert(LL) -0.34 U-V >999 240	PLATES GRIP MT20 244/190
(Roof Snow=25.0) TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.81 WB 0.98	Vert(CT) -0.55 U-V >999 180 Horz(CT) 0.25 O n/a n/a	
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 424 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

G-I,I-K: 2x4 SP 1650F 1.5E

BOT CHORD 2x6 SP No.1 *Except*

A-Z: 2x6 SP 2400F 2.0E, F-Z,I-T: 2x4 SP No.3 2x4 SP No.3 *Except*

WEBS Y-AA,R-U: 2x4 SP No.2

REACTIONS. (size) AD=0-3-8. O=0-3-8

Max Horz AD=-287(LC 8)

Max Uplift AD=-185(LC 12), O=-205(LC 13) Max Grav AD=2997(LC 40), O=2919(LC 40)

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

TOP CHORD A-B=-330/15, B-C=-3267/291, C-D=-3280/328, D-E=-3826/403, E-F=-4689/499,

F-G=-3618/489, G-H=-3018/476, H-I=-3018/476, I-J=-3902/511, J-K=-3928/465,

K-L=-3913/444, L-M=-3415/342, M-N=-354/14

BOT CHORD A-AD=-12/313, AC-AD=-272/470, AB-AC=-273/2616, AA-AB=-297/3191, F-Y=-144/1504,

W-Y=-198/3807, V-W=-139/2842, U-V=-87/3037, I-U=-140/1744, Q-R=-293/3858,

P-Q=-183/2668, O-P=-57/449, N-O=-57/449

WEBS B-AD=-2646/281, B-AC=-164/2372, C-AC=-610/70, C-AB=-190/2165, D-AB=-2164/224,

E-AA=-1673/129, Y-AA=-252/3526, E-Y=-41/988, F-W=-1724/285, G-W=-160/1281. G-V=-191/747, H-V=-890/192, I-V=-237/335, R-U=-194/3382, J-U=-289/330, J-R=-647/80,

K-R=-945/182, K-Q=-1774/220, L-Q=-207/2219, L-P=-409/83, M-P=-153/2250,

M-O=-2767/362

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 6-1-0, Interior(1) 6-1-0 to 13-2-0, Exterior(2R) 13-2-0 to 23-3-1, Interior(1) 23-3-1 to 25-3-12, Exterior(2R) 25-3-12 to 35-5-8, Interior(1) 35-5-8 to 40-8-8, Exterior(2R) 40-8-8 to 45-4-8, Exterior(2E) 45-4-8 to 50-5-0 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=25.0 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.
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AD=185, O=205.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024

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AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

GENE BOSLEY RES. / ROO

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-74GWSWONCn6nXFQEE5HmRmL NpvkIvQDF

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

D-Z, E-V, G-U, H-U, J-Q

2-0-0 oc purlins (2-5-8 max.): C-D, F-H, J-K.

1 Row at midpt

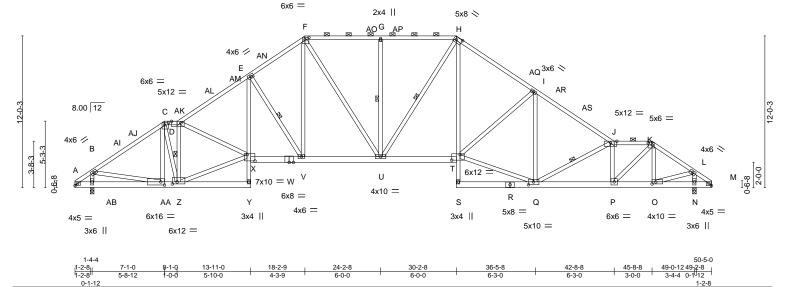
Rigid ceiling directly applied or 10-0-0 oc bracing

30-2-8 6-0-0 18-2-9 4-3-9 24-2-8 6-0-0 6-3-0

Truss Type

Piggyback Base

Scale = 1:91.3



Qty

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

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.79 BC 0.86 WB 0.95	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.33 T-U -0.53 T-U 0.25 N	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT)	0.25 N	n/a n/a	Weight: 413 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

242042

Heartland Truss, Inc,

Truss

Plattsburg, MO - 64477,

05

TOP CHORD 2x4 SP No.2 *Except*

A-C,F-H: 2x4 SP 1650F 1.5E, D-F,H-J: 2x4 SP 2400F 2.0E

2x6 SP No.1 *Except* **BOT CHORD**

A-Y: 2x6 SP 2400F 2.0E, E-Y,H-S: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* X-Z,Q-T,K-P: 2x4 SP No.2

REACTIONS. AB=0-3-8, N=0-3-8 (size) Max Horz AB=287(LC 9)

Max Uplift AB=-185(LC 12), N=-205(LC 13)

Max Grav AB=3012(LC 40), N=2904(LC 40)

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

TOP CHORD A-B=-432/4, B-C=-3588/339, C-D=-3210/360, D-E=-4697/495, E-F=-3648/498,

F-G=-3035/477, G-H=-3035/477, H-I=-3971/500, I-J=-4213/451, J-K=-4479/449,

K-L=-3056/291, L-M=-252/18

BOT CHORD A-AB=-55/529, AA-AB=-281/663, Z-AA=-251/2804, E-X=-93/1277, V-X=-199/3808, U-V=-130/2849, T-U=-93/3063, H-T=-122/1712, P-Q=-341/4387, O-P=-171/2451

B-AB=-2832/368, B-AA=-137/2304, C-AA=-320/46, C-Z=-142/1779, D-Z=-3042/293,

X-Z=-267/3243, D-X=-27/773, E-V=-1717/296, F-V=-172/1310, F-U=-187/723, G-U=-886/192. H-U=-235/357. Q-T=-217/3517. I-T=-466/279. I-Q=-539/88

J-Q=-1159/193, J-P=-2089/254, K-P=-263/2941, K-O=-709/92, L-O=-177/2292,

L-N=-2598/282

NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 5-0-8, Exterior(2R) 5-0-8 to 7-1-0, Exterior(2E) 7-1-0 to 8-1-0, Interior(1) 8-1-0 to 13-2-0, Exterior(2R) 13-2-0 to 23-3-1, Interior(1) 23-3-1 to 25-3-12, Exterior(2R) 25-3-12 to 35-4-12, Interior(1) 35-4-12 to 42-8-8, Exterior(2R) 42-8-8 to 45-8-8, Exterior(2E) 45-8-8 to 50-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AB=185, N=205. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024





GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

06

Truss Type

Roof Special Girder

Job

242042

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Yfyf5YQGUiUMOi8p vDrT3PzCH

Job Reference (optional)

Structural wood sheathing directly applied, except

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

E-AD, F-Z, H-Y, I-Y, J-V, K-V

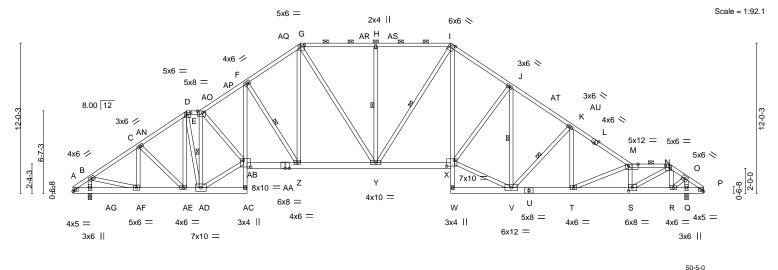
2-0-0 oc purlins (2-3-12 max.): D-E, G-I, M-N.

1 Row at midpt

Wed Now 27

10-1-0 13-11-0 1-0-0 3-10-0

Qty



49-2-8 49-0-12 1-4-4 1-2-8 0-1-12 0-1-12

Plate Offsets (X,Y)--[D:0-3-12,0-2-0], [E:0-5-4,0-1-12], [G:0-3-8,0-1-12], [I:0-3-8,0-2-8], [L:0-3-0,Edge], [M:0-9-4,0-1-12], [N:0-4-0,0-2-0], [S:0-3-8,0-3-0], [X:0-7-8,0-5-4],

TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.94 BC 0.92 WB 0.90	DEFL. in Vert(LL) -0.39 Vert(CT) -0.61 Horz(CT) 0.28	(loc) X X-Y Q	l/defl >999 >933 n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 430 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

G-I,I-L: 2x4 SP 1650F 1.5E, L-M: 2x4 SP 2400F 2.0E 2x6 SP No.1 *Except*

BOT CHORD A-AC: 2x6 SP 2400F 2.0E, F-AC,I-W: 2x4 SP No.3

2x4 SP No.3 *Except* **WEBS**

B-AF, AB-AD, V-X: 2x4 SP No.2, N-S: 2x4 SP 1650F 1.5E

REACTIONS. AG=0-3-8, Q=0-3-8 (size)

Max Horz AG=-287(LC 8)

Max Uplift AG=-186(LC 12), Q=-244(LC 13) Max Grav AG=3031(LC 40), Q=2839(LC 40)

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

TOP CHORD A-B=-379/17, B-C=-3343/315, C-D=-3560/402, D-E=-3068/388, E-F=-4625/518,

F-G=-3650/502, G-H=-3061/481, H-I=-3061/481, I-J=-3963/514, J-K=-3980/468,

K-M=-4853/470, M-N=-5386/512, N-O=-2061/218

BOT CHORD A-AG=-9/348, AF-AG=-266/496, AE-AF=-281/2667, AD-AE=-213/2835, F-AB=-130/1388,

Z-AB=-210/3822, Y-Z=-119/2864, X-Y=-98/3113, I-X=-145/1790, T-V=-278/3961,

S-T=-436/5208, R-S=-146/1753

WEBS B-AG=-2597/278, B-AF=-191/2402, C-AF=-789/121, C-AE=-57/374, D-AD=-114/1287,

E-AD=-3358/293, AB-AD=-243/3427, E-AB=-42/1198, F-Z=-1714/287, G-Z=-162/1270,

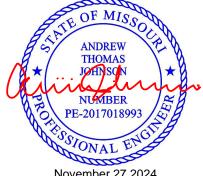
G-Y=-186/701. H-Y=-873/190. I-Y=-250/359. V-X=-188/3457. J-X=-200/458. J-V=-631/110, K-V=-1163/211, K-T=-23/683, M-T=-1346/193, M-S=-2424/267,

N-S=-367/4289, N-R=-1265/139, O-R=-189/1982, O-Q=-2424/255

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 5-2-10, Exterior(2R) 5-2-10 to 9-1-0, Exterior(2E) 9-1-0 to 10-1-0, Interior(1) 10-1-0 to 13-2-0, Exterior(2R) 13-2-0 to 23-3-0, Interior(1) 23-3-0 to 25-2-0, Exterior(2R) 25-2-0 to 35-0-8, Interior(1) 35-0-8 to 44-8-8, Exterior(2R) 44-8-8 to 47-8-8, Exterior(2E) 47-8-8 to 50-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.

க்கிர்கள் மாய் 2 epresentation does not depict the size or the orientation of the purlin along the top and/or bottom chord



November 27,2024





RELEASE FOR CONSTRUCTION

GENE BOSLEY RES. / ROOF Job Truss Truss Type Qty AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 Roof Special Girder 242042 06 LEE'S SUMMIT. MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477, Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-07 89-15-2024 Raps 20 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Yfyf5YQGUiUMOi8p wDrT3PzCH_w08G g57 g59dy 22 w2

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb up at 47-8-8 on top chord, and 65 lb up at 47-8-8 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: A-D=-70, D-E=-70, E-G=-70, G-I=-70, I-M=-70, M-N=-70, N-P=-70, AC-AH=-20, X-AB=-20, W-AK=-20

Concentrated Loads (lb)

Vert: N=29(B) R=31(B)



47-5-0

46-2-8 0-1-12

Scale = 1:84.3

Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 242042 07 Roof Special LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-0rV1IuRuF0cD0s ?TwMicc\VIX6O

13-11-0 12-1-0 16-2-8 1-0-0 1-10-0 2-3-8

5x8 = 4x5 = 10x12 =2x4 || G Н AM AN AQ 5x8 = 4x6 // 6x8 = D 3x6 > 8.00 12 4x6 <> Κ 3x6 // C AQ AR 4x6 / 4x6 < М U W V 9-9-0 4x10 =5x8 = Q AC AB AA Z S R 0 4x6 = 3x4 || 7x10 = 3x6 || 5x12 = 4x6 = 3x4 || 4x12 = 4x5 = 10x12 || 6x10 = 3x6 II 4x5 =

0-1-12 1-2-8 Plate Offsets (X,Y)--[D:0-5-12,0-2-0], [E:0-6-0,0-1-12], [G:0-5-8,0-1-12], [J:0-9-8,0-1-12], [L:0-3-0,Edge], [P:0-1-12,0-2-0], [T:0-8-0,0-5-8], [X:0-7-12,0-7-0], [Z:0-2-8,0-2-0],

TCLL 25.0 (Roof Snow=25.0) 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 0.94 BC 0.88 WB 1.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.38 T-U >999 240 MT20 244/190 Vert(CT) -0.60 T-U >889 180 Horz(CT) 0.42 O n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Weight: 412 lb FT = 20%	

LUMBER-**BRACING-**TOP CHORD

13-11-0

12-1-0 16-2-8 1-0-0 1-10-0 2-3-8

2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except

G-J: 2x4 SP 2400F 2.0E, J-L,L-N: 2x4 SP 1650F 1.5E 2-0-0 oc purlins (3-2-7 max.): D-E, G-J.

2x6 SP No.1 *Except* **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: F-Y: 2x4 SP No.2, I-S: 2x4 SP No.3 6-0-0 oc bracing: X-Y,S-T.

WEBS 2x4 SP No.3 *Except* 1 Row at midpt

E-Z,X-Z,E-X,R-T,J-T: 2x4 SP No.2 WFBS F-W, H-U, I-U, K-R 1 Row at midpt E-Z. J-R

2 Rows at 1/3 pts REACTIONS. AC=0-3-8, O=0-3-8 (size) Max Horz AC=-253(LC 8)

Max Grav AC=2689(LC 36), O=2533(LC 36)

Max Uplift AC=-167(LC 12), O=-155(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD A-B=-314/6, B-C=-3080/317, C-D=-2965/393, D-E=-2457/381, E-F=-3841/495,

F-G=-3442/483, G-H=-3407/452, H-I=-3407/452, I-J=-3102/429, J-K=-2739/404,

K-M=-3192/331, M-N=-445/0

BOT CHORD A-AC=-16/343, AB-AC=-245/469, AA-AB=-232/2423, Z-AA=-195/2311, F-X=-178/1451,

W-X=-265/3279, U-W=-216/2861, T-U=-108/3129, I-T=-959/287, P-R=-162/2506,

O-P=-58/547, N-O=-58/547

WEBS B-AC=-2420/295, B-AB=-176/2127, C-AB=-472/110, C-AA=-250/257, D-Z=-79/1163,

E-Z=-4433/292, X-Z=-336/4094, E-X=-205/2814, F-W=-1648/250, G-W=-160/1254, G-U=-205/847. H-U=-1004/213. I-U=-155/436. R-T=-85/3361. J-T=-293/3748.

J-R=-2292/203, K-R=-614/226, K-P=-264/114, M-P=-138/1981, M-O=-2375/354

NOTES-

Job

Heartland Truss, Inc,

1-4-4

1-2-8

Plattsburg, MO - 64477,

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-8-14, Interior(1) 4-8-14 to 6-2-10, Exterior(2R) 6-2-10 to 11-1-0, Exterior(2E) 11-1-0 to 12-1-0, Exterior(2R) 12-1-0 to 20-11-6, Interior(1) 20-11-6 to 27-5-10, Exterior(2R) 27-5-10 to 36-11-6, Interior(1) 36-11-6 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AC=167, O=155.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024

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



RELEASE FOR CONSTRUCTION

GENE BOSLEY RES. / ROOF

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

DEVELOPMENT SERVICES

LEF'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477, S.730 s Oct 31 2024 MiTek Industries,

Truss Type

Roof Special

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-07 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-U23PWESW0KI4d IC1etx8g 2YF0

Wed Nov 27-97:89-17-2024-Rags 17-2014-Rags 1

1-4-4 7-3-6 13-2-8 13-11-0 20-9-12 27-8-8 28-8-8 32-6-0 33-2-8 38-6-12 43-11-0 18-8-12 1-0-0 3-9-8 08-8 5-4-4 5-4-4 2-1-12 1-4-4 5-11-2 5-11-2 0-8-8 6-10-12 1-0-0 3-9-8 08-8 5-4-4 5-4-4 2-1-12 1-4-8 1-1-12

Qty

Scale = 1:94.1

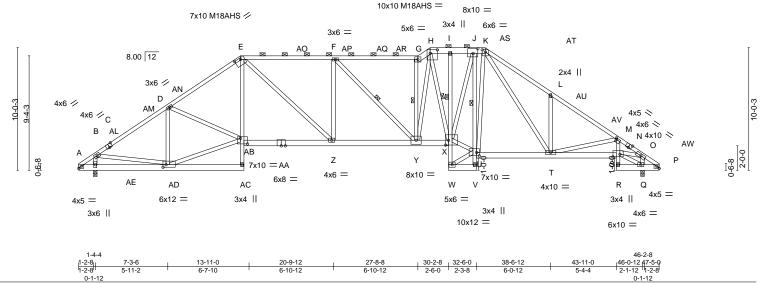


Plate Offsets (X,Y)-- [C:0-3-0,Edge], [E:0-6-0,0-1-8], [H:0-7-0,0-3-8], [J:0-4-12,0-4-8], [K:0-3-0,0-2-3], [M:0-0-12,0-1-8], [N:0-3-0,Edge], [S:0-6-12,0-2-8], [U:0-2-12,0-3-4], [X:0-3-0,0-4-12], [AB:0-7-0,0-5-8], [AD:0-3-0,0-2-8]

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.91 BC 0.92 WB 0.99	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.38 Y-Z -0.60 Y-Z 0.33 Q	l/defl >999 >893 n/a	L/d 240 180 n/a	MT20 24 M18AHS 18	RIP 14/190 36/179
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 408 lb	FT = 20%

LUMBER- BRACING-

2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except C-E: 2x4 SP 1650F 1.5E, E-G: 2x4 SP 2850F 2.3E 2-0-0 oc purlins (2-2-0 max.): E-G, H-K.

2-0-0 oc purlins (2-2-0 max.): E-G, H-K.
CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

G-H,H-K: 2x6 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-BOT CHORD 2x6 SP No.1 *Except* BOT CHORD CHORD CHORD CHORD Rigid ceiling directly applied or 10-0-6-0-0 oc bracing: W-X,V-W,U-V,R-S

E-AC,I-W,J-V: 2x4 SP No.3, M-R: 2x4 SP No.2 1 Row at midpt I-X, J-U

WEBS 2x4 SP No.3 *Except* WEBS 1 Row at midpt G-Y, F-Y, H-X H-Y,U-X,J-X,O-S: 2x4 SP No.2

REACTIONS. (size) AE=0-3-8, Q=0-3-8

(size) AE=0-3-8, Q=0-3-8 Max Horz AE=-233(LC 8)

Max Uplift AE=-136(LC 12), Q=-146(LC 13) Max Grav AE=2500(LC 36), Q=2519(LC 36)

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

TOP CHORD A-B=-370/0, B-D=-3055/313, D-E=-3876/416, E-F=-4164/455, F-G=-3932/442,

G-H=-4343/505, H-I=-3335/419, I-J=-3327/418, J-K=-2601/383, K-L=-3637/516,

L-M=-3613/364, M-O=-4564/365

BOT CHORD

A-AE=-29/455, AD-AE=-224/548, E-AB=-51/965, Z-AB=-271/3215, Y-Z=-279/4163,
X-Y=-145/3601, J-U=-1797/174, T-U=-80/2576, S-T=-294/4046, M-S=0/454, Q-R=-26/274
WEBS

B-AE=-2343/315, B-AD=-150/2048, D-AD=-1150/172, F-Z=-841/248, E-Z=-238/1290.

B-AE=-2343/315, B-AD=-150/2048, D-AD=-1150/172, F-Z=-841/248, E-Z=-238/1290, G-Y=-2143/272, F-Y=-332/153, H-Y=-217/2507, H-X=-1249/157, U-W=0/273, U-X=-90/2887,

J-X=-226/2629, L-T=-741/260, M-T=-1220/189, O-Q=-2111/190, O-S=-276/3602,

AB-AD=-229/2401, D-AB=-76/971, K-T=-251/1152, K-U=-103/696

NOTES-

TOP CHORD

Job

242042

Truss

08

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-8-14, Interior(1) 4-8-14 to 8-5-10, Exterior(2R) 8-5-10 to 17-11-6, Interior(1) 17-11-6 to 27-8-8, Exterior(2R) 27-8-8 to 37-11-6, Interior(1) 37-11-6 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) AE=136, Q=146.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



November 27,2024





GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

09

Truss Type

Roof Special

Job

242042

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 19 20 10:mrcY1X_2FQFIXm9hhpx4TmyPVI_-QQBAwvUmYx?otJs a93vPEF3xTbQe 3nFb5 mftayl 27

Job Reference (optional)

Qty

26-8-8 1-0-0

Scale = 1:86.0

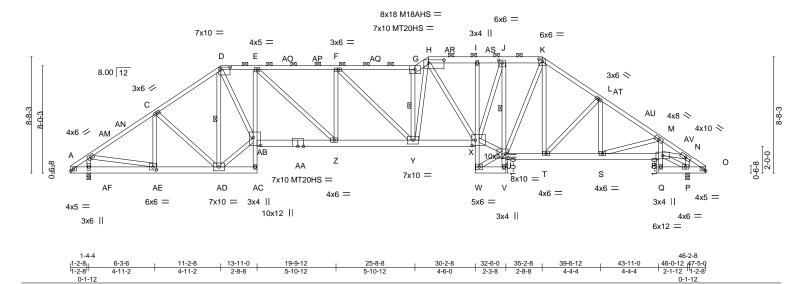


Plate Offsets (X,Y)--[D:0-8-4,0-2-4], [H:1-2-0,0-2-12], [J:0-3-0,0-2-8], [K:0-3-0,0-2-3], [U:0-2-0,0-4-0], [X:0-3-0,0-4-12], [AB:0-7-0,0-6-12], [AE:0-3-0,0-2-12]

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.74 0.97 0.98	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.54 -0.80 0.44	(loc) Y-Z Y-Z P	I/defl >996 >668 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS M18AHS Weight: 402 lb	MT20 MT20HS M18AHS	GRIP 244/190 187/143 186/179 ET = 20%
BCDI 10.0	Code IRC2018/TF	PI2014	Matri	x-MS						Weight: 402 lb	Weight: 402 lb	FT = 20%

BOT CHORD

WFBS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP No.2 *Except*

D-G: 2x4 SP 2400F 2.0E, G-H,H-K: 2x6 SP No.1 2x6 SP No.1 *Except*

BOT CHORD E-AC,M-Q: 2x4 SP No.3, I-W,J-V: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

AB-AD,H-Y,U-X,J-X,N-R: 2x4 SP No.2, D-AB: 2x4 SP 1650F 1.5E

REACTIONS. (size) AF=0-3-8, P=0-3-8 Max Horz AF=204(LC 9)

Max Uplift AF=-271(LC 12), P=-126(LC 13) Max Grav AF=2394(LC 36), P=2453(LC 36)

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

TOP CHORD A-B=-346/20, B-C=-3000/344, C-D=-3250/405, D-E=-4551/516, E-F=-5347/520,

F-G=-5384/526, G-H=-6065/608, H-I=-4380/478, I-J=-4365/478, J-K=-3513/432,

K-L=-3560/427, L-M=-3738/393, M-N=-4346/393

BOT CHORD A-AF=-31/307, AE-AF=-191/396, AD-AE=-313/2455, E-AB=-1281/263, Z-AB=-363/4576,

Y-Z=-364/5347, X-Y=-244/4891, J-U=-3049/201, T-U=-124/2922, S-T=-204/3089,

R-S=-300/3731, M-R=0/482

WEBS B-AF=-2151/336, B-AE=-171/2204, C-AE=-504/109, C-AD=-309/268, D-AD=-2234/147,

AB-AD=-279/3393, D-AB=-305/4253, F-Z=-917/204, E-Z=-186/1067, G-Y=-2971/324, F-Y=-120/429, H-Y=-336/3146, H-X=-1013/164, U-W=-18/283, U-X=-176/3821, J-X=-165/2761, K-T=-70/549, K-U=-123/1610, L-T=-704/162, M-S=-965/133,

N-P=-2051/210, N-R=-293/3399

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-8-14, Interior(1) 4-8-14 to 6-3-6, Exterior(2R) 6-3-6 to 15-11-6, Interior(1) 15-11-6 to 25-8-8, Exterior(2R) 25-8-8 to 39-11-6, Interior(1) 39-11-6 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



November 27,2024

MARNING - 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

Structural wood sheathing directly applied or 2-6-5 oc purlins, except

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

J-U

D-AD, G-Y

2-0-0 oc purlins (2-8-0 max.): D-G, H-K.

2-2-0 oc bracing: AB-AC,Q-R

1 Row at midpt

1 Row at midpt

6-0-0 oc bracing: W-X,V-W,U-V.

Chesterfield MO 63017 314.434.1200 / MiTek-US.com

GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

10

Truss Type

Roof Special

4-8-8

18-9-12 4-10-12

23-8-8 4-10-12

Job

242042

Qty

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 88-20 2024 Ric ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-udlY8FUPJF7fUT1 imQemS 222 dFtX PFWDgrly

Structural wood sheathing directly applied, except

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

B-AC, C-AB, F-V, K-Q

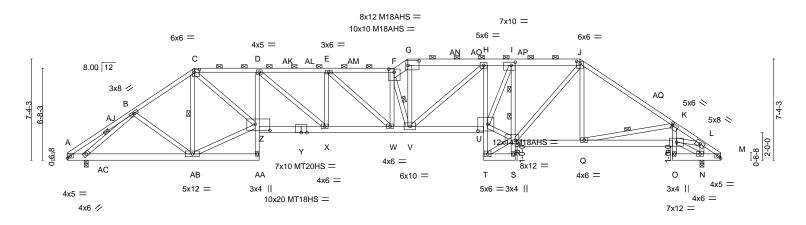
2-0-0 oc purlins (2-2-0 max.): C-F, G-J.

