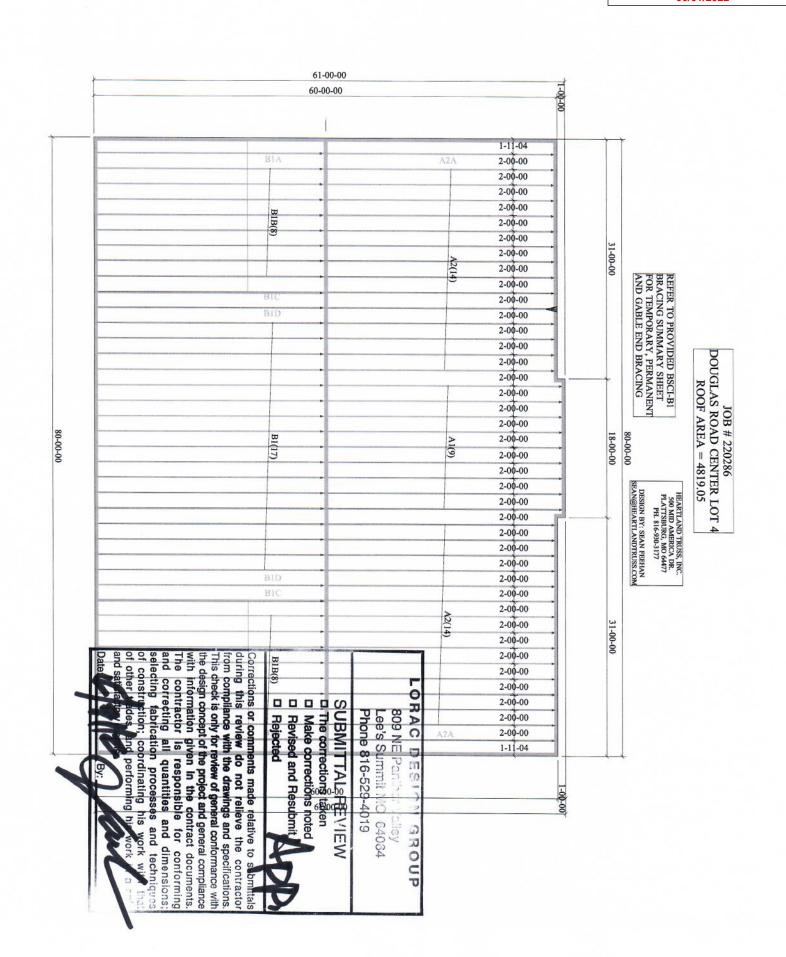
As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 06/01/2022





As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 06/01/2022

MiTek USA, Inc.

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

Re: 220286

Buildforce/Douglas Rd. Center

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: I49478243 thru I49478250

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



LORAC DESIGN GROUP

809 NE Panthor Valley Lee's Summit MO 64064 Phone 816-529-4019

SUBMITTAL REVIEW

- ☐ The corrections taken
- ☐ Make corrections noted
- □ Revised and Resubmit
- □ Rejected

Corrections or comments made relative is submittals during this review do not relieve the contractor from compliance with the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that performing its work in a safe and satisfact.

December 31,2021

Sevier, Scott