2 Rows at 1/3 pts

1 Row at midpt

Job Reference (optional)

Scale = 1:83.6



1-2-8	9-2-8	13-11-0	18-9-12	23-8-8	24-8-₿	30-2-8	32-6-0	37-2-8	43-11-0	46-0-12 47-5-0
1-2-8	8-0-0	4-8-8	4-10-12	4-10-12	1-0-0	5-6-0	2-3-8	4-8-8	6-8-8	2-1-12 11-2-8
										0-1-12

Plate Offsets (X,Y)	[C:0-4-4,0-2-4], [F:0-4-12,0-2-12], [G:0-9-	12,0-4-0], [I:0-3-8,0-2-12]], [J:0-3-0,0-2-3], [K:	0-0-12,0-2-0]	, [R:0-3-4,0-3-4], [U:	:0-8-8,0-6-0], [Z:1-0-12,0-	-5-8]
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 1.00 BC 0.94 WB 0.92 Matrix-MS	Vert(CT) -	in (loc) -0.71 W-X -1.03 W-X 0.53 N	l/defl L/d >757 240 >522 180 n/a n/a	PLATES MT20 MT20HS M18AHS WFeightts372 lb	GRIP 244/190 187/143 186/179 244/19/20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

BOT CHORD

WFBS

C-F: 2x4 SP 2400F 2.0E, F-G: 2x8 SP 2400F 2.0E, G-J: 2x6 SP No.1

J-M: 2x4 SP 1650F 1.5E 2x6 SP No.1 *Except*

D-AA: 2x4 SP No.3, Y-Z,U-Y: 2x6 SP 2400F 2.0E

H-T,I-S,K-O: 2x4 SP No.2

2x4 SP No.3 *Except*

Z-AB,G-V,L-P: 2x4 SP No.2, C-Z,R-U,I-U: 2x4 SP 1650F 1.5E

REACTIONS. (size) N=0-3-8, AC=0-3-8

Max Horz AC=170(LC 9)

Max Uplift N=-134(LC 8), AC=-258(LC 12) Max Grav N=2525(LC 35), AC=2559(LC 35)

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

TOP CHORD A-B=-539/47, B-C=-3549/371, C-D=-6523/588, D-E=-7277/600, E-F=-7523/629,

F-G=-7499/639, G-H=-6780/588, H-I=-6361/569, I-J=-4671/471, J-K=-4052/392,

K-L=-4752/417, L-M=-270/24

BOT CHORD A-AC=0/400, AB-AC=-325/2633, D-Z=-1260/241, X-Z=-463/6545, W-X=-444/7277,

V-W=-427/7539, U-V=-348/6399, H-U=-618/131, I-R=-4470/302, Q-R=-158/3316,

P-Q=-399/4150, K-P=0/467, N-Q=-46/261

WFBS B-AC=-3017/352, B-AB=-221/357, C-AB=-1529/137, Z-AB=-236/3130, C-Z=-315/4759,

E-X=-931/179, D-X=-152/980, F-W=-520/73, E-W=-58/587, G-V=-196/2930, F-V=-3291/333, H-V=-147/624, R-T=-14/287, R-U=-279/5417, I-U=-247/4209, J-R=-180/2136, J-Q=0/331,

K-Q=-1480/290, L-N=-2156/173, L-P=-342/3730

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10. Exterior(2R) 4-9-10 to 13-9-4. Interior(1) 13-9-4 to 23-8-8. Exterior(2R) 23-8-8 to 29-5-6, Interior(1) 29-5-6 to 32-4-4, Exterior(2R) 32-4-4 to 41-11-6, Interior(1) 41-11-6 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) N=134, AC=258.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Connected codostate dard ANSI/TPI 1.



November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROCF DEVELOPMENT SERVICES 10 242042 Roof Special Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 07 89 20 20 10:mrcY1X_2FQFIXm9hhpx4TmyPVI_-udlY8FUPJF7fUT1 imQemS 228 04 1X P2WD2VF2FQFIX LEE'S SUMMIT. MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

RELEASE FOR CONSTRUCTION

Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 11 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional)

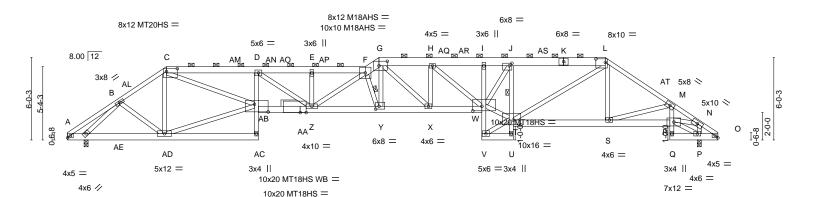
32-6-0 9-9-8

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-q?tlZxWfrsNNknB9qBT6rt nR&pk . 13-11-0

46-2-8

Scale = 1:84.0



21-8-8 3-10-12

1-2-8 6-0-0 6-8-8 3-10-12 3-10-12 1-0-0 7-6-0 2-3-8 6-8-8 4-8-8 2-1-12 11-2-11-2 11-2-8	5-0
0.4.40	-81
0-1-12	
ate Offsets (X,Y) [C:0-9-8,0-2-8], [G:0-7-4,0-4-0], [J:0-2-4,0-2-4], [L:0-8-4,0-3-0], [T:0-6-8,0-4-4], [W:0-8-0,0-4-0], [Y:0-3-0,0-2-8], [AA:0-5-4,0-0-0], [AB:1-0-0,0-6-12]	

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.75	DEFL. in (loc) I/defl L/d Vert(LL) -1.03 Y-Z >521 240	PLATES GRIP MT20 244/190
(Roof Snow=25.0) TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.86 WB 0.98	Vert(CT) -1.03 1-2 >321 240 Vert(CT) -1.47 Y-Z >367 180 Horz(CT) 0.66 P n/a n/a	MT20HS 187/143 MT8AHS 186/179
BCLL 0.0 BCDI 10.0	Code IRC2018/TPI2014	Matrix-MS	11012(01) 0.00 1 11/4 11/4	MVTenigentus380 lb 244711-9020%

LUMBER-BRACING-

TOP CHORD 2x8 SP 2400F 2.0E *Except* TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except

A-C,L-O: 2x4 SP No.2, C-F: 2x6 SP 2400F 2.0E 2-0-0 oc purlins (2-5-6 max.): C-F, G-L. **BOT CHORD** 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

A-AC,U-V,R-T,O-Q: 2x6 SP No.1, AA-AB,W-AA: 2x6 SP 2400F 2.0E 6-0-0 oc bracing: V-W,U-V,T-U,Q-R.

2x4 SP No.3 *Except* 1 Row at midpt J-T AB-AD,L-T,N-R: 2x4 SP No.2, C-AB,T-W: 2x4 SP 2400F 2.0E **WEBS** F-Y 1 Row at midpt

J-W,G-Y,H-X: 2x4 SP 1650F 1.5E

OTHERS 2x6 SP No.2

(size) P=0-3-8, AE=0-3-8 REACTIONS. Max Horz AE=138(LC 9)

Max Uplift P=-181(LC 8), AE=-245(LC 12) Max Grav P=2709(LC 36), AE=2742(LC 36)

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

TOP CHORD A-B=-454/53, B-C=-3712/335, C-D=-10398/757, D-E=-10954/813, E-F=-10954/813,

F-G=-10678/825, G-H=-9586/771, H-I=-8742/722, I-J=-8701/719, J-L=-6517/579, L-M=-4442/369, M-N=-5073/385, N-O=-288/30

A-AE=-2/329, AD-AE=-272/2595, D-AB=-1120/219, Z-AB=-657/10449, Y-Z=-763/11424,

X-Y=-645/9942, W-X=-655/9586, J-T=-4946/448, S-T=-210/3673, R-S=-322/4349,

M-R=0/511, P-Q=-28/294

WFBS B-AE=-3210/293, B-AD=-94/634, C-AD=-1333/169, AB-AD=-221/3080, C-AB=-617/7849,

E-Z=-699/109. D-Z=-80/674. T-V=0/278. T-W=-502/7120. J-W=-281/4356. L-S=0/314. L-T=-303/3427, M-S=-979/177, N-P=-2336/194, N-R=-295/3959, G-Y=-279/4275, H-X=-57/591, H-W=-1132/124, G-X=-678/145, F-Y=-4505/356, F-Z=-744/111

NOTES-

BOT CHORD

Job

Pla

WEBS

242042

Heartland Truss, Inc,

Plattsburg, MO - 64477,

6-8-8

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-8-14, Exterior(2R) 4-8-14 to 11-11-6, Interior(1) 11-11-6 to 21-8-8, Exterior(2R) 21-8-8 to 27-5-6, Interior(1) 27-5-6 to 34-5-10, Exterior(2R) 34-5-10 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) The Fabrication Tolerance at joint AB = 16%
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=181, AE=245.





314.434.1200 / MiTek-US.com

OF MISSO

ANDREW

THOMAS

OHNSO

NUMBER

PE-2017018993

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty GENE BOSLEY RES. / ROCF DEVELOPMENT SERVICES 242042 11 Roof Special LEE'S SUMMIT. MISSOURI

Plattsburg, MO - 64477, Heartland Truss, Inc,

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc.
Wed Nov 27-7789-22-2024 Rags 2
ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_q?tlZxWfrsNNkr B9qBT6rt nRep(H0L/1371/xV) 22 p

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9

LEE'S SUMMIT, MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

12

Job

242042

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-nO_3_dXvNTd4z5LYxcVaxlrkc

Job Reference (optional)

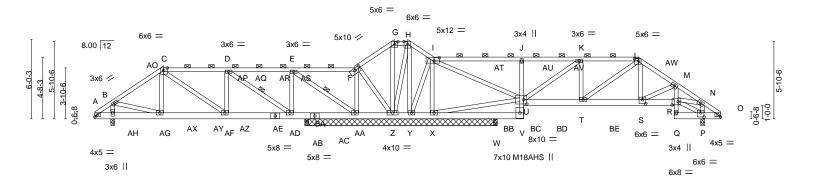
Wed Nov 27

25-8-8 1-0-0 2-0-0

Truss Type

Roof Special Girder

Scale = 1:87.3



Qty

23-8-8 46-2-8 23-2-8 25-8-8 0-6-0 2-0-0 1-2-8 0-1-12 0-6-0

Plate Offsets (X,Y)--[C:0-3-5,Edge], [F:0-5-0,0-2-0], [G:0-3-0,0-2-3], [H:0-3-5,Edge], [I:0-4-12,0-3-0], [L:0-3-12,0-2-0], [P:0-3-0,0-3-12], [R:0-5-8,0-3-0], [S:0-3-0,0-3-12], [U:0-2-12,0-4-0]

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.96 BC 1.00	DEFL. Vert(LL) -0.7 Vert(CT) -0.2		L/d 240 180	PLATES MT20 M18AHS	GRIP 244/190 186/179
TCDL 10.0 BCLL 0.0 BCDI 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.98 Matrix-MS	Horz(CT) 0.	n/a	n/a	Weight: 343 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except

C-F,I-L: 2x4 SP 1650F 1.5E

2x6 SP No.1 *Except* 2-0-0 oc purlins (3-8-14 max.): C-F, G-H, I-L **BOT CHORD**

J-V: 2x4 SP No.2, M-Q: 2x4 SP No.3 Rigid ceiling directly applied. **WEBS** 2x4 SP No.3 *Except* **WEBS** 1 Row at midpt D-AD. E-AA

REACTIONS. All bearings 0-3-8 except (jt=length) AA=14-7-0, Z=14-7-0, Y=14-7-0, X=14-7-0.

Max Horz AH=-134(LC 68) (lb) -

I-U,N-R: 2x4 SP No.2

Max Uplift All uplift 100 lb or less at joint(s) except AH=-373(LC 12), AA=-101(LC

12), Z=-230(LC 9), Y=-195(LC 13), X=-227(LC 13), P=-488(LC 13), AC=-211(LC

12). W=-223(LC 13)

All reactions 250 lb or less at joint(s) except AH=1578(LC 41), AA=513(LC

18), Z=1276(LC 40), Y=745(LC 40), X=1201(LC 40), P=1971(LC 41), AC=1091(LC

40), W=1157(LC 40)

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

TOP CHORD B-C=-1738/458, C-D=-1880/485, D-E=-420/139, E-F=-298/1410, F-G=-370/1730,

G-H=-273/1411, H-I=-322/1624, I-J=-1492/387, J-K=-1459/380, K-L=-2806/718,

L-M=-2945/805, M-N=-3349/874

BOT CHORD AF-AG=-374/1423, AD-AF=-444/1877, AC-AD=-84/420, AA-AC=-84/420, Z-AA=-1380/388,

Y-Z=-1400/435, X-Y=-1559/459, W-X=-588/148, V-W=-588/148, U-V=-532/124,

J-U=-787/167, T-U=-640/2806, S-T=-547/2396, R-S=-684/2809, M-R=-54/392

B-AH=-1480/410, B-AG=-319/1370, C-AG=-199/401, C-AF=-168/565, D-AF=-191/613,

D-AD=-1892/441, E-AD=-169/665, E-AA=-2132/479, F-AA=-198/760, G-Z=-1037/237,

H-Y=-799/167, I-Y=-98/386, I-X=-1477/357, U-X=-931/302, I-U=-750/3351 K-U=-1672/419, K-T=-264/722, L-T=-117/515, L-S=-323/1090, M-S=-645/162,

N-R=-638/2608, N-P=-1641/439

NOTES-

WEBS

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-8-14, Exterior(2R) 4-8-14 to 9-11-15, Interior(1) 9-11-15 to 19-8-8, Exterior(2R) 19-8-8 to 23-8-8, Exterior(2E) 23-8-8 to 25-8-8, Interior(1) 25-8-8 to 36-5-10, Exterior(2R) 36-5-10 to 42-8-2, Exterior(2E) 42-8-2 to 47-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated

Contain plates are dec MT20 unless otherwise indicated.



November 27,2024

MARNING - 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 242042 12 Roof Special Girder

Heartland Truss, Inc, Plattsburg, MO - 64477,

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27-77.89-24-2024 Fage 2 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-nO_3_dXvNTd4z5LYxcV4xipdc /il(1) 2/VyQzyF2 p

LEF'S SUMMIT, MISSOURI

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint AH, 101 lb uplift at joint AA, 230 lb uplift at joint Z, 195 lb uplift at joint Y, 227 lb uplift at joint X, 488 lb uplift at joint P, 211 lb uplift at joint AC and 223 lb uplift at joint W.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 495 lb down and 197 lb up at 5-2-8, 200 lb down and 83 lb up at 7-1-12, 200 lb down and 83 lb up at 9-1-12, 200 lb down and 83 lb up at 11-1-12, 200 lb down and 83 lb up at 13-1-12, 200 lb down and 83 lb up at 15-1-12, 285 lb down and 99 lb up at 31-1-12, 285 lb down and 100 lb up at 33-1-12, 285 lb down and 100 lb up at 33-1-12, 285 lb down and 100 lb up at 37-1-12, and 285 lb down and 100 lb up at 37-1-12, and 285 lb down and 100 lb up at 31-1-12, 285 lb down and 100 lb up at 31-1-12, and 285 lb down and 31-1-12, 100 lb up at 39-1-12, and 764 lb down and 317 lb up at 41-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-70, C-F=-70, F-G=-70, G-H=-70, H-I=-70, I-L=-70, L-O=-70, V-AI=-20, R-U=-20, Q-AL=-20

Concentrated Loads (lb)

Vert: AG=-495(B) AD=-200(B) T=-285(B) S=-764(B) AX=-200(B) AY=-200(B) AZ=-200(B) BA=-200(B) BB=-285(B) BC=-285(B) BD=-285(B) BE=-285(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 242042 13 Diagonal Hip Girder

Job Reference (optional)

D

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

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

3x4 =

except end verticals.

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 37 8224 2024 Ram ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_nO_3_dXvNTd4z5_YxcVaxiisDevy1 P_AdyQzy 22

LEE'S SUMMIT. MISSOURI

Scale = 1:24.3

7-2-14 3-6-10 3-8-4

2x4 || C 5.66 12 3x6 / В 8-9-0

> 1-7-12 5-4-10

> > BRACING-

TOP CHORD

BOT CHORD

ĸ

LOADING (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0			CSI.		I	in	(/				
(Roof Snow=25.0)	Plate Grip DOL	1.15	10	0.42	Vert(LL)	-0.03	D-E	>999	240	MT20	244/190
(Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	D-E	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	D	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2		Matrix		1.0.2(0.)	0.00	_		.,,	Weight: 38 lb	FT = 20%
BCDL 10.0	Code INC2016/1F12	014	iviati	X-IVIF						Weight. 36 lb	FT = 20 /0

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

Heartland Truss, Inc,

Plattsburg, MO - 64477,

REACTIONS. (size) D=Mechanical, E=0-4-15

Max Horz E=141(LC 11)

Max Uplift D=-86(LC 9), E=-62(LC 12) Max Grav D=323(LC 18), E=547(LC 18)

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

WEBS B-D=-276/191, B-E=-535/253

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 7-1-2 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=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3x4 =

2x4 /

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint D and 62 lb uplift at joint E.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 88 lb up at 4-6-0, and 111 lb down and 88 lb up at 4-6-0 on top chord, and 12 lb down and 19 lb up at 4-6-0, and 12 lb down and 19 lb up at 4-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-C=-70, D-F=-20 Concentrated Loads (lb)

Vert: K=5(F=2, B=2)



November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

Scale = 1:26.8

Job Reference (optional)

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

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

except end verticals.

8.730 s Oct 31 2024 MITek Industries, Inc. Wed No. 27 97 89 5 9024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-FaYRBzYX8nlxbEvk_J0pTVN 10KkJJ 18 12 WF F2T

8-7-14 1-10-4 2-11-11 3-9-15

Qty

2x4 || D 5.66 12 3x4 = С 3x4 🖊 4x12 = 09-0-0-6-8 3x4 =

4-9-14 1-7-12 0-2-8 2-11-11 3-9-15

G 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.41 BC 0.73 WB 0.31	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.05 E-F -0.07 E-F 0.01 E	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MP	` ′				Weight: 50 lb	FT = 20%
BCDL 10.0	Code IRC2016/1712014	IVIAUIX-IVIP					Weight. 50 lb	F1 = 20%

LUMBER-

Job

242042

Heartland Truss, Inc,

2x4 SP No.2

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

C-G: 2x4 SP No.3 WEBS 2x4 SP No.3

REACTIONS. (size) H=0-4-15, E=Mechanical

Max Horz H=137(LC 9)

Truss

Plattsburg, MO - 64477,

14

Truss Type

Diagonal Hip Girder

Max Uplift H=-147(LC 12), E=-189(LC 12) Max Grav H=633(LC 18), E=508(LC 18)

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

TOP CHORD B-C=-774/371 **BOT CHORD** E-F=-366/690

B-H=-527/287, B-F=-324/740, C-E=-730/456 WFBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 8-6-2 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

3x4 =

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint H and 189 lb uplift at joint E.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 76 lb up at 4-0-6, and 104 lb down and 76 lb up at 4-0-6 on top chord, and 55 lb up at 4-0-6, 55 lb up at 4-0-6, and 99 lb down and 78 lb up at 5-11-0, and 99 lb down and 78 lb up at 5-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-D=-70, G-I=-20, E-F=-20

Concentrated Loads (lb)

Vert: N=59(F=29, B=29) O=-197(F=-99, B=-99)



November 27,2024

MARNING - 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



RELEASE FOR CONSTRUCTION Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

Ply DEVELOPMENT SERVICE92

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc.

Wed Nov 2**7** 97;**8**25 10nTVN5**V**0<u>X8</u>U0[78 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-FaYRBzYX8nlxbEvkVI0pTVN5V0X8U

Structural wood sheathing directly applied or 4-1-7 oc purlins,

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

4-1-7

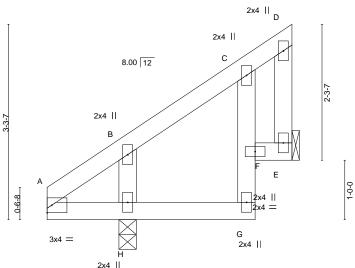
2



4-1-7 0-7-7

except end verticals.

Scale = 1:19.4



			· · · · · · · · · · · · · · · · · · ·	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.01 G >999 240 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.01 G >999 180	
BCLL 0.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-MP	Horz(CT) 0.01 E n/a n/a Weight: 21 lb FT = 20%	

3-6-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

242042

Heartland Truss, Inc,

2x4 SP No.2

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

C-G: 2x4 SP No.3 WEBS 2x4 SP No.3

REACTIONS. (size) E=Mechanical, H=0-3-8

Max Horz H=88(LC 9)

Truss

Plattsburg, MO - 64477,

15

Truss Type

Jack-Closed

Max Uplift E=-55(LC 9), H=-10(LC 12) Max Grav E=127(LC 18), H=399(LC 18)

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

WEBS B-H=-316/151

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

1-2-8

0-1-12

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint E and 10 lb uplift at joint H.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 16 Jack-Open 3 Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICE93

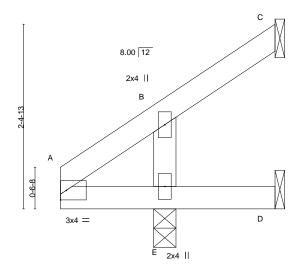
LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 26 2024 Rago v ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-jm6pOJZ9v5toCOL w31X20j vGFQyV0T5Hzdhx2gyF2T

2-9-7

Scale = 1:15.0



		1-2-8	0-1-12 1-5-3	•	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. in Vert(LL) 0.00	n (loc) I/defl L/d D E >999 240	PLATES GRIP MT20 244/190
(Roof Snow=25.0) TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.00	D-E >999 180	W120 244/130
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.01	C n/a n/a	W : 1 / 4 / II

BRACING-

TOP CHORD

BOT CHORD

Matrix-MP

2-9-7

BCDL LUMBER-

REACTIONS.

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

10.0

2x4 SP No.3

(size) C=Mechanical, D=Mechanical, E=0-3-8

Code IRC2018/TPI2014

Max Horz E=71(LC 12)

Max Uplift C=-43(LC 12), D=-27(LC 18)

Max Grav C=29(LC 21), D=11(LC 10), E=339(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint C and 27 lb uplift at joint D.
- 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.



Weight: 11 lb

Structural wood sheathing directly applied or 2-9-7 oc purlins.

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

FT = 20%



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 17 Jack-Open 2 Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

Structural wood sheathing directly applied or 3-1-7 oc purlins.

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

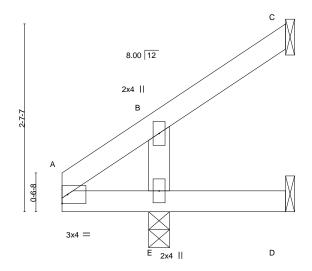
LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 26 2024 Rago 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-jm6pOJZ9v5toCOU w31X20j vGvQjZ 070 Hdhx2gyF37

3-1-7

Scale: 3/4"=1



1-2-8	1-4-4	3-1-7	1
 1-2-8	0-1-12	1-9-3	'

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0						111	(/			1		
(Roof Snow=25.0)	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	D-E	>999	240	MT20	244/190	
(Lumber DOL	1.15	BC	0.12	Vert(CT)	0.00	D-E	>999	180			
TCDL 10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.01			n/a			
BCLL 0.0					H012(C1)	-0.01	C	n/a	II/a			
BCDL 10.0	Code IRC2018/TI	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%	
BCDL 10.0												

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) C=Mechanical, D=Mechanical, E=0-3-8 Max Horz E=79(LC 12)

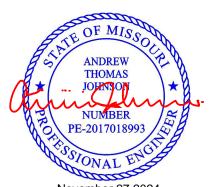
Max Uplift C=-49(LC 12), D=-13(LC 12)

Max Grav C=53(LC 18), D=17(LC 10), E=349(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint C and 13 lb uplift at joint D.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 18 Jack-Closed 6

Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 89-26-2024 Rags 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-jm6pOJZ9v5toCOUw31X20jvDdc7rUS0Fdhxx2gVF2T

Structural wood sheathing directly applied or 5-2-8 oc purlins,

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

except end verticals.

LEE'S SUMMIT. MISSOURI

Scale = 1:24.6

2x4 | С 8.00 12 2x4 || В 8-9-0 D 3x4 = 2x4 || 2x4 ||

1-2-6 0-1-12 3-10-4								
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.36 BC 0.22 WB 0.09	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 D-E >999 240 Vert(CT) -0.02 D-E >999 180 Horz(CT) 0.00 D n/a n/a	PLATES GRIP MT20 244/190				
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.00 D n/a n/a	Weight: 24 lb FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

> D=Mechanical, E=0-3-8 (size) Max Horz E=134(LC 11)

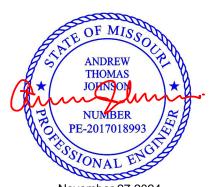
Max Uplift D=-63(LC 9), E=-17(LC 12) Max Grav D=220(LC 18), E=474(LC 18)

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

WEBS B-E=-449/228

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint D and 17 lb uplift at joint E.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

5

Heartland Truss, Inc, Plattsburg, MO - 64477,

19

242042

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-BzgBceaogO?fqYB7dk2HYVTPYqf

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

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

except end verticals.

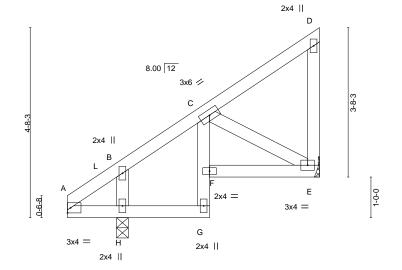
6-0-0 oc bracing: F-G.

Wed Nov 27-97:88-2 B7dk2HYVTD/gortvv

LEE'S SUMMIT. MISSOURI

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

Scale = 1:28.4



	1	1-2-8 1 ₁ 4 ₁ 4	3-6-0	₁ 6-2-8	
		1-2-8 0-1-12	2-1-12	2-8-8	
LOADING (pef)					

Jack-Closed

LOADING (psi)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0				(/				
(Roof Snow=25.0)	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.02	F	>999	240	MT20	244/190
(Lumber DOL 1.15	BC 0.57	Vert(CT) -0.03	F	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.02					
BCLL 0.0	1.00		H012(C1) 0.02		n/a	n/a		
	Code IRC2018/TPI2014	Matrix-MP					Weight: 34 lb	FT = 20%
BCDL 10.0								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

C-G: 2x4 SP No.3 WEBS 2x4 SP No.3

(size) H=0-3-8, E=Mechanical

Max Horz H=141(LC 9)

Max Uplift H=-10(LC 12), E=-80(LC 12) Max Grav H=478(LC 18), E=305(LC 18)

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

TOP CHORD B-C=-257/49 **BOT CHORD** E-F=-113/261

WFBS B-H=-321/114, C-E=-252/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint H and 80 lb uplift at joint E.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 20 Jack-Closed

Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICEST LEE'S SUMMIT, MISSOURI

Scale = 1:29.3

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 27 202 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-BzgBceaogO?fq 37dk2H7wTargbayVMssI

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

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

except end verticals.

6-2-8

2x4 || С 8.00 12 2x4 || 9-9-0 D 3x4 =2x4 || 2x4 ||

1	1-2-8 1 ₇ 4 ₇ 4	6-2-8	1
Г	1-2-8 0-1-12	4-10-4	1

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) 0.04 D-E >999	240	MT20	244/190
(Roof Snow=25.0)	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.06 D-E >999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 D n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MP	. (, , , , , , , , , , , , , , , , , ,		Weight: 28 lb	FT = 20%
BCDL 10.0	Code IRC2010/1712014	IVIALITA-IVIF			Weight. 28 ib	FT = 2070

LUMBER-TOP CHORD

REACTIONS.

Heartland Truss, Inc,

2x4 SP No 2

2x4 SP No.2 BOT CHORD WEBS

2x4 SP No.3

D=Mechanical, E=0-3-8 (size)

Plattsburg, MO - 64477,

Max Horz E=160(LC 11)

Max Uplift D=-79(LC 12), E=-12(LC 12) Max Grav D=305(LC 18), E=478(LC 18)

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

WEBS B-E=-540/291

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint D and 12 lb uplift at joint E.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 21 Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97:89

4-0-0

5x6 = Scale = 1:30.4 6x6 = 8.00 12 4-10-6 5x6 > 5x6 / D 1-5-13 N G F 6x6 = 8x10 = 4x8 || 4x8 || 14-7-0 4-0-0 Plate Offsets (X,Y)--[A:0-3-0,0-1-8], [B:0-3-5,Edge], [C:0-3-0,0-2-3], [D:Edge,0-1-12], [E:Edge,0-3-8], [G:0-2-12,0-4-0] LOADING (psf)

LUMBER-

(Roof Snow=25.0)

TCLL

TCDL

BCLL

BCDL

WEBS

2x4 SP 1650F 1.5E *Except* TOP CHORD

B-C: 2x4 SP No.2 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3

25.0

10.0

0.0

BRACING-TOP CHORD

BOT CHORD

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

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

I/defl

>999

>999

n/a

L/d

240

180

n/a

(loc)

F-G

F-G

Ε

-0.06

-0.08

0.01

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-f9EZp_aQQi7WSieJASaW58?RGET

5-3-8

except end verticals, and 2-0-0 oc purlins (3-9-1 max.): B-C. Rigid ceiling directly applied or 10-0-0 oc bracing.

PLATES

Weight: 97 lb

MT20

GRIP

244/190

FT = 20%

REACTIONS. (size) H=0-3-8, E=0-3-8

Max Horz H=-127(LC 8)

Max Uplift H=-405(LC 12), E=-405(LC 13) Max Grav H=1839(LC 32), E=1836(LC 32)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

TOP CHORD A-B=-2199/587, B-C=-1672/537, C-D=-2198/590, A-H=-1786/462, D-E=-1786/457

1.15

1.15

NO

5-3-8 5-3-8

BOT CHORD G-H=-137/268 F-G=-436/1670

WEBS B-G=-220/749, C-F=-237/825, A-G=-415/1581, D-F=-418/1582

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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, Exterior(2R) 3-1-12 to 11-5-4, Exterior(2E) 11-5-4 to 14-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

CSI.

TC

вС

WB

Matrix-MS

0.86

0.49

0.66

- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 405 lb uplift at joint H and 405 lb uplift at
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 812 lb down and 314 lb up at 5-3-8, and 321 lb down and 95 lb up at 7-2-12, and 812 lb down and 314 lb up at 9-2-12 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: A-B=-70, B-C=-70, C-D=-70, E-H=-20



November 27,2024







RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty GENE BOSLEY RES. / ROCF DEVELOPMENT SERVICES 21 242042 Hip Girder Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 29 2024 Raps 30 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-f9EZp_aQQi7WSieJ \SaW58?RGETFEC 2029 602 12 12

Heartland Truss, Inc,

Plattsburg, MO - 64477,

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: G=-812(B) F=-812(B) N=-321(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 242042 22 Diagonal Hip Girder 2 LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc.

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-f9EZp_aQQi7WSie_ASaW58PZaEU 9-4-6 1-10-4 3-10-13

Scale = 1:29.8

Wed Nov 27-97:88

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

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

except end verticals.

2x4 || D N 5.66 12 M 3x4 / С 3x4 / В 0-6-8 0 3x4 = 3x4

	1-7-12	0-2-8	3-7-5	+		3-10	-			
LOADING (psf) SPACING- TCLL 25.0 (Roof Snow=25.0) Plate Grip DOL TCDL 10.0 Lumber DOL BCLL 0.0 Rep Stress Incr BCDL 10.0 Code IRC2018/	2-0-0 1.15 1.15 ΝΟ ΓΡΙ2014	CSI. TC BC WB Matri	0.33 0.40 0.20 ix-MS	DEFL. Vert(LL) Vert(CT Horz(CT	in -0.02) -0.03 -0.00	(loc) E-F E-F E	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 53 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Heartland Truss, Inc,

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

BOT CHORD WEBS 2x4 SP No.3

> (size) G=0-4-15, E=Mechanical

Plattsburg, MO - 64477,

Max Horz G=162(LC 11)

Max Uplift G=-180(LC 12), E=-190(LC 12) Max Grav G=578(LC 18), E=519(LC 18)

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

3x4 =

2x4 || 1-10-4

TOP CHORD B-C=-451/232 **BOT CHORD** F-F=-210/367

WEBS B-G=-568/316, B-F=-148/484, C-E=-440/301

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 9-2-9 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=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint G and 190 lb uplift at joint E.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 100 lb up at 3-9-8, and 82 lb down and 100 lb up at 3-9-8, and 129 lb down and 122 lb up at 6-7-7 on top chord, and 64 lb up at 3-9-8, 64 lb up at 3-9-8, and 142 lb down and 88 lb up at 6-7-7, and 26 lb down and 22 lb up at 6-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-D=-70, E-H=-20

Concentrated Loads (lb) Vert: L=60(F=30, B=30) M=-49(B) O=66(F=33, B=33) P=-155(F=-142, B=-13)

OF MISSO **ANDREW THOMAS** JOHN SOI NUMBER PE-2017018993 SSIONAL

November 27,2024



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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 23 Jack-Open 2 Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

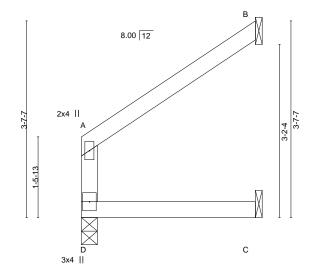
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

LEE'S SUMMIT, MISSOURI

Wed Nov 27-97:89:29 4sDVk95 eLXY at Q W ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-7Loy1Kb2B0FN4sDVk95eLYY

3-2-7

Scale = 1:21.2



LOADING (psf) SPACING-2-0-0 DEFL. CSI (loc) TCLL 25.0Plate Grip DOL 1.15 TC 0.31

ВС

WB

Matrix-MR

0.21

0.00

1.15

YES

I/defl L/d Vert(LL) 0.01 240 C-D >999 Vert(CT) -0.01 C-D >999 180 Horz(CT) -0.03 В n/a n/a **PLATES** GRIP 244/190 MT20

Weight: 12 lb FT = 20%

LUMBER-

TCDL

BCLL

BCDL

(Roof Snow=25.0)

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

10.0

10.0

0.0

2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins,

except end verticals.

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

REACTIONS.

(size) D=0-3-8, B=Mechanical, C=Mechanical

Max Horz D=70(LC 9)

Max Uplift B=-73(LC 12), C=-4(LC 12)

Lumber DOL

Rep Stress Incr

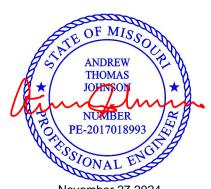
Code IRC2018/TPI2014

Max Grav D=190(LC 18), B=148(LC 18), C=58(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint B and 4 lb uplift at joint C.
- 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.







Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 24 Jack-Open 8 Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

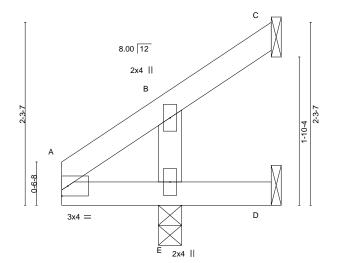
Wed Nov 27-97;89:29-2024-R sDVk95ieLYpPgwACppsKJfBB?? ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-7Loy1Kb2B0FN4sDVk95leLY

Structural wood sheathing directly applied or 2-7-7 oc purlins.

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

2-7-7 2-7-7

Scale = 1:14.4



	1-2-8 1	_I -4-4	2-7-7
Г	1-2-8 0-	1-12	1-3-3

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.13 BC 0.12 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) E D-E C	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) C=Mechanical, D=Mechanical, E=0-3-8

Max Horz E=66(LC 12)

Max Uplift C=-40(LC 12), D=-35(LC 18)

Max Grav C=21(LC 21), D=8(LC 10), E=337(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint C and 35 lb uplift at joint D.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 25 Jack-Closed 3

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

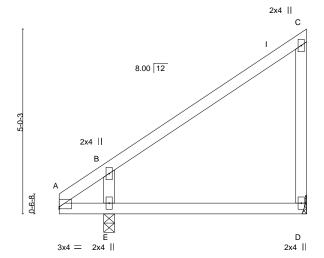
RELEASE FOR CONSTRUCTION

Structural wood sheathing directly applied, except end verticals.

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

6-8-8

Scale = 1:31.2



1-2-8 1-4 ₇ 4	6-8-8	
1-2-8 0-1-12	5-4-4	

Plate Offsets (X,Y) [A	:0-0-0,0-0-10]							
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.82 BC 0.38 WB 0.12 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	0.06 D	oc) I/defl 0-E >999 0-E >709 D n/a	L/d 240 180 n/a	PLATES MT20 Weight: 30 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Heartland Truss, Inc,

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) D=Mechanical, E=0-3-8

Max Horz E=172(LC 11)

Max Uplift D=-75(LC 12), E=-16(LC 12) Max Grav D=341(LC 18), E=495(LC 18)

Plattsburg, MO - 64477,

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

TOP CHORD C-D=-268/81 WEBS B-E=-594/321

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint D and 16 lb uplift at ioint E.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 26 Jack-Closed 2 Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICE93

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT. MISSOURI

Scale = 1:21.0

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Not 27 97 89 30 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-bYMKEgcgyJNE 10oilsc_AZ5x11E9fctVJykBsy 22

4-7-7

2x4 || C 8.00 12 2x4 II В 9-9-0 D 3x4 = 2x4 || 2x4 |

1	1-2-8	1 _T 4 ₇ 4	4-7-7	
Г	1-2-8	0-1-12	3-3-3	l

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.24 0.17 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 0.00	(loc) D-E D-E D	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	
BCLL 0.0 BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 21 lb	FT = 20%	

LUMBER-

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

2x4 SP No.3

REACTIONS. D=Mechanical, E=0-3-8 (size) Max Horz E=119(LC 11)

Max Uplift D=-60(LC 9), E=-15(LC 12) Max Grav D=171(LC 18), E=433(LC 18)

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

WEBS B-E=-379/194

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint D and 15 lb uplift at joint E.
- 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 4-7-7 oc purlins,

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

except end verticals.



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES4

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 30 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-bYMKEgcgyJNEh0oilsc_A25v_LFQe4sby.lykB8y 22

6-6-8 5-9-0 3-0-4 2-8-12

Qty

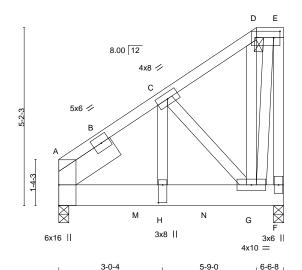
Ply

Scale = 1:33.5 5x10 =

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-E.

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



3-0-4 Plate Offsets (X,Y)-- [A:Edge,0-0-0], [D:0-2-4,0-2-4], [H:0-6-4,0-1-8]

Truss Type

Half Hip Girder

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.33	DEFL. Vert(LL) -0.	in (loc) 03 G-H	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.33 WB 0.78 Matrix-MP	Vert(CT) -0. Horz(CT) 0.	05 G-H 00 F	>999 n/a	180 n/a	Weight: 132 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

242042

Heartland Truss, Inc,

Truss

Plattsburg, MO - 64477,

27

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E 2-0-0

REACTIONS. (size) A=0-3-8, F=0-3-8 Max Horz A=139(LC 11)

Max Uplift A=-405(LC 12), F=-538(LC 9) Max Grav A=5518(LC 29), F=4144(LC 29)

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

TOP CHORD A-C=-3295/364, C-D=-603/146, D-E=-436/149, E-F=-2616/340

BOT CHORD A-H=-285/2640. G-H=-285/2640

WEBS C-H=-335/3754, C-G=-3299/423, E-G=-332/2641

- 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: 2x8 2 rows staggered at 0-4-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-4, Exterior(2R) 3-0-4 to 5-9-0, Exterior(2E) 5-9-0 to 6-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=25.0 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 405 lb uplift at joint A and 538 lb uplift at ioint F.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2666 lb down and 197 lb up at 0-3-11, 2573 lb down and 204 lb up at 2-3-11, and 2520 lb down and 248 lb up at 4-3-11, and 1025 lb down and 298 lb up at 5-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

MARNING - 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 besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, 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/TP11 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.sbcscomponents.com)



OF MISSO **ANDREW THOMAS** JOHNSON NUMBER WITS SIONAL PE-2017018993

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROCF 27

Heartland Truss, Inc,

242042

Plattsburg, MO - 64477,

Half Hip Girder

| 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.730 s Oct 31 2024 MiTek Industries, Inc. | Wed Nov 27 97 89-31 2024 | Rags 2 2 4 | ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-4kviS0dljdV5Js | Nusa7Djr dd/RRWRUX9079jldv [2] 2 4

DEVELOPMENT SERVICE94

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-D=-70, D-E=-70, F-I=-20 Concentrated Loads (lb)

Vert: G=-1025(B) K=-2666(F) M=-2573(F) N=-2520(F)



AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Scale = 1:92.6

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

28

Job

242042

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 86

GENE BOSLEY RES. / ROO

Job Reference (optional)

Qty

AS9/judylAdd@r@KyF2

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-YwT4fMewUxdyxJy4PHeSF_ 29-2-8 6-0-0

Truss Type

Piggyback Base

6x6 = 2x4 || 5x8 ≫ 5x6 // ĄμG Е AI AJ Н 5x12 = 5x6 = 8.00 12 3x6 // ΑF AK 3x6 ≫ K AL 4x6 / 7x16 M18AHS || AM 4x6 / L_{AN} 2-0-0 U 7x10 = 8x10 = 4x10 = W R Q 0 Ν 5x8 =8x10 = 3x4 II 3x4 II 5x8 5x6 = 4x5 3x6 || 6x6 = 6x10 =4x6 = 1-4-4 1-2-8

Plate Offsets (X,Y)--[C:0-3-0,Edge], [F:0-3-12,0-2-0], [H:0-5-8,0-2-8], [J:0-3-12,0-2-0], [L:Edge,0-3-8], [S:0-7-12,0-5-4], [U:0-2-4,0-4-8], [V:0-7-12,0-6-4] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.99 Vert(LL) -0.29 S-T >999 240 MT20 244/190 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.92 Vert(CT) -0.49S-T >999 180 M18AHS 186/179 TCDL 10.0 Rep Stress Incr YES WB 0.93 Horz(CT) 0.23 M n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 430 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

2x4 SP 1650F 1.5E *Except* TOP CHORD

H-I,I-J,A-C: 2x4 SP No.2 2x6 SP No.1 *Except*

BOT CHORD E-W: 2x4 SP No.2, H-R: 2x4 SP No.3

0-1-12

WEBS 2x4 SP No.3 *Except*

V-X,F-U,Q-S,I-Q,L-N: 2x4 SP No.2

REACTIONS. (size) Z=0-3-8. M=Mechanical

Max Horz Z=302(LC 11)

Max Uplift Z=-173(LC 12), M=-184(LC 13) Max Grav Z=2674(LC 36), M=2679(LC 36)

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

TOP CHORD A-B=-463/0, B-D=-3486/345, D-E=-3677/439, E-F=-3424/554, F-G=-2955/453,

G-H=-2955/453, H-I=-3499/503, I-J=-2634/432, J-K=-3139/426, K-L=-3526/351,

L-M=-2588/256

BOT CHORD A-Z=-69/548, X-Z=-297/698, E-V=-54/775, U-V=-210/2655, T-U=-194/2624, S-T=-86/2861,

H-S=-169/1691, O-Q=-87/2392, N-O=-177/2780, M-N=-67/332

WEBS B-Z=-2477/392, B-X=-127/2242, D-X=-1033/165, V-X=-215/2631, D-V=-69/531, E-U=-1489/311, F-U=-339/1685, F-T=-199/780, G-T=-874/189, Q-S=-131/3190,

I-S=-145/793, I-Q=-2878/204, J-Q=-127/1102, J-O=-71/448, K-O=-525/190,

K-N=-321/115, L-N=-158/2481

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-0-0 to 4-9-14, Interior(1) 4-9-14 to 12-4-11, Exterior(2R) 12-4-11 to 22-0-6, Interior(1) 22-0-6 to 24-6-6, Exterior(2R) 24-6-6 to 29-4-4, Exterior(2E) 29-4-4 to 32-6-9, Exterior(2R) 32-6-9 to 40-4-7, Interior(1) 40-4-7 to 43-2-14, Exterior(2E) 43-2-14 to 48-0-12 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint Z and 184 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

E-U, G-T, H-T

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

2-0-0 oc purlins (3-1-2 max.): F-H, I-J.

2-2-0 oc bracing: V-W.

1 Row at midpt

2 Rows at 1/3 pts

November 27,2024

▲ 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



GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

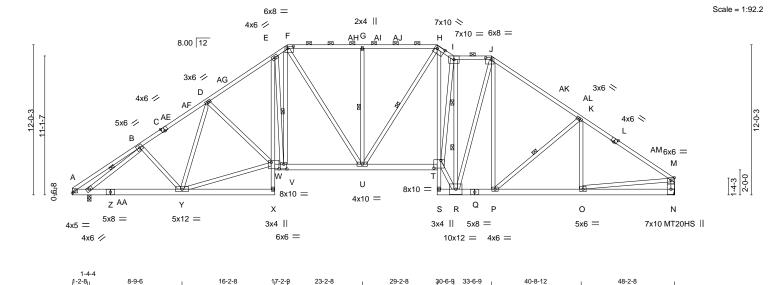
LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27-37.89 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-071SsieYFEmpYTXH; ?9hoBjK VF2cV (x. Heartland Truss, Inc, Plattsburg, MO - 64477, 30-6-9 33-6-9 1-4-2 3-0-0

Truss Type

Piggyback Base



Qty

	1-2-8	7-5-2	1	7-5-2	1-0-1	6-0-0	6-0-0	1-4-1	3-0-0	7-2-3	7-5-12	7
	0-1-12											
Plate Offset	s (X,Y)	[C:0-3-0,Edge],	[F:0-5-	12,0-2-0], [H:0-7-	3,0-2-8], [J:0-5-8,0-1-12],	[L:0-3-0,Edge]	, [T:0-6-	12,0-7-8]	, [V:0-3-0,0-4-8], [W:0	-7-8,0-6-4]	
LOADING ((nef)					·						

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.76 0.92	DEFL. Vert(LL) Vert(CT)	in -0.31 -0.52	(loc) T-U T-U	I/defI >999 >999	L/d 240 180	PLATES MT20 MT20HS	GRIP 244/190 187/143	
BCLL 0.0 BCDL 10.0	Rep Stress Incr Code IRC2018/TPI	YES 2014	WB Matri	0.87 x-MS	Horz(CT)	0.30	N	n/a	n/a	Weight: 444 lb	FT = 20%	

LUMBER-BRACING-

> 2x4 SP 2400F 2.0E *Except* TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

F-H: 2x4 SP 1650F 1.5E, H-I,I-J,A-C: 2x4 SP No.2 except end verticals, and 2-0-0 oc purlins (3-1-7 max.): F-H, I-J. 2x6 SP No.1 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

BOT CHORD 2-2-0 oc bracing: W-X E-X,H-S: 2x4 SP No.2 **WEBS**

2x4 SP No.3 *Except* 6-0-0 oc bracing: S-T. W-Y,M-N,M-O: 2x4 SP No.2, R-T: 2x4 SP 1650F 1.5E **WEBS** 1 Row at midpt

E-V, G-U, H-U, K-P, B-AA I-R: 2x4 SP 2400F 2.0E 2 Rows at 1/3 pts I-R

REACTIONS. (size) N=Mechanical, AA=0-3-8

Max Horz AA=302(LC 11)

Max Uplift N=-184(LC 13), AA=-173(LC 12) Max Grav N=2593(LC 36), AA=2630(LC 36)

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

TOP CHORD A-B=-624/75, B-D=-3416/383, D-E=-3600/462, E-F=-3274/526, F-G=-3010/462,

G-H=-3010/462, H-I=-3411/524, I-J=-2463/436, J-K=-3009/435, K-M=-3524/359,

M-N=-2503/260

BOT CHORD A-AA=0/439, Y-AA=-299/2707, E-W=-98/977, V-W=-216/2650, U-V=-203/2638,

T-U=-95/2798, S-T=-292/15, H-T=-214/1577, P-R=-62/2254, O-P=-171/2797, N-O=-81/359 D-Y=-780/113, W-Y=-235/2816, D-W=-199/347, E-V=-1267/243, F-V=-262/1434,

F-U=-200/784, G-U=-866/188, H-U=-158/434, R-T=-127/4193, I-T=-198/1974, I-R=-4073/268, J-R=-192/1133, J-P=-95/440, K-P=-704/228, B-AA=-3013/304,

M-O=-143/2463

NOTES-

WEBS

TOP CHORD

Job

242042

Truss

29

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-14, Interior(1) 4-9-14 to 12-4-11, Exterior(2R) 12-4-11 to 22-0-6, Interior(1) 22-0-6 to 24-6-6, Exterior(2R) 24-6-6 to 29-4-4, Exterior(2E) 29-4-4 to 30-6-9, Exterior(2R) 30-6-9 to 38-4-7, Interior(1) 38-4-7 to 43-2-14, Exterior(2E) 43-2-14 to 48-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint N and 173 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



November 27,2024





RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

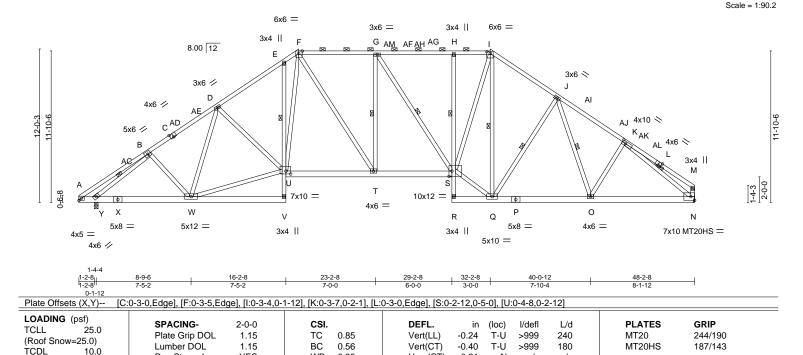
LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-UJbr42fB0YugAd5_XigwKPFTwe

Qty

Wed Nov 27



LUMBER-**BRACING-**

YES

2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

F-I: 2x4 SP 1650F 1.5E except end verticals, and 2-0-0 oc purlins (3-2-6 max.): F-I. 2x6 SP No.1 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

Horz(CT)

0.21

Ν

n/a

n/a

Weight: 413 lb

FT = 20%

6-0-0 oc bracing: R-S. E-V,H-R: 2x4 SP No.3 1 Row at midpt

0.95

WB

Matrix-MS

WEBS 2x4 SP No.3 *Except* E-U, H-S U-W,Q-S,I-S: 2x4 SP No.2 **WEBS** G-T, G-S, I-Q, J-Q, J-O, B-Y, K-N 1 Row at midpt

Max Horz Y=299(LC 11) Max Uplift N=-228(LC 13), Y=-246(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav N=2540(LC 32), Y=2651(LC 32)

(size) N=Mechanical, Y=0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. A-B=-621/88, B-D=-3430/372, D-E=-3532/434, E-F=-3301/505, F-G=-3073/448,

G-H=-2872/437, H-I=-2868/437, I-J=-2811/432, J-K=-3335/389, K-M=-452/136,

BOT CHORD A-Y=0/438, W-Y=-382/2736, E-U=-263/191, T-U=-205/2615, S-T=-183/3070, H-S=-645/140, O-Q=-116/2564, N-O=-207/2683

D-W=-700/103, U-W=-298/2908, D-U=-236/299, F-U=-233/1276, F-T=-197/896,

G-T=-573/266, G-S=-386/149, Q-S=-35/2554, I-S=-251/2454, I-Q=-1105/231,

J-Q=-720/231, J-O=-54/279, B-Y=-3052/273, K-N=-3157/214

NOTES-

WEBS

BCLL

BCDL

TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD

0.0

Job

242042

Heartland Truss, Inc,

Truss

Plattsburg, MO - 64477,

30

Truss Type

Hip

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-14, Interior(1) 4-9-14 to 10-4-11, Exterior(2R) 10-4-11 to 24-0-5, Interior(1) 24-0-5 to 25-4-11, Exterior(2R) 25-4-11 to 39-0-5, Interior(1) 39-0-5 to 43-2-14, Exterior(2E) 43-2-14 to 48-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint N and 246 lb uplift at
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



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



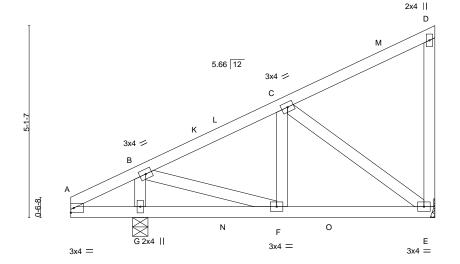
RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 31 Diagonal Hip Girder Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc.

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Wed Nov 27-97:89.3 onaf5QC9tcom82oid

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-yV9DHNgpns0Xongf5QCPtcenn 1-10-4 3-9-7 4-0-15

Scale = 1:30.7



		1-7-12 0 ⁻¹	2-8 3-9-7	,		4-0-1	15	ı		
TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO 12014	CSI. TC 0.38 BC 0.76 WB 0.30 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.05	(loc) E-F E-F E	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 55 lb	GRIP 244/190 FT = 20%

5-7-11

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.3 BRACING-TOP CHORD

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

except end verticals.

9-8-9

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

REACTIONS. (size) G=0-4-15, E=Mechanical

Max Horz G=167(LC 11)

Max Uplift G=-130(LC 12), E=-187(LC 12) Max Grav G=736(LC 18), E=690(LC 18)

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

TOP CHORD B-C=-654/214 F-F=-186/539

BOT CHORD

WEBS B-G=-718/318, B-F=-169/636, C-E=-645/296

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 9-6-13 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=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1-7-12

1-10-4

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint G and 187 lb uplift at joint E.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 76 lb up at 4-1-12, and 101 lb down and 76 lb up at 4-1-12 on top chord, and 12 lb down and 24 lb up at 4-1-12, 12 lb down and 24 lb up at 4-1-12, and 164 lb down and 89 lb up at 6-11-11, and 164 lb down and 89 lb up at 6-11-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-D=-70, E-H=-20

Concentrated Loads (lb)

Vert: O=-328(F=-164, B=-164)



November 27,2024



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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 32 Jack-Closed Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

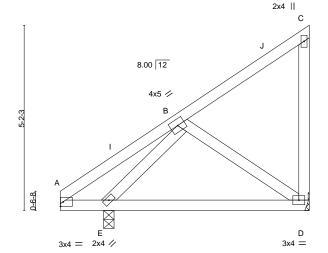
LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Not 27 97 82 5 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-yV9DHNgpns0Xongf5QC9tcok/2/8tyl/y/acVy/y/27

3-4-14 3-6-10

Scale: 3/8"=1



	I	1-2-8	5-9-0	<u> </u>			
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.49 BC 0.28	DEFL. in Vert(LL) -0.03 Vert(CT) -0.06	D-E >999 D-E >999	L/d 240 180		RIP 14/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.11 Matrix-MP	Horz(CT) 0.00	D n/a	n/a	Weight: 40 lb	FT = 20%

6-11-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

Heartland Truss, Inc,

2x4 SP No.2

2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS

> D=Mechanical, E=0-3-8 (size)

Max Horz E=179(LC 11)

Max Uplift D=-75(LC 12), E=-17(LC 12) Max Grav D=371(LC 18), E=479(LC 18)

Plattsburg, MO - 64477,

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

WEBS B-D=-286/163, B-E=-379/174

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

1-2-8

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint D and 17 lb uplift at joint E.
- 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 6-0-0 oc bracing.

except end verticals.



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 33 Jack-Closed 2 Job Reference (optional)

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

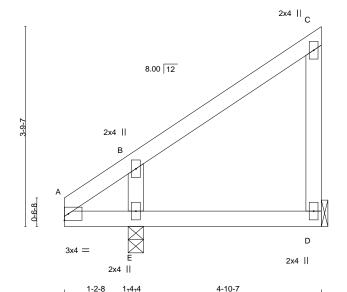
LEE'S SUMMIT, MISSOURI

Wed Nov 27-97;88

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-yV9DHNgpns0Xpngf5QC9tcon6

4-10-7

Scale = 1:21.8



LOADING (psf) TCLL 25.0 (Poof Spow=25.0)	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.28	DEFL. Vert(LL)	in 0.01	(loc) D-E	l/defl >999	L/d 240	
(Roof Snow=25.0) TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.02	D-E	>999	180	
DOLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	ט	n/a	n/a	

0-1-12

Matrix-MP

PLATES GRIP 244/190 MT20

Weight: 22 lb FT = 20%

LUMBER-

BCLL

BCDL

Heartland Truss, Inc,

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS

0.0

10.0

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-10-7 oc purlins,

except end verticals.

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

REACTIONS.

(size) D=Mechanical, E=0-3-8 Max Horz E=126(LC 11)

Plattsburg, MO - 64477,

Max Uplift D=-61(LC 9), E=-16(LC 12) Max Grav D=192(LC 18), E=451(LC 18)

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

Code IRC2018/TPI2014

WEBS B-E=-409/208

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint D and 16 lb uplift at joint E.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 34 Jack-Open 2 Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

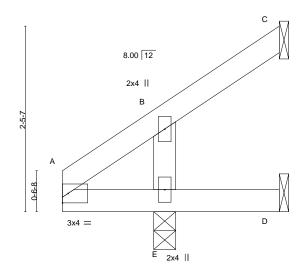
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Structural wood sheathing directly applied or 2-10-7 oc purlins.

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

2-10-7 2-10-7

Scale = 1:15.2



1	1-2-8	1-4-4	2-10-7	1
	1-2-8	0-1-12	1-6-3	1

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> (size) C=Mechanical, D=Mechanical, E=0-3-8

Max Horz E=73(LC 12)

Max Uplift C=-45(LC 12), D=-23(LC 18)

Max Grav C=35(LC 18), D=13(LC 10), E=340(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint C and 23 lb uplift at joint D.
- 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.





RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

> DEVELOPMENT SERVICES2 LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 86

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

35

Job

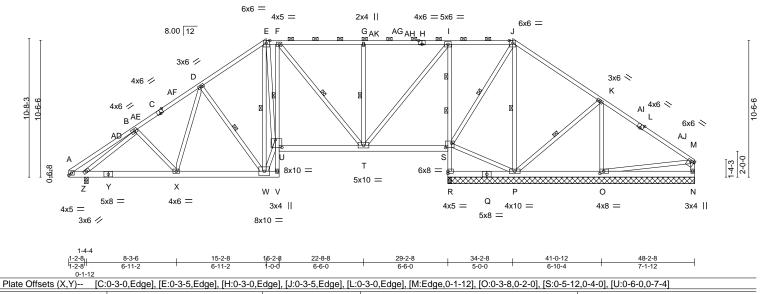
242042

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-uuHzi3h3JTGE14q2CrEqy11_T_TTTTff 29-2-8 6-6-0

Truss Type

Hip

Scale = 1:88.8



Qty

TCDL 10.0 Rep Stress Incr YES WB 0.82 Horz(CT) -0.17 I-U >999 180 RCL 0.0 Rep Stress Incr YES WB 0.82 Horz(CT) 0.08 R n/a n/a	BCLL 0.0	Rep Stress Incr YES	WB 0.82		PLATES GRIP MT20 244/190 Weight: 398 lb FT = 20%
--	----------	---------------------	---------	--	---

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and

E-H,J-L,H-J: 2x4 SP 1650F 1.5E 2-0-0 oc purlins (6-0-0 max.): E-J.

BOT CHORD 2x6 SP No.1 *Except* **BOT CHORD** Rigid ceiling directly applied or 3-1-8 oc bracing. Except: F-V,I-R: 2x4 SP No.3 F-U 1 Row at midpt

WEBS 2x4 SP No.3 2 Rows at 1/3 pts I-S

WEBS 1 Row at midpt D-W, E-W, F-T, G-T, J-S, J-P, K-P

REACTIONS. All bearings 19-0-0 except (jt=length) Z=0-3-8.

Max Horz Z=266(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) P, N except R=-315(LC 9), O=-119(LC 13), Z=-174(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except R=2565(LC 31), R=1864(LC 1), P=952(LC 32), O=620(LC

42), N=328(LC 42), Z=1553(LC 32)

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

TOP CHORD A-B=-417/65, B-D=-1680/259, D-E=-1102/274, E-F=-885/286, F-G=-499/219, G-I=-499/219, I-J=-110/754, J-K=-121/689, K-M=-183/345, M-N=-266/130

BOT CHORD A-Z=0/265, X-Z=-279/1430, W-X=-170/1189, F-U=-317/663, T-U=-142/880, S-T=-748/199,

R-S=-2530/338, I-S=-2299/349

WEBS B-X=-260/154, D-X=-16/277, D-W=-749/209, E-W=-721/170, U-W=-203/1562,

E-U=-222/1390, F-T=-907/160, G-T=-876/187, I-T=-252/1969, P-S=-520/182,

J-S=-495/60, J-P=-320/41, K-P=-507/130, K-O=-451/228, B-Z=-1561/187, M-O=-305/90

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 5-0-8, Interior(1) 5-0-8 to 8-4-11, Exterior(2R) 8-4-11 to 22-0-5, Interior(1) 22-0-5 to 27-4-11, Exterior(2R) 27-4-11 to 41-0-12, Interior(1) 41-0-12 to 43-2-14, Exterior(2E) 43-2-14 to 48-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, N except (jt=lb) R=315, O=119, Z=174.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



🔼 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



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 88

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

except end verticals, and 2-0-0 oc purlins (5-6-10 max.): E-H.

E-L, G-I

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

6-0-0 oc bracing: K-L.

1 Row at midpt

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

36

Job

242042

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-uuHzi3h3JTGE14p2CrEdy1typeSU 16-2-8 3-0-0

Truss Type

Half Hip

5x6 = 2x4 || 2x4 || Scale = 1:57.9 3x6 =F ⊠ V ₩ $G_{\bowtie} X$ \bowtie 8.00 12 3x6 / D 9-4-3 3x6 // 6x10 = 2-0-0 3x6 =9-9-L M K 3x6 =3x6 = 4x8 = 2x4 || 3x4 = 2x4 || 1-2-8 0-1-12

Qty

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

TCLL 25.0 (Roof Snow=25.0) 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 0.94 BC 0.68 WB 0.73	DEFL. in (loc) l/defl L/d Vert(LL) -0.17 I-J >999 240 Vert(CT) -0.35 I-J >785 180 Horz(CT) 0.03 I n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 181 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

F-K: 2x4 SP No.3

2x4 SP No.3 WEBS WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) I=0-3-8. O=0-3-8

Max Horz O=307(LC 9)

Max Uplift I=-187(LC 9), O=-144(LC 12) Max Grav I=1405(LC 28), O=1565(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-D=-1705/177, D-E=-1165/208, E-F=-956/214, F-G=-963/213

BOT CHORD M-O=-304/417, L-M=-233/1257, F-J=-437/112, I-J=-167/663

WEBS B-O=-1512/239, B-M=-39/1042, D-L=-648/189, E-L=-292/127, J-L=-177/952, E-J=-70/573,

G-J=-116/693, G-I=-1282/227

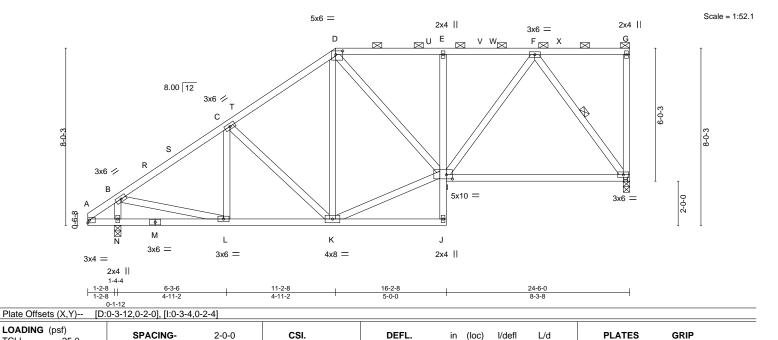
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-11-9, Exterior(2R) 8-11-9 to 17-5-7, Interior(1) 17-5-7 to 21-4-4, Exterior(2E) 21-4-4 to 24-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=187, O=144.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 242042 37 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97,82 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-N4rLwPih4nO5fEPHmYlsVFQCDGq



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.17

-0.35

0.03

H-I

H-I

Н

>999

>790

6-0-0 oc bracing: J-K.

1 Row at midpt

n/a

240

180

n/a

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

except end verticals, and 2-0-0 oc purlins (4-0-14 max.): D-G.

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

F-H

MT20

Weight: 169 lb

244/190

FT = 20%

BCDL LUMBER-

(Roof Snow=25.0)

TCLL

TCDL

BCLL

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

25.0

10.0

0.0

E-J: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) H=0-3-8, N=0-3-8

Max Horz N=257(LC 9)

Max Uplift H=-184(LC 9), N=-149(LC 12) Max Grav H=1491(LC 28), N=1547(LC 29)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

TC

вС

WB

Matrix-MS

0.64

0.69

0.45

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-1538/181, C-D=-1169/214, D-E=-1330/215, E-F=-1330/211 BOT CHORD L-N=-252/334, K-L=-225/1145, E-I=-611/137, H-I=-178/875

WEBS B-N=-1463/219, B-L=-52/1065, C-K=-461/151, I-K=-178/1002, D-I=-90/632,

F-I=-113/777, F-H=-1459/233

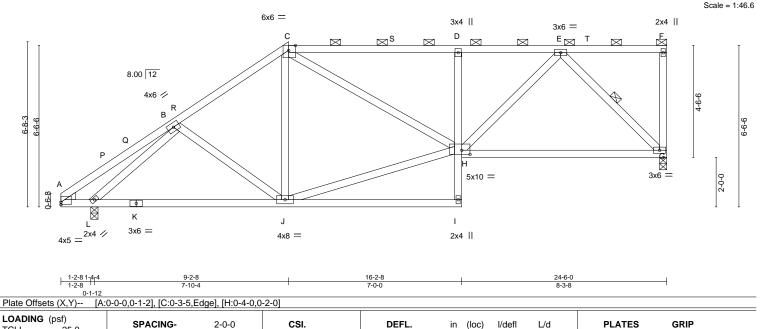
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 6-11-9. Exterior(2R) 6-11-9 to 15-5-7. Interior(1) 15-5-7 to 21-4-4, Exterior(2E) 21-4-4 to 24-4-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 38 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97:86 r BC ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-rGOk7ljJr4WyGO_QKFG51\$zl6/9@i



TCLL 25.0 Plate Grip DOL 1.15 TC 0.95 Vert(LL) -0.17 G-H >999 240 MT20 244/190 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.70 Vert(CT) -0.35G-H >792 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.66 Horz(CT) 0.06 G n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 154 lb FT = 20%BCDL BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

C-F: 2x4 SP 1650F 1.5E 2x4 SP No.2 *Except*

BOT CHORD D-I: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

REACTIONS. G=0-3-8, L=0-3-8 (size)

Max Horz L=200(LC 9)

Max Uplift G=-180(LC 9), L=-89(LC 12) Max Grav G=1570(LC 28), L=1424(LC 29)

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

TOP CHORD B-C=-1398/156, C-D=-2010/218, D-E=-1987/204 **BOT CHORD** J-L=-225/1069, D-H=-818/176, G-H=-204/1246

WFBS B-J=-281/221, C-J=-272/130, H-J=-183/1199, C-H=-145/1003, E-H=-97/1060,

E-G=-1739/252, B-L=-1478/208

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-9, Exterior(2R) 4-11-9 to 13-5-7, Interior(1) 13-5-7 to 21-4-4, Exterior(2E) 21-4-4 to 24-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L except (jt=lb) G=180.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-6-1 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): C-F.

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

E-G

6-0-0 oc bracing: I-J.

1 Row at midpt

November 27,2024

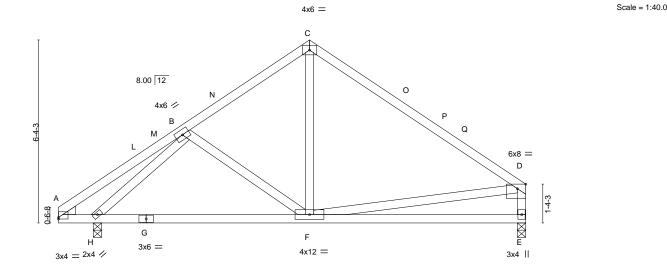


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 39 Common 3 Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 895 LEE'S SUMMIT. MISSOURI Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-rGOk7ljJr4WyGO_CKFG51SzHT/Ol



7-6-0

Structural wood sheathing directly applied, except end verticals.

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

Plate Offsets (X,Y)-- [A:0-0-0,0-0-10], [D:0-3-8,Edge]

1-2-8 1-4-4 1-2-8 0-1-12

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.99 BC 0.49 WB 0.35	DEFL. in (loc) I/defl L/d Vert(LL) -0.06 E-F >999 240 Vert(CT) -0.13 E-F >999 180 Horz(CT) 0.01 E n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 89 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

C-D: 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* D-E: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) E=0-3-8, H=0-3-8

Max Horz H=162(LC 11)

Max Uplift E=-61(LC 13), H=-78(LC 12) Max Grav E=760(LC 19), H=874(LC 18)

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

B-C=-703/141, C-D=-768/115, D-E=-693/116 TOP CHORD

BOT CHORD F-H=-114/650, E-F=-99/312

WFBS C-F=0/298, B-H=-888/184, D-F=-36/336

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-8-8, Exterior(2R) 5-8-8 to 11-8-8, Interior(1) 11-8-8 to 13-0-12, Exterior(2E) 13-0-12 to 16-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, H.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024

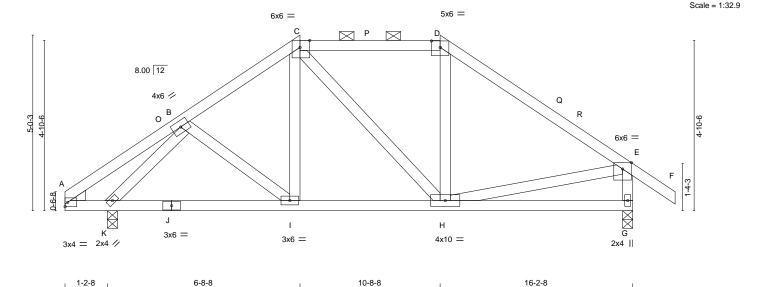


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 40 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477, Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-rGOk7ljJr4WyGO_QlkFG51Szlk0fg2zjhliR 10-8-8 3-3-6 4-0-0



1-	2-8 5	5-6-0	١ .	4-0-0	1			5-6-0		
Plate Offsets (X,Y) [C:0-3-5,Edge], [D:0-3-0,0-2-3	3]								
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI:	2-0-0 CSI. 1.15 TC 1.15 BC YES WB 2014 Matr	0.83 0.31 0.29 ix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) G-H G-H G	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 96 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) G=0-3-8, K=0-3-8

Max Horz K=135(LC 11)

Max Uplift G=-98(LC 13), K=-87(LC 12) Max Grav G=1077(LC 33), K=1084(LC 33)

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

B-C=-839/150, C-D=-608/162, D-E=-925/137, E-G=-1025/176 **BOT CHORD** I-K=-91/659, H-I=-49/609

WEBS B-K=-1106/192, E-H=-49/487

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 14-5-0, Exterior(2E) 14-5-0 to 17-5-0 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, K.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 41 Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27-97;88 Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-JTy6K5kxcOepuY2dtznKag\Za26h

4-0-0

12-8-8

4-0-0

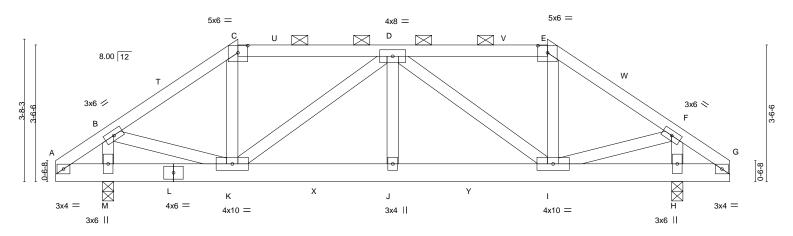
Scale = 1:29.8

i6-0- 2

Structural wood sheathing directly applied or 4-8-10 oc purlins,

2-0-0 oc purlins (4-9-2 max.): C-E.

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



1-2-8 0-1-12	3-4-4	4-0-0	4-0-0	3-4-4 0-1-12 1-2-8
Plate Offsets (X,Y) [C	:0-3-0,0-2-3], [E:0-3-0,0-2-3]			
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 NO Code IRC2018/TPI2014	BC 0.38	DEFL. in (loc) l/defl Vert(LL) -0.05 J >999 Vert(CT) -0.07 J-K >999 Horz(CT) 0.02 H n/a	L/d PLATES GRIP 240 MT20 244/190 180 n/a Weight: 108 lb FT = 20%

TOP CHORD

BOT CHORD

BRACING-LUMBER-

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

1-2-8 1-4-4

1-4-4

3-4-4

BOT CHORD 2x4 SP No.3 **WEBS**

REACTIONS. (size) M=0-3-8, H=0-3-8

Max Horz M=76(LC 9)

Max Uplift M=-385(LC 12), H=-387(LC 13) Max Grav M=1477(LC 32), H=1479(LC 32)

4-8-8

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

TOP CHORD B-C=-1558/463, C-D=-1265/408, D-E=-1268/409, E-F=-1562/465

BOT CHORD J-K=-514/1958, I-J=-514/1958

WFBS B-M=-1336/405, B-K=-334/1245, C-K=-192/563, D-K=-876/235, D-J=-117/457,

D-I=-872/232, E-I=-193/565, F-I=-339/1248, F-H=-1339/406

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 14-5-0, Exterior(2E) 14-5-0 to 17-5-0 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=385, H=387
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 330 lb down and 191 lb up at 4-8-8, 158 lb down and 80 lb up at 6-9-4, 158 lb down and 80 lb up at 8-9-4, and 158 lb down and 80 lb up at 10-9-4, and 330 lb down and 191 lb up at 12-7-12 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: A-C=-70, C-E=-70, E-G=-70, N-Q=-20



16-2-8 17-5-0

November 27,2024



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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty GENE BOSLEY RES. / ROCF DEVELOPMENT SERVICES 41 242042 Hip Girder

Heartland Truss, Inc, Plattsburg, MO - 64477, LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: K=-330(F) J=-158(F) I=-330(F) X=-158(F) Y=-158(F)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 42 Diagonal Hip Girder 2

Heartland Truss, Inc, Plattsburg, MO - 64477,

Job Reference (optional)

D 3x6 =

except end verticals.

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

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

LEE'S SUMMIT. MISSOURI

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

> 2x4 || Scale = 1:22.4 С 5.66 12 3x4 / R

6-6-6 1-7-12

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0							(/				
	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.02	D-E	>999	240	MT20	244/190
(Roof Snow=25.0)	Lumber DOL	1.15	ВС	0.21	Vert(CT)	0.02	D-E	>999	180		
TCDL 10.0					/			/555	100		
	Rep Stress Incr	NO	WB	0.10	Horz(CT)	-0.00	D	n/a	n/a		
BCLL 0.0		10044			()		_			1M-1-1-4-00 II-	FT 000/
BCDL 10.0	Code IRC2018/TF	212014	Matri	X-IVIP						Weight: 33 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

REACTIONS. (size) E=0-4-15, D=Mechanical Max Horz E=128(LC 11)

Max Uplift E=-106(LC 12), D=-100(LC 9) Max Grav E=502(LC 18), D=193(LC 18)

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

8-9-0

WEBS B-E=-526/258

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 6-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

2x4 ||

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) F=106
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 105 lb up at 3-9-8, and 93 lb down and 105 lb up at 3-9-8 on top chord, and 64 lb up at 3-9-8, and 64 lb up at 3-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 9) 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

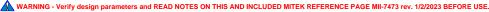
Uniform Loads (plf)

Vert: A-C=-70, D-F=-20 Concentrated Loads (lb)

Vert: I=60(F=30, B=30) J=66(F=33, B=33)











RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW 242042 43 Jack-Closed 5

Heartland Truss, Inc, Plattsburg, MO - 64477, Job Reference (optional)

DEVELOPMENT SERVICESO LEE'S SUMMIT. MISSOURI

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 89-41-2024 Rags ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-nfWUYRIaNimgWi8 RgJa712 UT 8FE IV 4V 5 44 FET

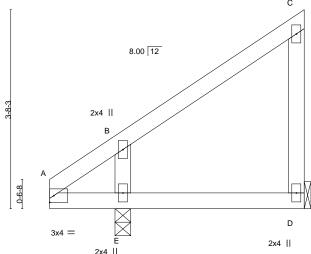
4-8-8

2x4 || C Scale = 1:21.3

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

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

except end verticals.



1	1-2-8	1 ₇ 4 ₇ 4	4-8-8	1
Г	1-2-8	0-1-12	3-4-4	

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.25 0.18	DEFL. Vert(LL) Vert(CT)	in 0.01 -0.01	(loc) D-E D-E	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	D	n/a	n/a	Waisht 22 lb	FT 200/
BCDL 10.0	Code IRC2018/TP	12014	Matri	X-IVIP						Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

> D=Mechanical, E=0-3-8 (size)

Max Horz E=122(LC 11)

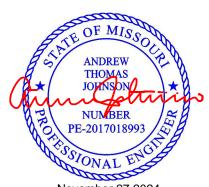
Max Uplift D=-60(LC 9), E=-16(LC 12) Max Grav D=178(LC 18), E=439(LC 18)

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

WEBS B-E=-389/199

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 44 Roof Special Girder LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 12 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Fr4sInIC7?u (7sj??Oq 1551s)u(V31 21 17N-17) 2 Heartland Truss, Inc, Plattsburg, MO - 64477,

4-3-8

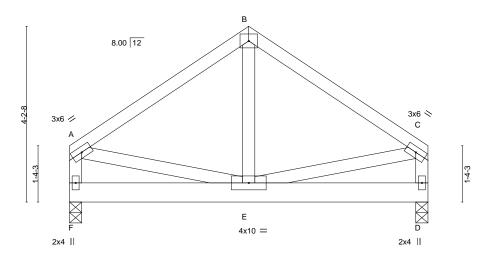
8-7-0 4-3-8

4x5 = Scale = 1:27.6

Structural wood sheathing directly applied or 4-7-5 oc purlins,

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

except end verticals.



LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI (loc) I/defl L/d TCLL 25.0Plate Grip DOL Vert(LL) -0.01 240 244/190 1.15 TC 0.79 Ε >999 MT20 (Roof Snow=25.0) Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.01 Е >999 180 **TCDL** 10.0 Rep Stress Incr NO WB 0.22 Horz(CT) -0.00 D n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 55 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) F=0-3-8, D=0-3-8 Max Horz F=107(LC 9)

Max Uplift F=-168(LC 12), D=-168(LC 13) Max Grav F=743(LC 18), D=743(LC 19)

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

TOP CHORD A-B=-715/268, B-C=-715/268, A-F=-701/260, C-D=-701/251

WFRS B-E=-169/375, A-E=-163/524, C-E=-143/524

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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, Exterior(2R) 3-1-12 to 5-5-4, Exterior(2E) 5-5-4 to 8-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=168, D=168
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 544 lb down and 282 lb up at 4-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-B=-70, B-C=-70, D-F=-20

Concentrated Loads (lb) Vert: E=-544(F)



November 27,2024



▲ 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 242042 45 Common LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27 97 89 12 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Fr4sInIC7?ux 7sj??Oqt 15 britk_zth_enryly 22 Heartland Truss, Inc, Plattsburg, MO - 64477,

4-3-8

Scale = 1:27.6 4x5 = В 8.00 12 3x6 💸 3x6 🗸 С Е D 4x8 = 2x4 | 2x4 SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL Vert(LL) -0.01 240 244/190 1.15 TC 0.65 E-F >999 MT20 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.02 E-F >999 180

-0.00

D

n/a

except end verticals.

n/a

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

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

Weight: 48 lb

FT = 20%

4-3-8

LUMBER-

LOADING (psf)

(Roof Snow=25.0)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

10.0

0.0

WEBS 2x4 SP No.3

REACTIONS. (size) F=0-3-8, D=0-3-8 Max Horz F=110(LC 11)

Max Uplift F=-33(LC 12), D=-33(LC 13)

Max Grav F=471(LC 18), D=471(LC 19)

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

TOP CHORD A-B=-366/96, B-C=-366/96, A-F=-439/129, C-D=-439/119

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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, Exterior(2R) 3-1-12 to 5-5-4, Exterior(2E) 5-5-4 to 8-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

WB

Matrix-MP

0.09

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, D.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 46 Diagonal Hip Girder LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 9943 2024 Rags 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-j2eEz7mquJ00l3 HCZ5L2Q 175Hgliikk 124a/885/12 U

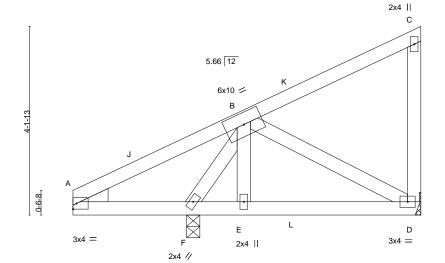
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

3-9-1 3-10-12

Scale = 1:25.3



		6-0 1-3-1	3-1	10-12	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.45 BC 0.30 WB 0.11	DEFL. in Vert(LL) 0.01 Vert(CT) -0.01 Horz(CT) -0.00	(loc) I/defl L/d D-E >999 240 D-E >999 180 F n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 42 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

Heartland Truss, Inc,

Plattsburg, MO - 64477,

REACTIONS. (size) D=Mechanical, F=0-3-8

Max Horz D=149(LC 11)

Max Uplift D=-112(LC 9), F=-104(LC 12) Max Grav D=215(LC 18), F=606(LC 18)

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

TOP CHORD A-B=-150/311 WEBS B-F=-507/266

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 7-6-1 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=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=112, F=104.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 95 lb up at 4-10-15, and 124 lb down and 176 lb up at 4-10-15 on top chord, and 11 lb down and 18 lb up at 4-10-15, and 12 lb down and 111 lb up at 4-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-C=-70, D-G=-20 Concentrated Loads (lb) Vert: K=42(F) L=49(F=47, B=2)



November 27,2024



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



RELEASE FOR CONSTRUCTION Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

Job Reference (optional)

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

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

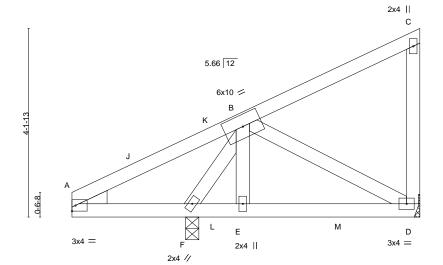
except end verticals.

LEE'S SUMMIT. MISSOURI

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 43 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-j2eEz7mquJ0Ol? HCZ5L2C 75 Haltice X-av88/12

3-9-1 3-10-12

Scale = 1:25.3



Diagonal Hip Girder

	·	2-6-0 1-3-1	3-10-12	· · · · · · · · · · · · · · · · · · ·		
LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.46	DEFL. in (loc) Vert(LL) -0.03 D-E			GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.54 WB 0.15 Matrix-MP	Vert(CT) -0.04 D-E Horz(CT) -0.00 F	>999 180 n/a n/a	Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

242042

Heartland Truss, Inc,

47

Plattsburg, MO - 64477,

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 REACTIONS. (size) D=Mechanical, F=0-3-8

Max Horz D=149(LC 11) Max Uplift D=-129(LC 9), F=-161(LC 12)

Max Grav D=386(LC 18), F=639(LC 18)

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

TOP CHORD A-B=-138/296 WEBS B-F=-719/290

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 7-6-1 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=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=129, F=161.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 95 lb up at 3-2-7, and 124 lb down and 176 lb up at 3-2-7 on top chord, and 23 lb down and 18 lb up at 3-2-7, and 24 lb down and 111 lb up at 3-2-7, and 203 lb down and 92 lb up at 5-11-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-C=-70, D-G=-20

Concentrated Loads (lb)

Vert: K=42(B) L=49(F=2, B=47) M=-203(F)



November 27,2024

🔼 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 48 Jack-Closed LEE'S SUMMIT. MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27 97 89 44 2024 Rago ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_BECdASnSfd8FN9sO6psHkWgh YgyyktloymbkyhbyF21

5-4-3

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 5-4-3 oc purlins,

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

Scale = 1:25.1

2x4 || 8.00 12 2x4 В 8-9-0 D 3x4 =

1	1-2-8	1 ₇ 4 ₇ 4	5-4-3	- 1
	1-2-8	0-1-12	3-11-15	_

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0				0.00		in	' '			-		
(Roof Snow=25.0)	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.02	D-E	>999	240	MT20	244/190	
(Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	D-E	>999	180			
TCDL 10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	D	n/a	n/a			
BCLL 0.0	Code IRC2018/TF		Matri		11012(01)	0.00		11/4	11/4	Weight: 24 lb	FT = 20%	
BCDL 10.0	Code IRC2016/1F	12014	IVIALITA	X-IVIP						Weight. 24 ib	F1 = 20%	

2x4 ||

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

> D=Mechanical, E=0-3-8 (size) Max Horz E=138(LC 11)

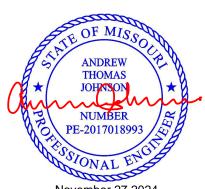
Max Uplift D=-64(LC 9), E=-18(LC 12) Max Grav D=231(LC 18), E=482(LC 18)

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

WEBS B-E=-465/236

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 49 Jack-Open 2

LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 88 44 2024 Rags : ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-BECdASnSfd8FN9sO psHkWg Eqxxkt mcKylhpyf27

Structural wood sheathing directly applied or 3-4-15 oc purlins.

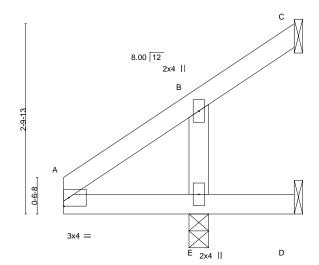
Rigid ceiling directly applied or 10-0-0 oc bracing.

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

3-4-15

Scale = 1:17.0



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.28 BC 0.30 WB 0.08	Vert(CT) 0.	in (loc) 0.00 D-E 0.00 D-E 0.05 D	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 13 lb	FT = 20%

LUMBER-

REACTIONS.

WEBS

Heartland Truss, Inc,

Plattsburg, MO - 64477,

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

2x4 SP No.3

C=Mechanical, D=Mechanical, E=0-3-8 (size)

Max Horz C=87(LC 12)

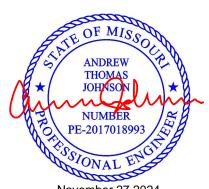
Max Uplift C=-25(LC 21), D=-83(LC 18), E=-134(LC 12) Max Grav C=55(LC 12), D=29(LC 12), E=535(LC 18)

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

WEBS B-E=-328/224

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb) E=134.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 50 Jack-Open 2 Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc.

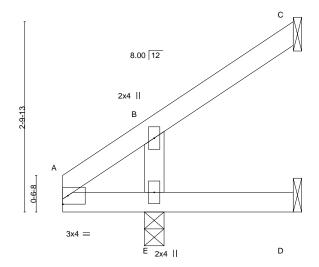
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICEST LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27 97 82 44 2021 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-BECdASnSfd8FN9sO psHkWg_8gdjFctxmbkyhyF2T

3-4-15

Scale = 1:17.0



1-2-8	1-4-4	3-4-15	1
1-2-8	0-1-12	2-0-11	_

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.16		in (loc) .00 D-E	l/defl L/d >999 240	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12		.00 D-E	>999 180	
BCLL 0.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.05 Matrix-MP	Horz(CT) -0	.01 C	n/a n/a	Weight: 13 lb FT = 20%
BCDL 10.0	Code INC2016/1712014	IVIAUIX-IVIF				Weight. 13 lb F1 = 20 /6

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS

Structural wood sheathing directly applied or 3-4-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

Heartland Truss, Inc,

(size) C=Mechanical, D=Mechanical, E=0-3-8

Max Horz E=87(LC 12)

Max Uplift C=-54(LC 12), D=-12(LC 12)

Plattsburg, MO - 64477,

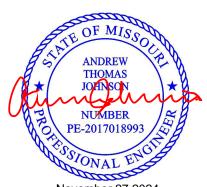
Max Grav C=73(LC 18), D=23(LC 5), E=362(LC 18)

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

WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024



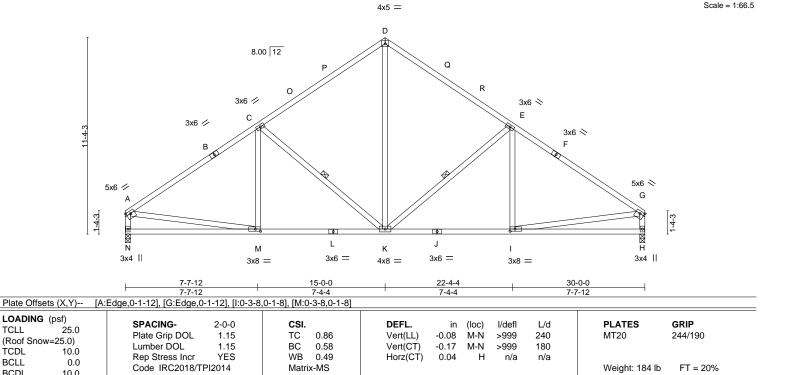
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 51 Common LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97;88 Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-fQm?Ooo4QwG6_JRagWNWHjDL24EJ



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SP 1650F 1.5E *Except* TOP CHORD

A-B,F-G: 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. Max Horz N=288(LC 9)

(size) N=0-3-8, H=0-3-8

Max Uplift N=-126(LC 12), H=-126(LC 13) Max Grav N=1345(LC 18), H=1345(LC 19)

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

TOP CHORD A-C=-1719/190, C-D=-1273/255, D-E=-1273/255, E-G=-1719/194, A-N=-1274/165,

G-H=-1274/165

M-N=-278/396, K-M=-183/1333, I-K=-53/1333

BOT CHORD WEBS D-K=-110/781, E-K=-586/246, C-K=-586/246, A-M=-46/1174, G-I=-29/1174

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 12-0-0, Exterior(2R) 12-0-0 to 18-0-0 , Interior(1) 18-0-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied, except end verticals.

E-K, C-K

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

1 Row at midpt

November 27,2024

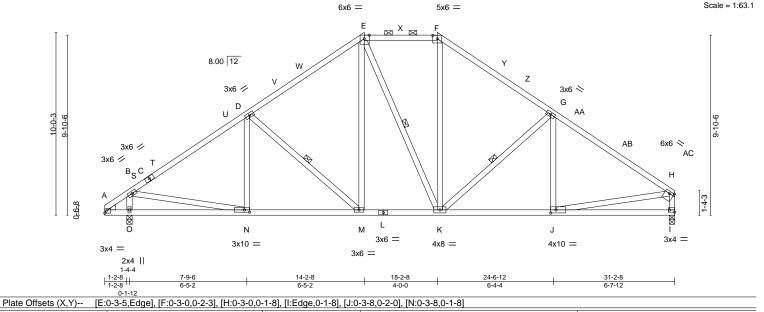


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 52 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-fQm?Ooo4QwG6_JRagWNWHjD_84-3 18-2-8 4-0-0 14-2-8 6-5-2 24-6-12



LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.10 M-N >999 240 MT20 244/190 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.56 Vert(CT) -0.17 M-N >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.71 Horz(CT) 0.05 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 205 lb FT = 20%BCDL

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except*

E-F,A-C: 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3

WEBS WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) O=0-3-8. I=0-3-8

Max Horz O=252(LC 11)

Max Uplift O=-154(LC 12), I=-134(LC 13) Max Grav O=2080(LC 32), I=1952(LC 32)

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

TOP CHORD B-D=-2474/191, D-E=-1961/227, E-F=-1420/243, F-G=-1964/231, G-H=-2479/184,

H-I=-1886/168

BOT CHORD A-O=-37/287, N-O=-247/433, M-N=-185/1903, K-M=-30/1420, J-K=-75/1915

WFBS B-O=-2013/261, B-N=-55/1640, D-M=-627/203, E-M=-70/513, F-K=-60/531, G-K=-648/202,

H-J=-28/1706

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-7, Interior(1) 3-1-7 to 9-9-9, Exterior(2R) 9-9-9 to 22-7-7, Interior(1) 22-7-7 to 27-11-5, Exterior(2E) 27-11-5 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=154. I=134.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-2-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-5-13 max.): E-F.

D-M, E-K, G-K

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

1 Row at midpt

November 27,2024

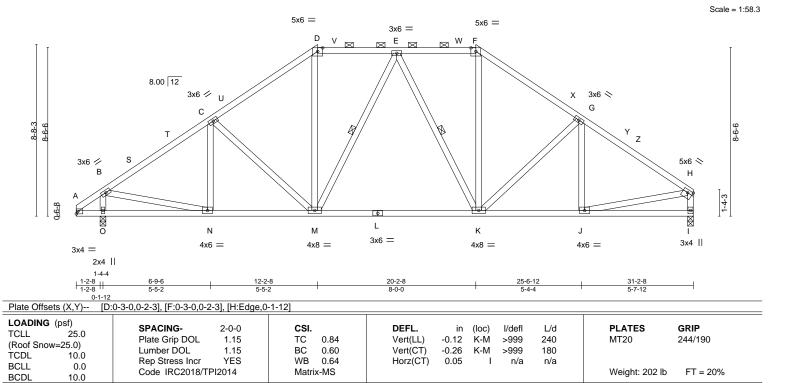


▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 53 Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Now 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-8dJNb8oiBEOzcT0 mEEulqxl V22an LijE5opbiVV 16-2-8 4-0-0 20-2-8 4-0-0



LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-0 max.): D-F. Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS E-M, E-K 1 Row at midpt

REACTIONS. (size) O=0-3-8, I=0-3-8 Max Horz O=219(LC 11)

Max Uplift O=-161(LC 12), I=-141(LC 13) Max Grav O=2015(LC 32), I=1808(LC 32)

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

TOP CHORD B-C=-2192/200, C-D=-1828/247, D-E=-1345/251, E-F=-1348/254, F-G=-1834/252,

G-H=-2209/198, H-I=-1747/171

BOT CHORD N-O=-211/305, M-N=-184/1674, K-M=-80/1375, J-K=-97/1697

WEBS B-O=-1919/247, B-N=-97/1537, C-M=-443/171, D-M=-47/501, E-M=-340/163, E-K=-337/162,

F-K=-50/518, G-K=-470/170, H-J=-69/1548

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-7, Interior(1) 3-1-7 to 7-9-9, Exterior(2R) 7-9-9 to 24-7-7, Interior(1) 24-7-7 to 27-11-5, Exterior(2E) 27-11-5 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=161, I=141.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



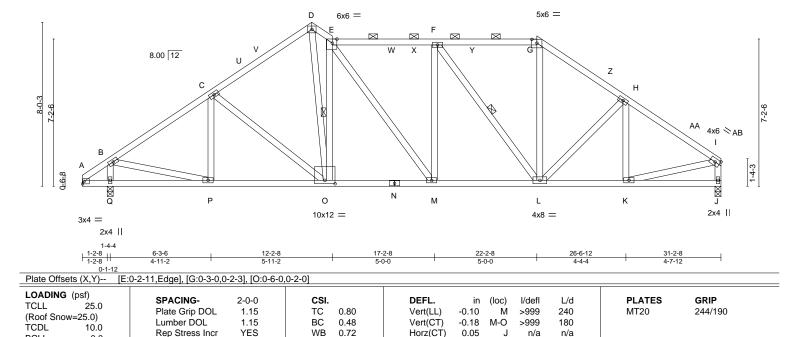
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 54 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Now 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-cptlpUpKyYWqEdt_zoxP_M8 iMyys

> 4x5 = Scale = 1:56.3



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCLL

BCDL

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

WEBS 2x4 SP No.3 REACTIONS. (size) Q=0-3-8, J=0-3-8

0.0

Max Uplift Q=-114(LC 12), J=-179(LC 13) Max Grav Q=1525(LC 35), J=1538(LC 34)

Max Horz Q=204(LC 11)

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

Code IRC2018/TPI2014

TOP CHORD B-C=-1707/182, C-D=-1573/245, D-E=-1731/285, E-F=-1746/288, F-G=-1360/275,

G-H=-1669/286, H-I=-1802/234, I-J=-1488/202

BOT CHORD O-P=-141/1343, M-O=-111/1483, L-M=-107/1743, K-L=-145/1383

WEBS B-Q=-1426/209, B-P=-75/1287, C-O=-288/155, D-O=-251/1731, E-O=-1615/304,

E-M=-96/445, F-M=-261/142, F-L=-646/127, G-L=-42/557, H-L=-345/133, I-K=-117/1298

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-7, Interior(1) 3-1-7 to 8-1-1, Exterior(2R) 8-1-1 to 11-2-8, Exterior(2E) 11-2-8 to 12-2-8, Interior(1) 12-2-8 to 19-1-1, Exterior(2R) 19-1-1 to 25-3-15, Interior(1) 25-3-15 to 27-11-5, Exterior(2E) 27-11-5 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-MS

- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) Q=114, J=179.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 212 lb

Structural wood sheathing directly applied or 3-11-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-6-0 max.): E-G.

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

1 Row at midpt

FT = 20%

November 27,2024



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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 242042 55 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-4?R70qqzjrehrnA9LexDvMqtGM

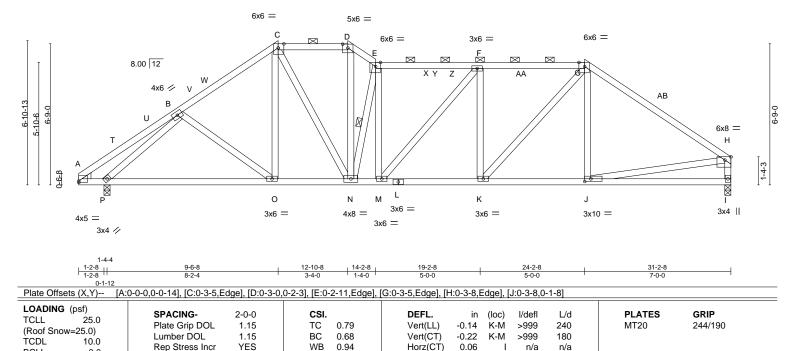
3-4-0

Matrix-MS

Scale = 1:55.1

FT = 20%

Weight: 208 lb



BRACING-

TOP CHORD

BOT CHORD

WEBS

n/a

1 Row at midpt

n/a

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

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

except end verticals, and 2-0-0 oc purlins (3-0-3 max.): C-D, E-G.

LUMBER-

BCLL

BCDL

2x4 SP No.2 *Except* TOP CHORD

0.0

G-H: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

2x4 SP No.3 *Except* **WEBS**

H-I: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. I=0-3-8, P=0-3-8 (size)

Max Horz P=174(LC 11)

Max Uplift I=-174(LC 13), P=-99(LC 12) Max Grav I=1533(LC 36), P=1802(LC 36)

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

Code IRC2018/TPI2014

TOP CHORD A-B=-269/108, B-C=-1838/236, C-D=-1865/266, D-E=-2274/312, E-F=-2239/274,

F-G=-2312/292, G-H=-1974/228, H-I=-1465/210

BOT CHORD O-P=-188/1472, N-O=-134/1502, M-N=-162/2232, K-M=-159/2308, J-K=-100/1600,

C-O=-10/253, C-N=-126/769, D-N=-125/1002, E-N=-1665/225, F-K=-692/170,

G-K=-153/1065, B-P=-1963/294, H-J=-105/1486

NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-7, Interior(1) 3-1-7 to 6-5-1, Exterior(2R) 6-5-1 to 12-10-8, Exterior(2E) 12-10-8 to 14-2-8, Interior(1) 14-2-8 to 21-1-1, Exterior(2R) 21-1-1 to 27-3-15, Interior(1) 27-3-15 to 27-11-5, Exterior(2E) 27-11-5 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P except (jt=lb) I=174.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION

GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-YC?WDArbU9nXTwlLvI ISSRZNEUhaP6cRg.wn1

Structural wood sheathing directly applied or 3-7-11 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (4-4-12 max.): C-E, F-H.

Heartland Truss, Inc, Plattsburg, MO - 64477,

Truss

56

Job

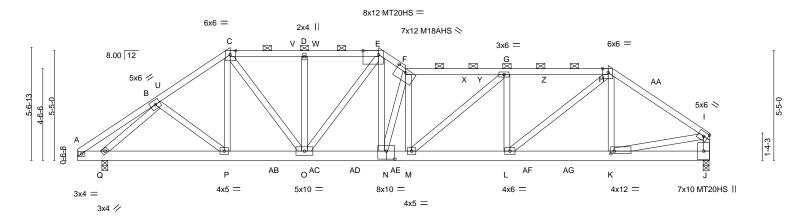
242042

3-8-0

Truss Type

Roof Special Girder

Scale = 1:56.9



Qty

Ply

1-4-4								
1-2-8 11	7-6-8	11-2-8	14-10-8	16-2-8	21-2-8	26-2-8	31-2-4	31-2-8
1-2-8	6-2-4	3-8-0	3-8-0	1-4-0	5-0-0	5-0-0	4-11-12	0-0-4
0-1-12								

Plate Offsets (X,Y) [0	C:0-3-5,Edge], [E:0-9-5,Edge], [F:0-6-0,0	-2-0], [H:0-3-5,Edge], [K:0)-2-0,0-1-8], [N:0-5-0,0-	4-12]				
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 NO Code IRC2018/TPI2014	CSI. TC 0.63 BC 0.73 WB 0.96 Matrix-MS	DEFL. ir Vert(LL) -0.28 Vert(CT) -0.39 Horz(CT) 0.07	B M D L-M	l/defl >999 >927 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS M18AHS Weight: 446 lb	GRIP 244/190 187/143 186/179 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

F-H: 2x4 SP 1650F 1.5E

BOT CHORD 2x6 SP No.1

2x4 SP No.3 *Except* **WEBS** C-P,E-N: 2x4 SP No.2

REACTIONS. (size) J=0-3-8, Q=0-3-8

Max Horz Q=139(LC 63)

Max Uplift J=-943(LC 13), Q=-815(LC 12) Max Grav J=4243(LC 36), Q=4365(LC 36)

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

TOP CHORD A-B=-731/129, B-C=-6159/1329, C-D=-7026/1492, D-E=-7026/1492, E-F=-9675/2023,

F-G=-8932/1836, G-H=-8043/1668, H-I=-5717/1283, I-J=-4182/963

BOT CHORD A-Q=-64/551, P-Q=-949/4262, O-P=-1091/5147, N-O=-1546/7657, M-N=-1790/8983,

L-M=-1609/8040, K-L=-1009/4751, J-K=-90/318

WFBS B-P=-276/1131, C-P=-242/730, C-O=-602/3208, D-O=-643/137, E-O=-1086/285,

E-N=-1277/5993, F-N=-3980/802, F-M=-1587/388, G-M=-223/1329, G-L=-1674/341,

H-L=-808/4295, H-K=-319/261, B-Q=-5232/1159, I-K=-1004/4650

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-7, Interior(1) 3-1-7 to 4-5-1, Exterior(2R) 4-5-1 to 10-7-15, Interior(1) 10-7-15 to 11-9-1, Exterior(2R) 11-9-1 to 14-10-8, Exterior(2E) 14-10-8 to 16-2-8, Interior(1) 16-2-8 to 23-1-1, Exterior(2R) 23-1-1 to 27-11-5, Exterior(2E) 27-11-5 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=25.0 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=943, Q=815.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere naestagia 12 dard ANSI/TPI 1



November 27,2024

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROOF AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 Roof Special Girder 242042 56 LEE'S SUMMIT. MISSOURI

Plattsburg, MO - 64477, Heartland Truss, Inc,

| Job Reference (optional) | LEE'S SUMMIT, MISSOU | 8.730 s Oct 31 2024 MiTek Industries, Inc. | Wed Not 27-97.8949-2024 | Rags 2 | ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-YC?WDArbU9nXTwlLvii ISSRZNSUbarbackowini f MyF2102

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1145 lb down and 353 lb up at 7-6-8, 389 lb down and 96 lb up at 9-7-4, 389 lb down and 96 lb up at 11-7-4, 389 lb down and 96 lb up at 13-7-4, 1177 lb down and 341 lb up at 14-9-12, 470 lb down and 95 lb up at 21-3-4, 285 lb down and 99 lb up at 22-1-12, and 285 lb down and 99 lb up at 24-1-12, and 783 lb down and 350 lb up at 26-1-12 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-C=-70, C-E=-70, E-F=-70, F-H=-70, H-I=-70, J-R=-20

Concentrated Loads (lb)

Vert: P=-1145(F) L=-470(F) K=-783(F) AB=-389(F) AC=-389(F) AD=-389(F) AE=-1177(F) AF=-285(F) AG=-285(F)



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

> GRIP 244/190

> > FT = 20%

LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 82-60 2021 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-0OZuRWsDFTvO54K YT3zh_nvJ92uyrkvy92nduyvF2T

10-6-8

except end verticals.

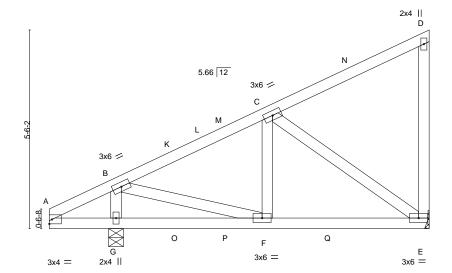
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

10-6-8 4-5-14

Qty

Scale: 3/8"=1



BRACING-

TOP CHORD

BOT CHORD

4-2-6

	1712 110			10		
	1-7-12 0-2	<u>-</u> 8 4-2-6	'	4-5	-14	<u>'</u>
CADING (psf) SPACING-	1.15 r NO	CSI. TC 0.45 BC 0.77 WB 0.37 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.08 E-F -0.11 E-F -0.00 E	l/defl L/d >999 240 >917 180 n/a n/a	PLATES MT20 Weight: 59 lb

6-0-10

LUMBER-

Job

242042

Heartland Truss, Inc.

Truss

Plattsburg, MO - 64477,

57

Truss Type

1-10-4

1-7-12

Diagonal Hip Girder

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 1650F 1.5E WEBS 2x4 SP No.3

REACTIONS. (size) G=0-4-15, E=Mechanical

Max Horz G=179(LC 11) Max Uplift G=-240(LC 12), E=-229(LC 12) Max Grav G=664(LC 18), E=784(LC 18)

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

TOP CHORD B-C=-680/322

BOT CHORD F-G=-269/180, E-F=-263/578

WEBS B-G=-729/367, B-F=-179/737, C-F=-140/256, C-E=-677/375

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 10-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=240, E=229.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 96 lb up at 3-6-11, 76 lb down and 96 lb up at 3-6-11, and 103 lb down and 91 lb up at 4-11-11, and 103 lb down and 91 lb up at 4-11-11 on top chord, and 74 lb up at 3-6-11, 74 lb up at 3-6-11, 11 lb down and 18 lb up at 4-11-11, 11 lb down and 18 lb up at 4-11-11, and 211 lb down and 93 lb up at 7-9-10, and 211 lb down and 93 lb up at 7-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-D=-70, E-H=-20

Concentrated Loads (lb)

Vert: K=67(F=34, B=34) O=75(F=38, B=38) P=3(F=2, B=2) Q=-422(F=-211, B=-211)



November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

Diagonal Hip Girder

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 39 51 2024 Rags 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Ua7Gessr0m1FiEvk1 UwX_ST_IVFmac(z) 44/NRWFETM

10-6-8

except end verticals.

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

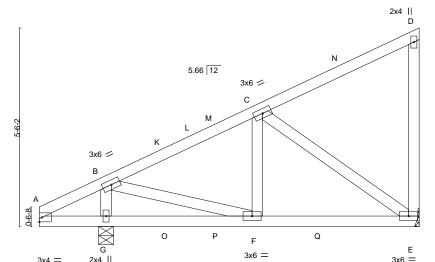
Rigid ceiling directly applied or 6-0-0 oc bracing.

LEE'S SUMMIT. MISSOURI

Scale: 3/8"=1

10-6-8

1-10-4 4-2-6 4-5-14



		1-7-12 0-2-8	3	4-2-6	· · · · · · · · · · · · · · · · · · ·		4-5	-14		•	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.4	- 1	DEFL. Vert(LL)	in -0.08	(loc) E-F	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TPI2	1.15 NO 2014	BC 0.8 WB 0.4 Matrix-MS	10	Vert(CT) Horz(CT)	-0.11 0.00	E-F E	>895 n/a	180 n/a	Weight: 59 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

6-0-10

LUMBER-

242042

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 1650F 1.5E

WEBS 2x4 SP No.3

REACTIONS. (size) G=0-4-15, E=Mechanical Max Horz G=179(LC 11) Max Uplift G=-192(LC 12), E=-217(LC 12)

58

Max Grav G=733(LC 18), E=816(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD B-C=-736/256 **BOT CHORD** F-F=-241/621

WEBS B-G=-768/352, B-F=-180/753, C-F=-109/291, C-E=-729/348

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 10-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1-7-12

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=192, E=217.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 96 lb up at 3-6-11, and 107 lb down and 94 lb up at 4-11-11, and 103 lb down and 91 lb up at 4-11-11 on top chord, and 74 lb up at 3-6-11, 16 lb down and 17 lb up at 4-11-11, 11 lb down and 18 lb up at 4-11-11, and 233 lb down and 92 lb up at 7-9-10, and 211 lb down and 93 lb up at 7-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-D=-70, E-H=-20

Concentrated Loads (lb) Vert: K=34(B) M=-5(F) O=38(B) P=-4(F=-6, B=2) Q=-444(F=-233, B=-211)



November 27,2024



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



RELEASE FOR CONSTRUCTION GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

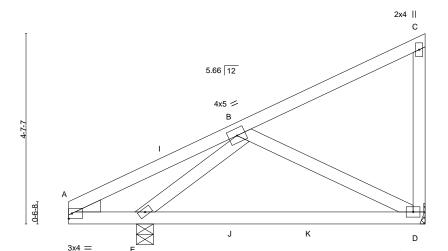
Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89-51 2024 Rage 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Ua7Gessr0m1FiEvk1nUwX_SQrV27 kkz142/14/NR2FETM

4-4-12

Qty

Scale = 1:28.0



1-7-12	1- ₁ 10 ₋ 4	8-7-14	
1-7-12	0-2-8	6-9-10	

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0							(/			_	
(Roof Snow=25.0)	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.20	D-E	>411	240	MT20	244/190
(Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.22	D-E	>372	180		
TCDL 10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	D	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI			x-MP	11012(01)	0.00		11/4	Π/α	Weight: 46 lb	FT = 20%
BCDL 10.0	Code IRC2016/1F1	12014	iviairi	X-IVIP						Weight. 46 ib	F1 = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

242042

Heartland Truss, Inc,

TOP CHORD 2x4 SP No.2 2x4 SP 1650F 1.5E **BOT CHORD**

WEBS 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) D=Mechanical, E=0-4-15

Max Horz E=151(LC 11)

Truss

Plattsburg, MO - 64477,

59

Truss Type

Diagonal Hip Girder

2x4 //

4-3-2

Max Uplift D=-222(LC 12), E=-203(LC 12) Max Grav D=526(LC 18), E=545(LC 18)

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

TOP CHORD A-B=-263/489

A-E=-349/278, D-E=-213/320 **BOT CHORD WEBS** B-D=-359/302, B-E=-508/364

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-0, Exterior(2R) 4-2-0 to 8-6-2 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=25.0 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=222, E=203
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 344 lb up at 4-0-6, and 104 lb down and 76 lb up at 4-0-6 on top chord, and 273 lb up at 4-0-6, 55 lb up at 4-0-6, and 99 lb down and 81 lb up at 5-11-0, and 195 lb down and 77 lb up at 5-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-C=-70, D-F=-20

Concentrated Loads (lb)

Vert: B=88(F) J=137(F=108, B=29) K=-294(F=-195, B=-99)



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

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

except end verticals.

November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

Jack-Closed

Heartland Truss, Inc, Plattsburg, MO - 64477,

60

242042

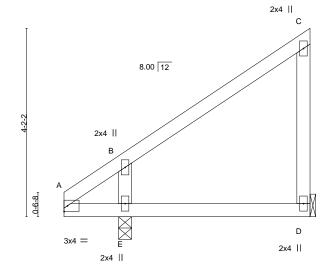
Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89 51 2024 Rago v ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-Ua7Gessr0m1FiEvk1n UwX_SUI_VXK_aluzy 42/10 Ray F2TV

LEE'S SUMMIT. MISSOURI

3

Scale = 1:25.5



1-2-8	1 ₇ 4 ₇ 4	5-5-7	1
1-2-8	0-1-12	4-1-3	1

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 25.0				0.40		in	(/					
(Roof Snow=25.0)	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.02	D-E	>999	240	MT20	244/190	
(Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	D-E	>999	180			
TCDL 10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	D	n/a	n/a			
BCLL 0.0	Code IRC2018/TF			x-MP	11012(01)	0.00		11/4	11/4	Weight: 25 lb	FT = 20%	
BCDL 10.0	Code IRC2016/1F	12014	IVIalii	Y-IAIL						vveignt. 25 ib	-1 = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SP No.3

D=Mechanical, E=0-3-8 (size)

Max Horz E=140(LC 11)

Max Uplift D=-64(LC 9), E=-18(LC 12) Max Grav D=239(LC 18), E=488(LC 18)

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

WEBS B-E=-478/243

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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 5-5-7 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 61 Jack-Open 3 Job Reference (optional)

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

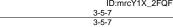
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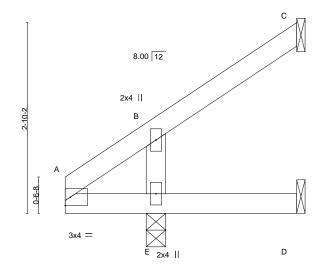
Structural wood sheathing directly applied or 3-5-7 oc purlins.

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

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Scale = 1:17.2





1-2-8	1 ₋ 4-4 0-1-12	3-5-7 2-1-3	-
1-2-0	0-1-12	Z-1-3	

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.0	(/	>999	240	MT20	244/190
(Roof Snow=25.0)							101120	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.0	0 D-E	>999	180		
	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.0	1 C	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MP	1.0.2(0.)		, a	, 🔾	Weight: 13 lb	FT = 20%
BCDL 10.0	Code IRC2016/1712014	IVIALITX-IVIP					Weight. 13 lb	FT = 20%

LUMBER-

REACTIONS.

Heartland Truss, Inc,

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3

> (size) C=Mechanical, D=Mechanical, E=0-3-8

Max Horz E=88(LC 12)

Max Uplift C=-55(LC 12), D=-12(LC 12)

Plattsburg, MO - 64477,

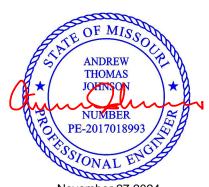
Max Grav C=76(LC 18), D=24(LC 5), E=364(LC 18)

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

WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
- 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.





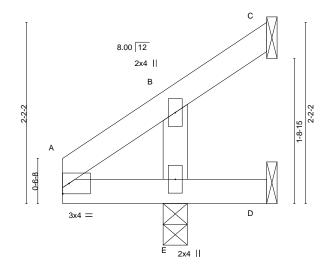
Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 62 Jack-Open 3 Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9

LEE'S SUMMIT. MISSOURI Wed Nov 27-97;89-52-2024 Rago vaU?93C?kb/ll/JUDa66kGvz/kyl[2]

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-ynhesCtTn496KOU vaU?93C?kb/lV

Scale = 1:13.8



1.00	1	1-6-0	2-5-7	
1-0-0 0-11-7		1-6-0	0-11-7	

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.13 BC 0.13	DEFL. Vert(LL) Vert(CT)	in 0.00 0.00	(loc) E F	I/defI >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.04 Matrix-MP	Horz(CT)	-0.01	Ċ	n/a	n/a	Weight: 10 lb	FT = 20%

LUMBER-

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

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-5-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) C=Mechanical, D=Mechanical, E=0-3-8 Max Horz E=62(LC 12)

Max Uplift C=-37(LC 12), D=-46(LC 18)

Max Grav C=14(LC 10), D=5(LC 8), E=339(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 63 Jack-Closed

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

LEE'S SUMMIT. MISSOURI

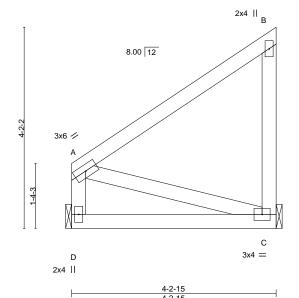
Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 07 89 53 2024 Rags 1

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_QzF03Xu5YOHzyY2 8CWOcFYned4h2gf15225V2vI2 K

4-2-15 4-2-15

Scale: 1/2"=1



LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.56 BC 0.19	DEFL. Vert(LL) -0.0 Vert(CT) -0.0		l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.05 Matrix-MP	Horz(CT) 0.0	00 C	n/a	n/a	Weight: 26 lb	FT = 20%

LUMBER-

Heartland Truss, Inc,

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

2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins,

except end verticals.

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

REACTIONS. (size) D=Mechanical, C=Mechanical

Max Horz D=141(LC 11)

Max Uplift D=-2(LC 12), C=-64(LC 9)

Plattsburg, MO - 64477,

Max Grav D=261(LC 18), C=261(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, C.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 64 Jack-Open

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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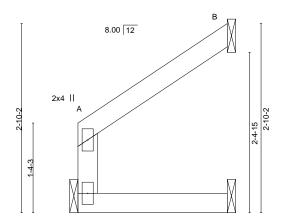
Structural wood sheathing directly applied or 2-2-15 oc purlins,

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

except end verticals.

2-2-15

Scale = 1:17.3



D С 2x4 || 2-2-15

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.17 BC 0.11	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc) I/defl C-D >999 C-D >999	L/d 240 180		RIP 44/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) -0.01	B n/a	n/a	Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

Heartland Truss, Inc,

Plattsburg, MO - 64477,

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

2x4 SP No.3

(size) D=Mechanical, B=Mechanical, C=Mechanical

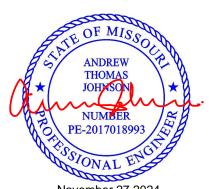
Max Horz D=53(LC 9) Max Uplift B=-53(LC 12), C=-5(LC 12)

Max Grav D=122(LC 18), B=96(LC 18), C=40(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, C.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 65 Jack-Closed Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Wed Nov 27-97:88

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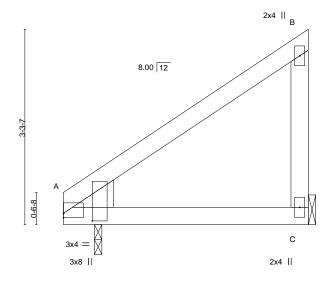


Plate Offsets (X,Y)-- [A:0-0-0,0-0-14], [A:0-1-9,0-5-13]

	1,1,,			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.30	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 C-H >999 240 MT20 244/190	
(Roof Snow=25.0) TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.22 WB 0.00	Vert(CT) -0.02 C-H >999 180	
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.01 A n/a n/a Weight: 19 lb FT = 20%	

3-7-3

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.1

REACTIONS. (size) C=Mechanical, A=0-1-8

Max Horz A=107(LC 11)

Max Uplift C=-49(LC 12), A=-11(LC 12) Max Grav C=223(LC 18), A=302(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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

0-6-4

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) A.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, A.
- 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 4-1-7 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 66 Jack-Open Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

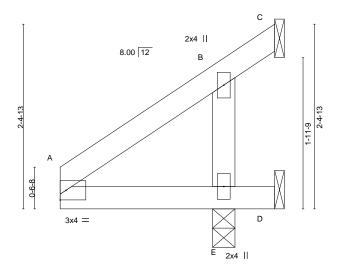
RELEASE FOR CONSTRUCTION

LEE'S SUMMIT. MISSOURI

8.730 s Oct 31 2024 MTek Industries, Inc. Wed Nov 27 97 6964 2021 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-v9oOHtvjJhPq<mark>, idJiv1d8d 4021Wh 6Pps2</mark>012/ 22

2-9-7

Scale = 1:15.0



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI **PLATES** GRIP (loc) L/d TCLL 25.0Plate Grip DOL Vert(LL) 0.00 240 244/190 1.15 TC 0.29 Ε >999 MT20 (Roof Snow=25.0) Lumber DOL 1.15 ВС 0.35 Vert(CT) 0.00 Ε >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.08 Horz(CT) -0.05 С n/a n/a **BCLL** 0.0

BRACING-

TOP CHORD

BOT CHORD

Matrix-MP

BCDL LUMBER-

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

10.0

2x4 SP No.3

REACTIONS. (size) C=Mechanical, D=Mechanical, E=0-3-8

Max Horz D=71(LC 12)

Max Uplift C=-189(LC 18), D=-244(LC 18)

Max Grav E=774(LC 18)

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

Code IRC2018/TPI2014

WEBS B-E=-412/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=189. D=244.
- 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.



Weight: 12 lb

Structural wood sheathing directly applied or 2-9-7 oc purlins.

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

FT = 20%



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 67 Jack-Closed Girder

Heartland Truss, Inc, Plattsburg, MO - 64477, Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Scale = 1:26.4

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27 97 895 4-9021 Rags ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-v9oOHtvjJhFqZidJiv1g8d4ftij0161VP321012V 22

5-0-0 5-0-0

Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.

2x4 || B 8.00 12 3x6 / F Ε 3x6 2x4 ||

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.98 BC 0.70	DEFL. Vert(LL) Vert(CT)	in -0.10 -0.16	(loc) C-D C-D	I/defI >567 >357	L/d 240 180	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.08 Matrix-MP	Horz(CT)	0.00	С	n/a	n/a	Weight: 31 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP No.3 WEBS

REACTIONS. (size) D=0-3-8, C=Mechanical

Max Horz D=160(LC 9) Max Uplift C=-75(LC 9)

Max Grav D=495(LC 18), C=490(LC 18)

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

TOP CHORD A-D=-273/82, B-C=-273/99

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down at 1-0-12, and 241 Ib down and 22 lb up at 3-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: A-B=-70, C-D=-20

Concentrated Loads (lb)

Vert: E=-103(B) F=-241(B)



November 27,2024



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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 68 Jack-Closed

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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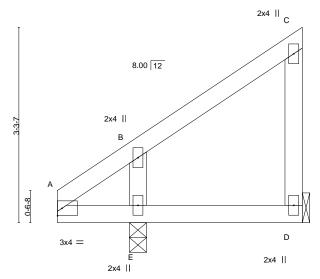
Structural wood sheathing directly applied or 4-1-7 oc purlins,

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

except end verticals.

4-1-7

Scale = 1:19.4



1-2-8	3 1	_T 4- ₁ 4	4-1-7
1-2-8	3 0-	· 1-12	2-9-3

LOADING (pst) SPACING- 2-0-0 CSI. DEFL. in (loc) //defl L/d PLATES	GRIP
1011 25.0	
	244/190
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 D n/a n/a	
RCH 00 1 Table 1 Tab	
BCDL 10.0 Code IRC2018/TPI2014 Matrix-MP Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Heartland Truss, Inc,

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

WEBS 2x4 SP No.3

> D=Mechanical, E=0-3-8 (size) Max Horz E=107(LC 11)

Max Uplift D=-58(LC 9), E=-14(LC 12) Max Grav D=127(LC 18), E=399(LC 18)

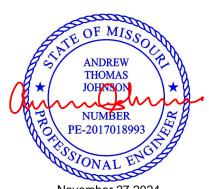
Plattsburg, MO - 64477,

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

WEBS B-E=-324/168

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 69 Jack-Closed 5 Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

FT = 20%

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

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

except end verticals.

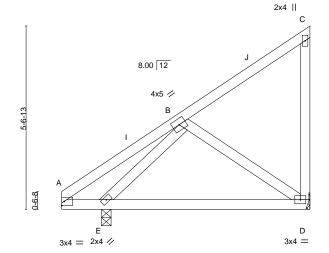
RELEASE FOR CONSTRUCTION

Wed Nov 27 97;89.55 2024 Rags VGcZshijd6s6jin WoZiiVZzwyF2 8.730 s Oct 31 2024 MiTek Industries, Inc.

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-NLMnUDvM4?XhBr CVGcZsh d666j

3-8-6 3-10-2

Scale = 1:35.0



			1-2-8 1-4-4 1-2-8 0-1-12	7-6-8 6-2-4		—		
25.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.05 D-E	>999	240	MT20

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) GRIP TCLL 25 244/190 (Roof Snow=25.0) 0.35 Vert(CT) Lumber DOL 1.15 ВС -0.09 D-E >810 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.00 D n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 44 lb **BCDL** 10.0

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

> (size) D=Mechanical, E=0-3-8

Max Horz E=193(LC 11)

Max Uplift D=-76(LC 9), E=-21(LC 12) Max Grav D=409(LC 18), E=493(LC 18)

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

BOT CHORD D-E=-112/263

WEBS B-D=-318/174, B-E=-383/187

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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.

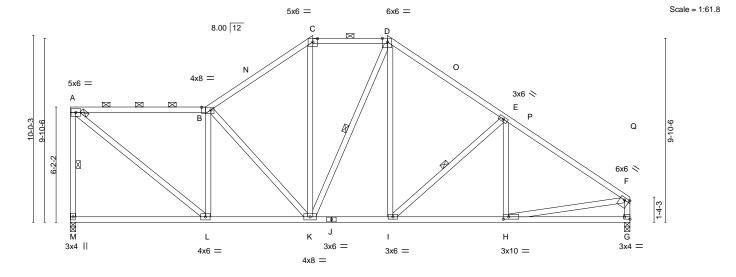




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 70 Roof Special LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97 88 Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-NLMnUDvM4?XhBr CVGcZsh rd1266 23-4-4 30 0-0 13-0-0 17-0-0 7-2-15 5-9-1 4-0-0 6-4-4



	7-2-15	13-0-0	17-0-0	23-4-4		30-0-0	
	7-2-15	5-9-1	4-0-0	6-4-4	'	6-7-12	
Plate Offsets (X,Y) [B	:0-6-0,0-1-12], [C:0-3-0,0-2-3], [D:0-	-3-5,Edge], [F:0-3-0,0-1-8],	[G:Edge,0-1-8], [H	H:0-3-8,0-1-8]			
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.95 BC 0.54 WB 0.82 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.10 H-l >999 -0.18 L-M >999 0.04 G n/a	L/d 240 180 n/a	PLATES MT20 Weight: 210 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP 1650F 1.5E *Except* TOP CHORD

A-B: 2x4 SP 2400F 2.0E, C-D: 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* A-M: 2x4 SP No.2

REACTIONS. (size) M=0-3-8, G=0-3-8

> Max Horz M=-315(LC 8) Max Uplift M=-146(LC 12), G=-114(LC 13)

Max Grav M=1574(LC 33), G=1878(LC 34)

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

TOP CHORD A-M=-1503/194, A-B=-1553/118, B-C=-1743/201, C-D=-1287/218, D-E=-1845/218, E-F=-2372/164, F-G=-1812/148

BOT CHORD L-M=-209/264, K-L=-66/1525, I-K=0/1320, H-I=-52/1827

WEBS A-L=-221/1982, B-L=-1109/236, B-K=-438/83, C-K=-48/415, D-I=-75/546, E-I=-664/207,

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 10-0-0, Exterior(2R) 10-0-0 to 20-0-0 , Interior(1) 20-0-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=146, G=114
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): A-B, C-D.

A-M, D-K, E-I

November 27,2024

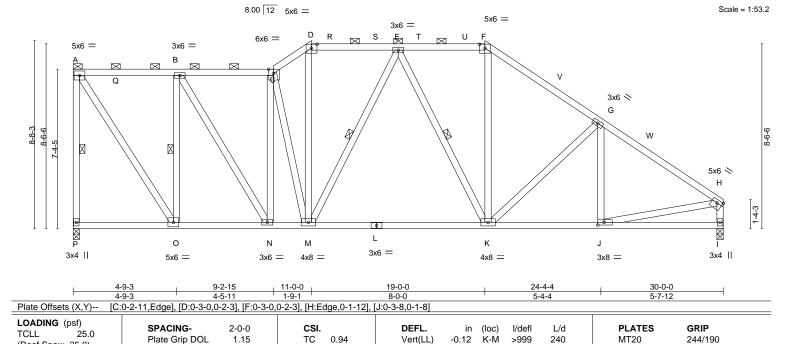


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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 71 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-rYw9hZw_qJfYp?nnpK45E2/ 19-0-0 4-9-3 4-5-11 1-9-1 4-0-0 4-0-0 5-4-4



LUMBER-

TCDL

BCLL

BCDL

(Roof Snow=25.0)

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 2x4 SP No.3 **WEBS**

10.0

0.0

BRACING-TOP CHORD

Vert(CT)

Horz(CT)

-0.26

0.05

Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-3 max.): A-C, D-F.

Weight: 234 lb

FT = 20%

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS A-P, B-O, E-M, E-K 1 Row at midpt

K-M

>999

n/a

180

n/a

REACTIONS. (size) P=0-3-8, I=0-3-8 Max Horz P=-295(LC 8)

Max Uplift P=-179(LC 8), I=-100(LC 13) Max Grav P=1890(LC 34), I=1685(LC 35)

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 A-P=-1847/192, A-B=-1061/87, B-C=-1557/111, C-D=-1785/151, D-E=-1469/144,

E-F=-1341/197, F-G=-1663/187, G-H=-2040/145, H-I=-1624/130

BOT CHORD O-P=-175/316, N-O=-115/1061, M-N=-99/1570, K-M=-77/1554, J-K=-50/1557

WEBS A-O=-195/1919, B-O=-1504/246, B-N=-151/942, C-N=-811/118, C-M=-411/85, D-M=-45/736,

1.15

YES

вС

WB

Matrix-MS

0.61

0.79

E-M=-337/113, E-K=-483/165, F-K=0/587, G-K=-491/180, H-J=-17/1407

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 9-2-15, Exterior(2R) 9-2-15 to 14-0-0 , Interior(1) 14-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 22-0-0, Interior(1) 22-0-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) P=179, I=100.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



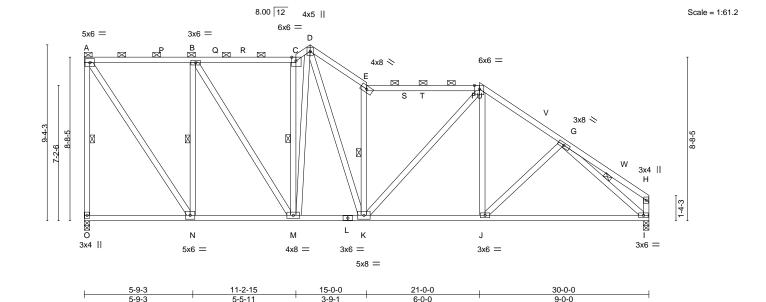
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 72 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-JkUXvvxcbcnPQ9MuN1bKmFiMpwII 21-0-0 25-4-4 30-0-0

6-0-0

3-0-0



[C:0-2-11,Edge], [F:0-3-5,Edge] LOADING (psf) SPACING-2-0-0 CSI. **TCLL** 25.0

Plate Grip DOL 1.15 TC 1.00 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.71 **TCDL** 10.0 Rep Stress Incr YES WB 0.76 **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS BCDL

DEFL (loc) I/defl L/d Vert(LL) -0.15 >999 240 I-J Vert(CT) -0.31I-J >999 180 Horz(CT) 0.05 n/a n/a

PLATES GRIP MT20 244/190

Weight: 237 lb FT = 20%

LUMBER-

Plate Offsets (X,Y)--

2x4 SP No.2 *Except* TOP CHORD

E-F: 2x4 SP 1650F 1.5E 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3 *Except*

A-O: 2x4 SP No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): A-C, E-F.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** A-O, B-N, C-M, E-K, G-I 1 Row at midpt

REACTIONS. (size) O=0-3-8, I=0-3-8

Max Horz O=-331(LC 8)

Max Uplift O=-171(LC 12), I=-156(LC 13) Max Grav O=1864(LC 36), I=1658(LC 37)

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

TOP CHORD A-O=-1812/190, A-B=-1031/142, B-C=-1384/205, C-D=-1748/257, D-E=-2161/334,

E-F=-1778/231, F-G=-1747/241, G-H=-346/68, H-I=-365/76

BOT CHORD N-O=-185/373, M-N=-80/1031, K-M=-22/1318, J-K=-31/1434, I-J=-141/1485 A-N=-195/1832, B-N=-1403/256, B-M=-137/752, C-M=-1309/164, D-M=-73/850, **WEBS**

5-5-11

D-K=-282/1411, E-K=-1654/306, F-K=-63/520, F-J=0/343, G-J=-252/220, G-I=-1785/189

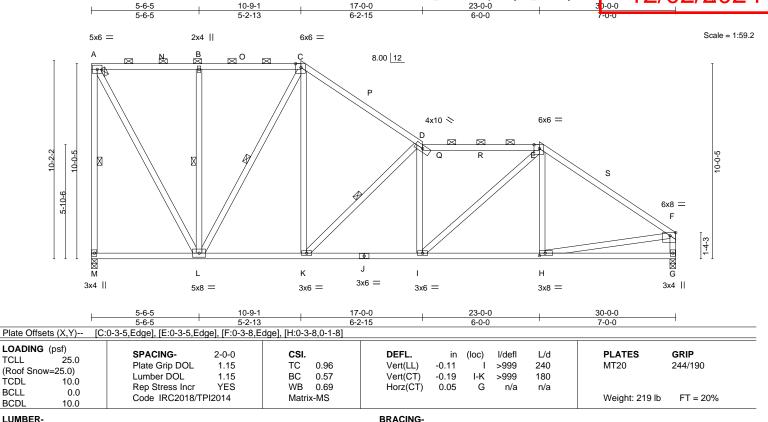
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 11-2-15, Exterior(2R) 11-2-15 to 12-0-0, Exterior(2E) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 24-0-0, Interior(1) 24-0-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=171. I=156.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 242042 73 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-nw2v6FyEMwvC2Jx4xl6ZJTFX5



TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP 2400F 2.0E *Except* TOP CHORD

A-C: 2x4 SP No.2, C-D: 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except*

A-M: 2x4 SP 1650F 1.5E, F-G: 2x4 SP No.2

REACTIONS. (size) M=0-3-8, G=0-3-8

Max Horz M=-367(LC 8)

Max Uplift M=-179(LC 8), G=-159(LC 13) Max Grav M=1799(LC 34), G=1638(LC 35)

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

TOP CHORD A-M=-1748/227, A-B=-821/152, B-C=-824/153, C-D=-1445/194, D-E=-2051/257,

E-F=-1958/206, F-G=-1572/194

BOT CHORD L-M=-197/442, K-L=-65/1121, I-K=-95/2040, H-I=-83/1470, G-H=-81/335 WEBS A-L=-234/1677, B-L=-798/180, C-L=-878/189, C-K=-106/953, D-K=-1243/262,

D-I=-413/98, E-I=-39/787, F-H=-38/1374

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 7-9-1, Exterior(2R) 7-9-1 to 13-9-1, Interior(1) 13-9-1 to 20-0-0, Exterior(2R) 20-0-0 to 26-0-0, Interior(1) 26-0-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=179, G=159.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

A-M, B-L, C-L, D-K

2-0-0 oc purlins (4-2-11 max.): A-C, D-E.

1 Row at midpt

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

November 27,2024



MARNING - 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 242042 74 Roof Special Girder

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 89-58-2024 Rago 1 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-nw2v6FyEMwvG2Jx4xl6Z_TF_vVg4igL2fipAgy[2] F

Job Reference (optional)

1-10-4 4-6-4 4-9-12

2x4 || D 5.66 12 3x6 / С 3x6 / В Ρ F 3x4 = 4x6 = 3x4 II 4x5 =

6-4-8 1-7-12 0-2-8 4-6-4

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d
TCLL 25.0				0.50		in	(/		
(Roof Snow=25.0)	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	E-F	>999	240
(Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.06	E-F	>999	180
TCDL 10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.00	F	n/a	n/a
BCLL 0.0	Code IRC2018/T		Matri		11012(01)	0.00	_	11/4	11/4
RCDI 10.0	Code IRC2016/11	P12014	iviatii	X-IVIO	1				

PLATES GRIP 244/190 MT20

> Weight: 72 lb FT = 20%

LEE'S SUMMIT. MISSOURI

Scale = 1:33.6

LUMBER-

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-9-0 oc purlins,

except end verticals.

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

G=0-4-15, E=0-3-8 REACTIONS. (size)

Max Horz G=187(LC 11) Max Uplift G=-178(LC 12), E=-325(LC 12) Max Grav G=907(LC 18), E=1350(LC 18)

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

TOP CHORD B-C=-999/309

BOT CHORD F-G=-202/252, E-F=-258/849

WEBS B-G=-878/369, B-F=-227/904, C-F=-156/508, C-E=-995/404

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 11-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=178, E=325,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 76 lb up at 4-2-13, and 97 lb down and 76 lb up at 4-2-13 on top chord, and 12 lb down and 22 lb up at 4-2-13, 12 lb down and 22 lb up at 4-2-13, 169 lb down and 90 lb up at 7-0-12, 169 lb down and 90 lb up at 7-0-12, and 344 lb down and 101 lb up at 9-10-11, and 344 lb down and 101 lb up at 9-10-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: A-D=-70, E-H=-20

Concentrated Loads (lb) Vert: O=-339(F=-169, B=-169) P=-688(F=-344, B=-344)



November 27,2024



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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 242042 75 Roof Special Girder LEE'S SUMMIT. MISSOURI Job Reference (optional) Wed Nov 27 97 89 59 2024 Rago 1 VGVSdorgopy0 REbBDJShjgyF2TE Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-F7cHKbzs7E17gTVGVSdorgopf0

4-9-12

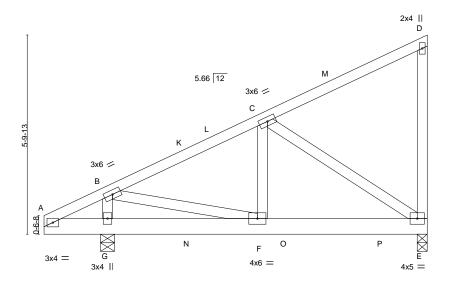
4-9-12

except end verticals.

Structural wood sheathing directly applied or 5-9-0 oc purlins,

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

4-6-4



LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. (loc) I/defl L/d TCLL 25.0E-F 244/190 Plate Grip DOL 1.15 TC 0.53 Vert(LL) -0.05 >999 240 MT20 (Roof Snow=25.0) Lumber DOL 1.15 ВС 0.63 Vert(CT) -0.06 E-F >999 180 **TCDL** 10.0 Rep Stress Incr NO WB 0.60 Horz(CT) 0.00 Ε n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 72 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

6-4-8

4-6-4

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No.2 2x6 SP No.1

BOT CHORD WEBS 2x4 SP No.3

> (size) G=0-4-15, E=0-3-8 Max Horz G=187(LC 11)

Max Uplift G=-178(LC 12), E=-325(LC 12) Max Grav G=907(LC 18), E=1350(LC 18)

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

TOP CHORD B-C=-999/309

BOT CHORD F-G=-202/252, E-F=-258/849

WEBS B-G=-878/369, B-F=-227/904, C-F=-156/508, C-E=-995/404

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 11-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1-10-4

1-7-12

1-7-12

1-10-4 0-2-8

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=178, E=325,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 76 lb up at 4-2-13, and 97 lb down and 76 lb up at 4-2-13 on top chord, and 12 lb down and 22 lb up at 4-2-13, 12 lb down and 22 lb up at 4-2-13, 169 lb down and 90 lb up at 7-0-12, 169 lb down and 90 lb up at 7-0-12, and 344 lb down and 101 lb up at 9-10-11, and 344 lb down and 101 lb up at 9-10-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: A-D=-70, E-H=-20

Concentrated Loads (lb) Vert: O=-339(F=-169, B=-169) P=-688(F=-344, B=-344)



Scale = 1:33.6

November 27,2024



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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 76 Monopitch

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3

Scale = 1:36.8

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. 8.730 s Oct 31 2024 MITek Industries, Inc. Wed Nov 27 97 82 59 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-F7cHKbzs7E17gTWGVSdorgangienklyF8tQShipyF2T

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

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

except end verticals.

3-11-2 4-0-14

2x4 || С 8.00 12 4x5 // В 9-9-0 D 3x4 = 2x4 /3x4 =

> 1-2-8 1-4-4 1-2-80-1-12 8-0-0

> > BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 (Roof Snow=25.0)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.66 BC 0.41	- ' '	in (loc -0.06 D-E -0.12 D-E	l/defl >999 >657	L/d 240 180	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.16 Matrix-MP	Horz(CT)	0.00	n/a	n/a	Weight: 47 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

Heartland Truss, Inc,

Plattsburg, MO - 64477,

REACTIONS. (size) D=0-3-8, E=0-3-8

Max Horz E=205(LC 11)

Max Uplift D=-93(LC 12), E=-25(LC 12) Max Grav D=437(LC 18), E=506(LC 18)

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

BOT CHORD D-E=-117/299

WFBS B-D=-342/208, B-E=-385/204

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-10-4, Exterior(2E) 4-10-4 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 77 Jack-Closed Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

RELEASE FOR CONSTRUCTION

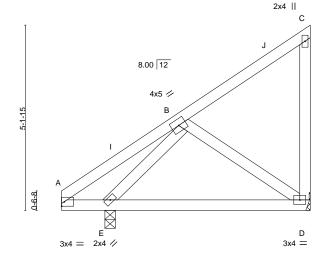
LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc.
Wed Nov 27 97 80 59 2024 Rags
ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-F7cHKbzs7E17gTV GVSdorgogleCoR NH BDJShi2/F2T

6-11-3 3-4-12 3-6-7

Scale: 3/8"=1



₁ 1-2-8 ₁	6-11-3	1
1-2-8	5-8-11	

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1: Lumber DOL 1.1:	TC 0.49 BC 0.28	DEFL. Vert(LL) Vert(CT)	in -0.03 -0.06	(loc) D-E D-E	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0	Rep Stress Incr YES Code IRC2018/TPI2014		Horz(CT)	0.00	D	n/a	n/a	Weight: 40 lb	FT = 20%
BCDI 10.0	Code IRC2018/1712014	Matrix-MP						vveignt: 40 ib	F1 = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. D=Mechanical, E=0-3-8 (size)

Max Horz E=178(LC 11)

Max Uplift D=-75(LC 12), E=-17(LC 12) Max Grav D=369(LC 18), E=478(LC 18)

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

WEBS B-D=-284/163, B-E=-378/174

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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 6-0-0 oc bracing.

except end verticals.



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 78 Jack-Closed LEE'S SUMMIT. MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc.

Wed Nov 27-97/40-00-2024 Rags 1
ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_iJAgXxzUuX9_Id5T2A810 K267/8[Adv]22QK26/12 D

Structural wood sheathing directly applied or 4-11-3 oc purlins,

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

Scale = 1:22.0

4-11-3

2x4 || C 8.00 12 2x4 || В 8-9-0 D

> 4-11-3 0-1-12 3-6-15

> > BRACING-

TOP CHORD

BOT CHORD

2x4 ||

except end verticals.

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	:	(100)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	SPACING- 2-0-0	Col.	DEFL.	In	(loc)	ı/aeıi	L/a	PLATES	GRIP
	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	0.01	D-E	>999	240	MT20	244/190
(Roof Snow=25.0)	·		/					101120	211/100
(Lumber DOL 1.15	BC 0.20	Vert(CT)	-0.02	D-E	>999	180		
TCDL 10.0	Rep Stress Incr YES	WD 0.00	LIA(CT)	0.00	_ D	-/-	-/-		
BCLL 0.0		WB 0.08	Horz(CT)	0.00	D	n/a	n/a		
DOLL 0.0	Code IRC2018/TPI2014	Matrix-MP	1					Weight: 23 lb	FT = 20%
BCDI 10.0	Code 11(C2010/11 12014	IVIALITA-IVII						Weight. 25 ib	11 = 2070

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> D=Mechanical, E=0-3-8 (size)

Max Horz E=127(LC 11)

Max Uplift D=-62(LC 9), E=-16(LC 12) Max Grav D=198(LC 18), E=455(LC 18)

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

WEBS B-E=-417/211

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3x4 =

2x4 -11

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 79 Jack-Open Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

1-2-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6

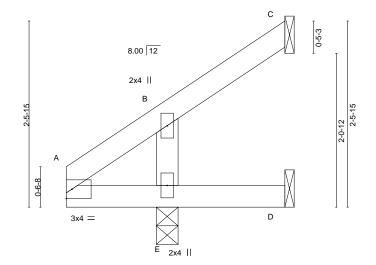
LEE'S SUMMIT. MISSOURI

Wed Nov 27-97 46-00 202 2A81Oul 4B/UUAr JJ820

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2-11-3

Scale = 1:15.5



		1-2-8 0-1-1	12 1-6-15	ı			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. in Vert(LL) 0.00	(loc) I/def		PLATES GR MT20 244	I P /190
(Roof Snow=25.0) TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.00	D-E >999	180		
BCLL 0.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.05 Matrix-MP	Horz(CT) -0.01	C n/a	ı n/a	Weight: 11 lb	FT = 20%

1-4-4

2-11-3

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

2x4 SP No.3

(size) C=Mechanical, D=Mechanical, E=0-3-8 Max Horz E=74(LC 12)

Max Uplift C=-46(LC 12), D=-21(LC 18)

Max Grav C=40(LC 18), D=14(LC 10), E=342(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
- 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.



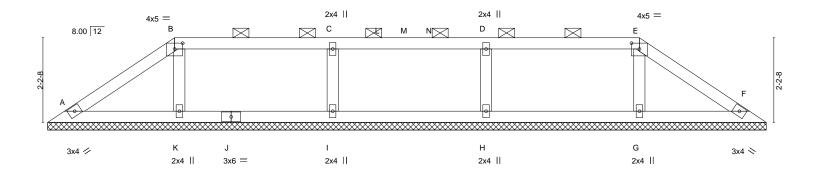
Structural wood sheathing directly applied or 2-11-3 oc purlins.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 80 Valley LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Now 27 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-BVj2IG_7frHqvngfctfG (5tPo)

Scale = 1:30.0



12-1-8

-			18-8-15 18-8-15						
Plate Offsets (X,Y) [B:0)-2-8,0-1-13], [E:0-2-8,0-1-13]]							
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL 1. Lumber DOL 1.	0-0 CSI. .15 TC .15 BC ES WB	0.43 Vert(L 0.11 Vert(C 0.11 Horz(x-S	∟) n/a T) n/a	(loc) - - F	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 66 lb	GRIP 244/190 FT = 20%

LUMBER-BRACING-

Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

2-0-0 oc purlins (6-0-0 max.): B-E.

OTHERS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-8-15.

3-3-11

Max Horz A=-47(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) A, F, G, H, I, K

Max Grav All reactions 250 lb or less at joint(s) A, F except G=355(LC 31), H=618(LC 31), I=631(LC 31), K=353(LC 31)

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

WEBS E-G=-279/86, D-H=-537/117, C-I=-550/119, B-K=-276/95

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-3-11, Exterior(2R) 3-3-11 to 7-5-3, Interior(1) 7-5-3 to 11-2-5, Exterior(2R) 11-2-5 to 15-5-3, Exterior(2E) 15-5-3 to 18-3-2 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, F, G, H, I, K.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



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

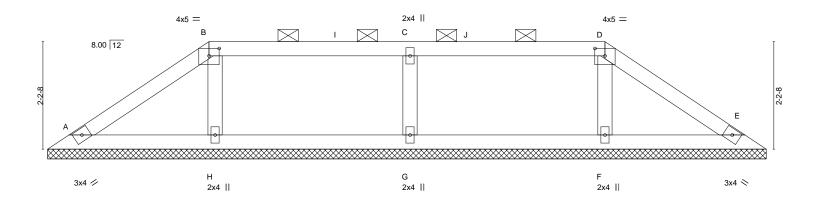
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 81 Valley LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 49 01 2024 R ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_BVj2IG_7frHqvngfctfGx5 ABAgb (H) Backtory Heartland Truss, Inc, Plattsburg, MO - 64477, 14-8-15 3-3-11 8-1-8

Scale = 1:23.6

RELEASE FOR CONSTRUCTION



			14-8-15	
Plate Offsets (X,Y) [B	:0-2-8,0-1-13], [D:0-2-8,0-1-13]			
TCLL 25.0 (Roof Snow=25.0) 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 0.51 BC 0.11 WB 0.13 Matrix-S	Vert(LL) n/a - n/a 9 Vert(CT) n/a - n/a 9	PLATES GRIP 199 MT20 244/190 199 n/a Weight: 52 lb FT = 20%

14-8-15

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

BOT CHORD 2x4 SP No.2 2-0-0 oc purlins (6-0-0 max.): B-D.

OTHERS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-8-15.

Max Horz A=-47(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) A, E, F, G, H

Max Grav All reactions 250 lb or less at joint(s) A, E except F=337(LC 31), G=685(LC 31), H=339(LC 31)

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

D-F=-261/88, C-G=-603/129, B-H=-263/96 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-3-11, Exterior(2R) 3-3-11 to 11-5-3, Exterior(2E) 11-5-3 to 14-3-2 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=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E, F, G, H.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 27,2024



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

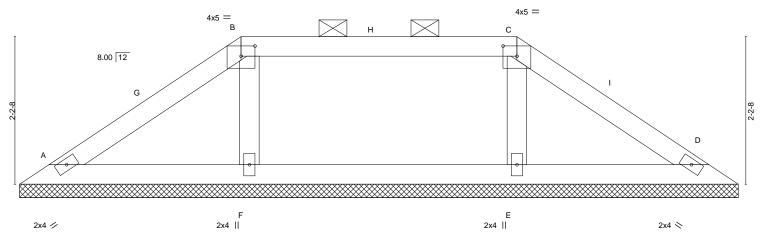


RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 82 Valley Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-giHQyc?lQ9PhXwE AbBVTJQI

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Wed Nov 27-97

Scale = 1:17.2



4-1-8

			10-8-15	1
Plate Offsets (X,Y) [B	:0-2-8,0-1-13], [C:0-2-8,0-1-13]			
TCLL 25.0 (Roof Snow=25.0) 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 0.50 BC 0.10 WB 0.07 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 D n/a n/a	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%

10-8-15

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

2-0-0 oc purlins (6-0-0 max.): B-C. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 10-8-15. Max Horz A=-47(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) A, D, E, F

Max Grav All reactions 250 lb or less at joint(s) A, D except E=406(LC 19), F=395(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. C-E=-324/100, B-F=-312/96 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-3-11, Exterior(2R) 3-3-11 to 7-5-3, Exterior(2E) 7-5-3 to 10-3-2 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=25.0 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.

3-3-11

- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, D, E, F.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 242042 83 Valley LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97:46 Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-giHQyc?IQ9PhXwErAbBVTJQQxA 3-3-11 3-3-11

4x5 =

В 8.00 12 C D 2x4 // 2x4 || 2x4 💸

Plate Offsets (X,Y) [B:	:0-2-4,Edge]								
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.27 BC 0.09 WB 0.03 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - C	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

(size) A=6-8-15, C=6-8-15, D=6-8-15 Max Horz A=-48(LC 8)

Max Uplift A=-28(LC 12), C=-35(LC 13)

Max Grav A=197(LC 18), C=192(LC 19), D=238(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
- 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.

Scale = 1:15.6



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 84 Jack-Open Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

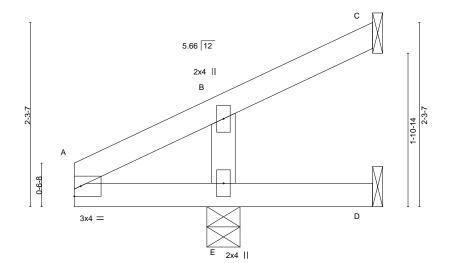
RELEASE FOR CONSTRUCTION

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Structural wood sheathing directly applied or 3-8-7 oc purlins.

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

Scale = 1:14.3



		1-7-12 b-	-2-8	1-10-4		
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.25 BC 0.22 WB 0.06 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.00 D-E 0.00 D-E -0.03 C	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-8-7

1-10-4

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size)

Max Horz E=67(LC 12) Max Uplift C=-36(LC 12), D=-37(LC 18), E=-15(LC 12) Max Grav C=29(LC 18), D=8(LC 8), E=460(LC 18)

C=Mechanical, D=Mechanical, E=0-4-15

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

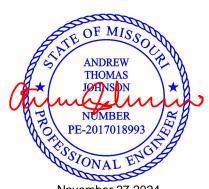
WEBS B-E=-307/158

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=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

1-7-12

- 2) TCLL: ASCE 7-16; Pf=25.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D, E.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 27,2024



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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 242042 85 Piggyback 3 LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nor 27-97 49 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-8uro9y0NBSXY94ptklik0WySHLXGN8 Heartland Truss, Inc, Plattsburg, MO - 64477, 11-11-15 6-0-0 6-0-0 6-0-0

4x5 =

C 8.00 12 G $^{\mathsf{D}}\mathsf{E}$ 0-1-10 3x4 / 3x4 <> 2x4 || 11-11-15 11-11-15 Plate Offsets (X,Y)--[B:0-2-0,0-1-8], [D:0-2-0,0-1-8]

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. (size) B=10-5-11, D=10-5-11, F=10-5-11

Max Horz B=-95(LC 10)

Max Uplift B=-50(LC 12), D=-62(LC 13), F=-15(LC 12) Max Grav B=393(LC 19), D=393(LC 20), F=505(LC 20)

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

WEBS C-F=-332/102

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Exterior(2R) 3-3-2 to 8-8-13, Exterior(2E) 8-8-13 to 11-8-13 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D, F.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Scale = 1:24.8



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 86 Piggyback LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 49 03 2024 Rags
ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-8uro9y0NBSXY94 02klik0W Z625 NBJkgKQ syl[2] Heartland Truss, Inc, Plattsburg, MO - 64477,

11-11 15 4-0-0 4-0-0 4-0-

3x6 / 2x4 || 3x6 × С DX 8.00 12 G

11-11-15 11-11-15 Plate Offsets (X,Y)--[C:0-3-0,0-0-2], [E:0-3-0,0-0-2] LOADING (psf) SPACING-CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.01 Ġ 120 244/190 n/r MT20 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.27 Vert(CT) -0.00 G n/r 90 **TCDL** 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20%Matrix-S Weight: 39 lb

TOP CHORD

2x4 ||

LUMBER-BRACING-

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

2-0-0 oc purlins (6-0-0 max.): C-E. **OTHERS** 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=10-5-11, F=10-5-11, H=10-5-11

Max Horz B=-63(LC 10)

Max Uplift B=-78(LC 12), F=-80(LC 13)

Max Grav B=545(LC 33), F=545(LC 33), H=441(LC 32)

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

TOP CHORD B-C=-550/151, C-D=-356/160, D-E=-356/160, E-F=-550/151

BOT CHORD B-H=-49/356, F-H=-49/356

3x4 =

WFBS D-H=-312/70

10.0

NOTES-

BCDL

0-1-10

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Exterior(2R) 3-3-2 to 8-8-13, Exterior(2E) 8-8-13 to 11-8-13 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



3x4 =

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

Scale = 1:20.5

November 27,2024



MARNING - 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



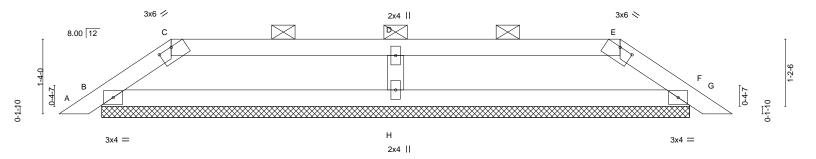
Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 242042 87 Piggyback LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97/49/04-2024-Ram ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-c4PANI0?ymgPmEOEH?DzYk\gTv6F6tk\vva/Qvv\27-97/20 Heartland Truss, Inc, Plattsburg, MO - 64477, 11-11-15

9-11-15

8-0-0

Scale = 1:20.5

RELEASE FOR CONSTRUCTION



11-11-15 11-11-15 Plate Offsets (X,Y)--[C:0-3-0,0-0-2], [E:0-3-0,0-0-2] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defI L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.00 Ġ 120 244/190 n/r MT20 (Roof Snow=25.0) Lumber DOL 1.15 BC 0.26 Vert(CT) -0.00 G n/r 90 **TCDL** 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20%Matrix-S Weight: 36 lb BCDL 10.0

LUMBER-**BRACING-**TOP CHORD

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

WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=10-5-11, F=10-5-11, H=10-5-11

Max Horz B=-30(LC 10)

Max Uplift B=-58(LC 12), F=-58(LC 13), H=-57(LC 9) Max Grav B=319(LC 33), F=319(LC 33), H=727(LC 32)

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

TOP CHORD B-C=-444/117, C-D=-369/106, D-E=-369/106, E-F=-444/117

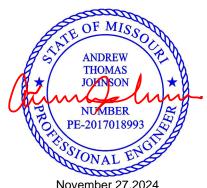
BOT CHORD B-H=-57/369, F-H=-57/369

2-0-0

WFBS D-H=-603/156

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 2-0-0, Exterior(2R) 2-0-0 to 9-11-15, Exterior(2E) 9-11-15 to 11-8-13 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F, H.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): C-E.

November 27,2024



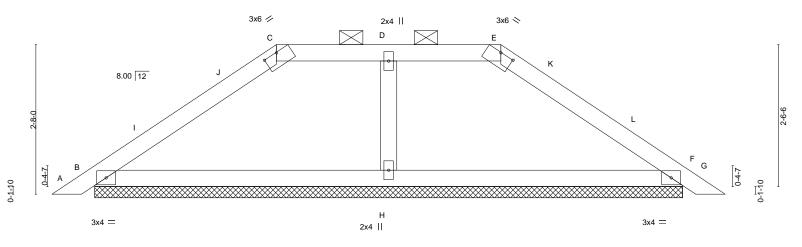
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 88 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 40 94 2024 Rags Heartland Truss, Inc, Plattsburg, MO - 64477, ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-c4PANI0?ymgPmEOEH?DzYk/ks/ko36t7 NyA 11-11 15 4-0-0 4-0-0 4-0-

Scale = 1:20.5



		11	-11-15	
Plate Offsets (X,Y) [C	:0-3-0,0-0-2], [E:0-3-0,0-0-2]			
COADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.30 BC 0.27 WB 0.07 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 G n/r 120 Vert(CT) -0.00 G n/r 90 Horz(CT) 0.01 F n/a n/a	PLATES GRIP MT20 244/190 Weight: 39 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

11-11-15

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.3

(size) B=10-5-11, F=10-5-11, H=10-5-11

Max Horz B=-63(LC 10)

Max Uplift B=-78(LC 12), F=-80(LC 13)

Max Grav B=545(LC 33), F=545(LC 33), H=441(LC 32)

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

TOP CHORD B-C=-550/151, C-D=-356/160, D-E=-356/160, E-F=-550/151

BOT CHORD B-H=-49/356, F-H=-49/356 WFBS

D-H=-312/70

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Exterior(2R) 3-3-2 to 8-8-13, Exterior(2E) 8-8-13 to 11-8-13 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): C-E.

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

November 27,2024

MARNING - 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



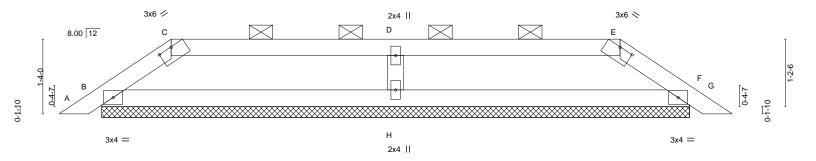
Job Truss Truss Type Qty GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 242042 89 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27-97:48 ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-4HzZae1dj4oGOQzQrjkC5x2rD88

8-0-0

Scale = 1:20.5

RELEASE FOR CONSTRUCTION

11-11-15



11-11-15 Plate Offsets (X,Y)--[C:0-3-0,0-0-2], [E:0-3-0,0-0-2] LOADING (psf) SPACING-CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.00 Ġ 120 244/190 n/r MT20 (Roof Snow=25.0) Lumber DOL 1.15 BC 0.26 Vert(CT) -0.00 G n/r 90 **TCDL** 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20%Matrix-S Weight: 36 lb BCDL 10.0

TOP CHORD

BOT CHORD

11-11-15

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) B=10-5-11, F=10-5-11, H=10-5-11

2-0-0

Max Horz B=-30(LC 10)

Max Uplift B=-58(LC 12), F=-58(LC 13), H=-57(LC 9) Max Grav B=319(LC 33), F=319(LC 33), H=727(LC 32)

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

TOP CHORD B-C=-444/117, C-D=-369/106, D-E=-369/106, E-F=-444/117

BOT CHORD B-H=-57/369, F-H=-57/369

WFBS D-H=-603/156

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 2-0-0, Exterior(2R) 2-0-0 to 10-0-0, Exterior(2E) 10-0-0 to 11-8-13 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=25.0 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 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F, H. 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): C-E.

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

November 27,2024



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



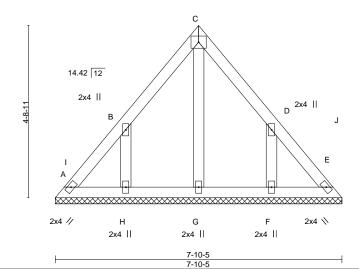
Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 LAY01 **GABLE** Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI Wed Nov 27

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-4HzZae1dj4oGOOzQrjkC5x2yY8C 7-10-5 3-11-3 3-11-3

> Scale = 1:31.6 4x5 =



LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI (loc) I/defI L/d TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 244/190 0.12 n/a n/a 999 MT20 (Roof Snow=25.0) Lumber DOL 1.15 ВС 0.03 Vert(CT) 999 n/a n/a **TCDL** 10.0 Horz(CT) Rep Stress Incr YES WB 0.07 0.00 Ε n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 40 lb FT = 20% **BCDL** 10.0

BRACING-

LUMBER-

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 7-10-5.

Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-163(LC 12), F=-162(LC 13) Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=318(LC 18), F=318(LC 19)

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

B-H=-277/187, D-F=-277/187 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Exterior(2R) 3-3-12 to 4-6-10, Exterior(2E) 4-6-10 to 7-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=163, F=162,
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO LAY02 242042 Lay-In Gable Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

Scale = 1:14.5

Wed Nov 27-97:48

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-YTXxo_2FUNw70YYCPQFRd917sYY 1-11-3 1-11-3

_B4x5 = 14.42 12 С

D 2x4 📏 2x4 // 2x4 ||

3-10-5

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.01	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	0.00	Ü	11/4	11/4	Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-5 oc purlins.

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

REACTIONS. A=3-10-5, C=3-10-5, D=3-10-5 (size)

Max Horz A=-51(LC 8) Max Uplift A=-24(LC 13), C=-19(LC 12)

Max Grav A=123(LC 18), C=123(LC 19), D=105(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
- 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.





Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 LAY03 **GABLE** Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

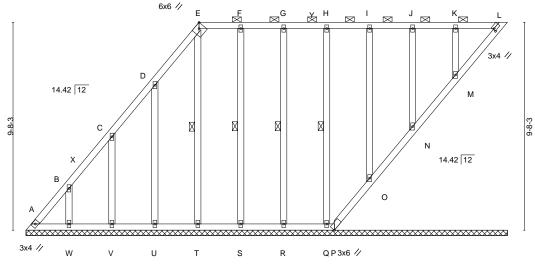
RELEASE FOR CONSTRUCTION

Wed Nov 27 97;46:06 2024 Ra PQFRd9 6 75 U A vieSMy

8.730 s Oct 31 2024 MiTek Industries, Inc. ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-YTXxo_2FUNw70YY_PQFRd9a6_/Y 22-5-0

8-0-11 14-4-5

Scale = 1:53.6



22-5-0 14-4-5

Plate Offsets (X,Y) [E:0	0-2-11,Edge], [L:0-0-11,0-1-8]					
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.14 BC 0.04 WB 0.30 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 L	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/190 Weight: 173 lb FT = 20%
BCDL 10.0						3

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

(lb) -

2x4 SP No.2 **OTHERS** 2x4 SP No.3

> All bearings 22-5-0. Max Horz A=365(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) A, L, P, S, R, Q, O, N, M except W=-146(LC 12), V=-140(LC 12),

U=-156(LC 12)

Max Grav All reactions 250 lb or less at joint(s) L, P, T except A=315(LC 12), W=342(LC 29), V=326(LC 29),

 $U=358(LC\ 29),\ S=346(LC\ 28),\ R=334(LC\ 28),\ Q=323(LC\ 28),\ O=336(LC\ 28),\ N=318(LC\ 28),\ M=388(LC\ 28)$

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

TOP CHORD A-B=-424/326, B-C=-283/214 **WEBS**

B-W=-292/163, C-V=-288/165, D-U=-318/180, F-S=-306/59, G-R=-293/55, H-Q=-290/53,

I-O=-295/54, J-N=-282/52, K-M=-333/60

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-0-11, Exterior(2R) 5-0-11 to 11-0-11, Interior(1) 11-0-11 to 19-1-4, Exterior(2E) 19-1-4 to 22-1-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, L, P, S, R, Q, O N, M except (it=lb) W=146, V=140, U=156.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) L, O, N, M.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

E-T, F-S, G-R, H-Q

2-0-0 oc purlins (6-0-0 max.): E-L.

1 Row at midpt

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

November 27,2024



MARNING - 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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 LAY04 **GABLE** Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Not 27 97 40 07 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-0f5J?K3tFh2_di7pz8mgAM7112ugJtBk3ZQC2gy 27

9-11-3 6-8-3

> 4x5 = Scale = 1:74.0

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

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

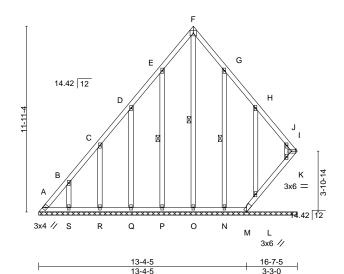


Plate Offsets (X,Y)--[J:Edge,0-1-8] LOADING (psf) SPACING-CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) 999 MT20 244/190 n/a n/a (Roof Snow=25.0) Lumber DOL 1.15 BC 0.06 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 138 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3

6-0-0 oc bracing: J-K. **WEBS** F-O, E-P, G-N 1 Row at midpt

REACTIONS. All bearings 16-7-5.

Heartland Truss, Inc,

Plattsburg, MO - 64477,

(lb) -Max Horz A=287(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) except A=-156(LC 10), J=-258(LC 11), M=-227(LC 13), P=-140(LC

12), Q=-146(LC 12), R=-142(LC 12), S=-143(LC 12), N=-142(LC 13), L=-133(LC 13), K=-121(LC 13)

Max Grav All reactions 250 lb or less at joint(s) M, O, Q, R, S, L, K except A=356(LC 12), J=444(LC 13),

P=329(LC 18), N=325(LC 19)

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

TOP CHORD A-B=-475/329, B-C=-338/214, I-J=-294/195 **BOT CHORD** L-M=-175/299, K-L=-184/286, J-K=-183/273

WEBS E-P=-289/164, G-N=-288/162

NOTES-

BCDL

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 6-11-3, Exterior(2R) 6-11-3 to 12-11-3, Interior(1) 12-11-3 to 13-5-1, Exterior(2E) 13-5-1 to 16-5-1 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=25.0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint A, 258 lb uplift at joint J, 227 lb uplift at joint M, 140 lb uplift at joint P, 146 lb uplift at joint Q, 142 lb uplift at joint R, 143 lb uplift at joint S, 142 lb uplift at joint N, 133 lb uplift at joint L and 121 lb uplift at joint K.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) J, L, K.
- 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



November 27,2024



MARNING - 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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 LAY05 **GABLE**

Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed No. 27 97 49 98 2024 Rags ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-UsfhDg3W0?ArFri?WrlvjaThMDg2P9TMDs1X_/ 22

17-10-5 10-2-3 7-8-3

4x5 =

Scale = 1:74.0

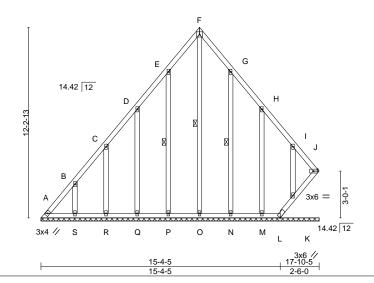


Plate Offsets	(X,Y))	J:Edge,0-1-8]	

Heartland Truss, Inc,

Plattsburg, MO - 64477,

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.12 BC 0.08 WB 0.19 Matrix S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.01	(loc) - - J	l/defl n/a n/a n/a	L/d 999 999 n/a	MT20 24	RIP 14/190
BCDL 10.0	Code IRC2018/1PI2014	Matrix-S						Weight: 149 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt

F-O, E-P, G-N

REACTIONS. All bearings 17-10-5

Max Horz A=299(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except A=-156(LC 10), J=-226(LC 11), L=-262(LC 13), P=-139(LC

12), Q=-147(LC 12), R=-139(LC 12), S=-155(LC 12), N=-136(LC 13), M=-155(LC 13), K=-126(LC 13)

Max Grav All reactions 250 lb or less at joint(s) L, O, Q, R, S, M, K except A=353(LC 12), J=474(LC 13),

P=328(LC 18), N=329(LC 19)

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

TOP CHORD A-B=-475/320, B-C=-325/207, I-J=-294/191

BOT CHORD K-L=-221/350, J-K=-227/342 **WEBS** E-P=-289/163, G-N=-288/161

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 7-2-3, Exterior(2R) 7-2-3 to 13-2-3, Interior(1) 13-2-3 to 14-8-1, Exterior(2E) 14-8-1 to 17-8-1 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=25.0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint A, 226 lb uplift at joint J, 262 lb uplift at joint L, 139 lb uplift at joint P, 147 lb uplift at joint Q, 139 lb uplift at joint R, 155 lb uplift at joint S, 136 lb uplift at joint N, 155 lb uplift at joint M and 126 lb uplift at joint K.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) J, K.
- 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.





Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROO 242042 LAY06 **GABLE**

DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 97 40 08 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-UsfhDg3W0?ArF i?Wrlvjaf swc72QFTxDblXy 2

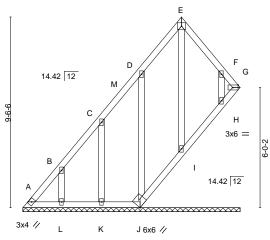
RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

10-10-5 7-11-3 2-11-3

> 4x5 = Scale = 1:57.6

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



1	5-10-5	10-10-5
	5-10-5	5-0-0

Plate Offsets (X,Y) [G:	Edge,0-1-8]							
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.11 BC 0.04 WB 0.19 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a 0.00	oc) I/de - n/ - n/ G n/	a 999 a 999	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%

LUMBER-BRACING-TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2x4 SP No.3 6-0-0 oc bracing: G-H

REACTIONS. All bearings 10-10-5

Heartland Truss, Inc,

Plattsburg, MO - 64477,

(lb) -Max Horz A=284(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except A=-103(LC 10), G=-104(LC 9), J=-129(LC 12), K=-143(LC

12), L=-143(LC 12), H=-127(LC 13)

Max Grav All reactions 250 lb or less at joint(s) G, J, I, K, L except A=278(LC 12), H=284(LC 19)

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

TOP CHORD A-B=-374/288 WEBS F-H=-251/145

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 4-11-3, Exterior(2R) 4-11-3 to 7-11-3 , Exterior(2E) 7-11-3 to 10-8-1 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=25.0 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint A, 104 lb uplift at joint G, 129 lb uplift at joint J, 143 lb uplift at joint K, 143 lb uplift at joint L and 127 lb uplift at joint H.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) G, I, H.
- 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.



November 27,2024



MARNING - 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



Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROO 242042 LAY07 **GABLE** Job Reference (optional)

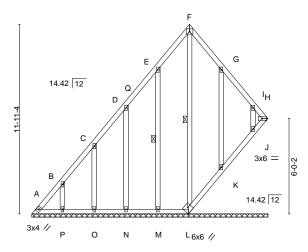
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 27 37 42 09 2024 Rage ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-y2C3Q048nllit_HB4Zp8FnC2R\range(1,5)p2\range(1,5)p2\range(1,2)\range(1,2

14-10-5 9-11-3 4-11-3

4x5 = Scale = 1:72.5



9-10-5 14-10-5

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

Heartland Truss, Inc,

Plattsburg, MO - 64477,

TCLL 25.0 (Roof Snow=25.0) 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 0.05 WB 0.23	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.01	(loc) I - - I	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 121 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt F-L, E-M

REACTIONS. All bearings 14-10-5

(lb) -Max Horz A=324(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) L except A=-149(LC 10), I=-172(LC 11), M=-141(LC 12),

N=-146(LC 12), O=-142(LC 12), P=-143(LC 12), K=-141(LC 13), J=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) L, N, O, P, J except A=366(LC 12), I=273(LC 13), M=325(LC

18), K=336(LC 19)

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

TOP CHORD A-B=-489/355, B-C=-351/239 **WEBS** E-M=-284/165, G-K=-291/170

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 6-11-3, Exterior(2R) 6-11-3 to 11-11-3, Exterior(2E) 11-11-3 to 14-8-1 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=25.0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L except (jt=lb) A=149, I=172, M=141, N=146, O=142, P=143, K=141, J=125.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) I, K, J.
- 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.



November 27,2024



MARNING - 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



Job Truss Truss Type Qty GENE BOSLEY RES. / ROO 242042 LAY08 **GABLE** Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477, 8.730 s Oct 31 2024 MiTek Industries, Inc.

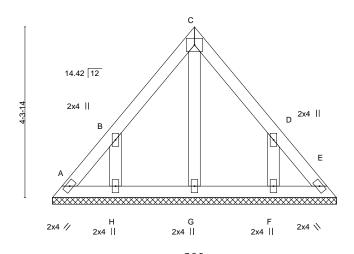
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

LEE'S SUMMIT, MISSOURI

Wed Nov 27-97:46:

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-y2C3Q048nIlit HB4Zp8FnCdrl 7-2-5 3-7-3

> Scale = 1:29.2 4x5 =



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 DEFL. CSI TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 0.10 (Roof Snow=25.0) Lumber DOL 1.15 ВС 0.03 **TCDL** 10.0

YES

I/defI L/d (loc) 999 n/a n/a Vert(CT) 999 n/a n/a Horz(CT) 0.00 Ε n/a n/a **PLATES** GRIP 244/190 MT20

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

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

Weight: 36 lb FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

2x4 SP No.3 All bearings 7-2-5.

Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-153(LC 12), F=-152(LC 13) Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=294(LC 18), F=294(LC 19)

WB

Matrix-P

0.06

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

Rep Stress Incr

Code IRC2018/TPI2014

B-H=-257/174, D-F=-257/174 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=153, F=152,
- 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.





RELEASE FOR CONSTRUCTION

GENE BOSLEY RES. / ROO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.730 s Oct 31 2024 MiTek Industries, Inc. Wed Not 27 97 49 (0.2021 Rage ID:mrcY1X_2FQF1Xm9hhpx4TmyPVI_-REmSdL5mXcQZU9sCaGKNo?id594iyWHJmXgsb_yid2

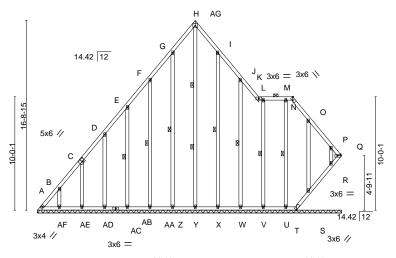
22-6-7 19-6-7 26-10-5 13-11-3 5-7-4 4-3-14

4x5 =

Qty

Ply

Scale = 1:101.7



22-10-5 26-10-5 4-0-0

Plate Offsets (X,Y)	[C:0-3-0,0-3-0], [N:0-2-11,Edge], [Q:Edge,0-1-8]	
		=

Truss

LAY09

Plattsburg, MO - 64477,

Truss Type

GABLE

LOADING (psf) TCLL 25.0 (Roof Snow=25.0) 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 0.13 BC 0.09 WB 0.33	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.02	(loc) - - Q	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 274 lb	FT = 20%	

LUMBER-

Job

242042

Heartland Truss, Inc,

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): K-N.

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

6-0-0 oc bracing: Q-R. 1 Row at midpt

WEBS G-Z, F-AA, E-AB, I-X, J-W, L-V, M-U 2 Rows at 1/3 pts

REACTIONS. All bearings 26-10-5.

Max Horz A=410(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) Y, V except Q=-309(LC 11),

A=-268(LC 10), T=-314(LC 13), Z=-129(LC 12), AA=-151(LC 12), AB=-140(LC 12), AD=-148(LC 12), AE=-140(LC 12), AF=-135(LC 12), X=-127(LC 13), W=-139(LC 13),

U=-132(LC 13), S=-153(LC 13), R=-109(LC 13)

All reactions 250 lb or less at joint(s) T, AA, AB, AD, AE, AF except Max Grav

Q=606(LC 13), A=524(LC 12), Y=355(LC 13), Z=326(LC 18), X=347(LC 34), W=340(LC 34), V=281(LC 33), U=272(LC 33), S=329(LC 46), R=288(LC 34)

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

TOP CHORD A-B=-694/433, B-C=-563/353, C-D=-421/298, D-E=-270/237, G-H=-237/269, O-P=-287/183,

P-Q=-394/258

A-AF=-156/253, AE-AF=-156/253, AD-AE=-160/255, AB-AD=-160/255, AA-AB=-160/255,

Z-AA=-160/255, Y-Z=-160/255, X-Y=-160/255, W-X=-160/255, V-W=-160/255, U-V=-160/255, T-U=-160/255, S-T=-261/419, R-S=-266/408, Q-R=-262/398

WEBS H-Y=-331/235, G-Z=-286/153, I-X=-307/151, J-W=-301/162, O-S=-298/191, P-R=-251/130

NOTES-

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 10-11-3, Exterior(2R) 10-11-3 to 16-11-3, Interior(1) 16-11-3 to 19-6-7, Exterior(2R) 19-6-7 to 23-11-3, Exterior(2E) 23-11-3 to 26-8-1 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=25.0 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.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Y, V except (jt=lb) Q=309, A=268, T=314, Z=129, AA=151, AB=140, AD=148, AE=140, AF=135, X=127, W=139, U=132, S=153, R=109.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) Q, S, R.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere naestagia 12 dard ANSI/TPI 1



OF MISSO

ANDREW

THOMAS

JOHNSON

NUMBER

PE-2017018993

ROLL STONAL

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

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROCF DEVELOPMENT SERVIGES 242042 LAY09 **GABLE** | Job Reference (optional) | LEE'S SUMMIT, MISSOU | 8.730 s Oct 31 2024 MiTek Industries, Inc. | Wed Nov 27-9749-10-2024 Raps 2 | ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-REmSdL5mXcQZU9sCeGKNo?I 5940/H3m2kgsb2/t2732 LEE'S SUMMIT. MISSOURI

Heartland Truss, Inc, Plattsburg, MO - 64477,

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



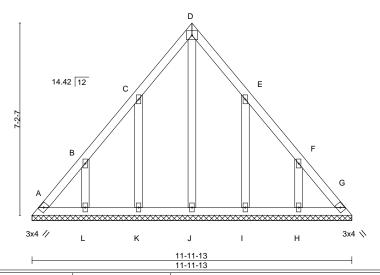
RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply GENE BOSLEY RES. / ROO 242042 LAY10 **GABLE** Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

ID:mrcY1X_2FQFIXm9hhpx4TmyPVI_-vQKqrh6OlwYQ6JQaC_rcKCH_BZFQ 5-11-15 5-11-15

4x5 =

Scale = 1:43.2



LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1	5 TC 0.11 5 BC 0.05	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr YE Code IRC2018/TPI2014		Horz(CT)	0.00	G	n/a	n/a	Weight: 72 lb	FT = 20%

LUMBER-TOP CHORD

OTHERS

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

BOT CHORD 2x4 SP No.3 BRACING-

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

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

REACTIONS. All bearings 11-11-13.

Max Horz A=179(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-147(LC 12), L=-146(LC 12), I=-146(LC 13),

H=-146(LC 13)

Max Grav All reactions 250 lb or less at joint(s) A, G, J, L, H except K=332(LC 18), I=332(LC 19)

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

C-K=-293/173, E-I=-293/172 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Exterior(2R) 3-3-12 to 8-8-2, Exterior(2E) 8-8-2 to 11-8-2 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=25.0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G except (jt=lb) K=147, L=146, I=146, H=146.
- 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.





Center plate on joint unless x Center plate on joint unless x Offsets are indicated. Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth. mbols Center plate on joint unless x, y

Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

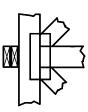
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



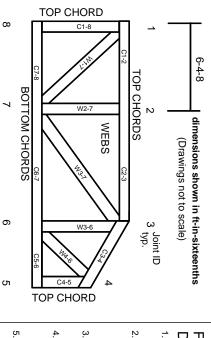
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 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.

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.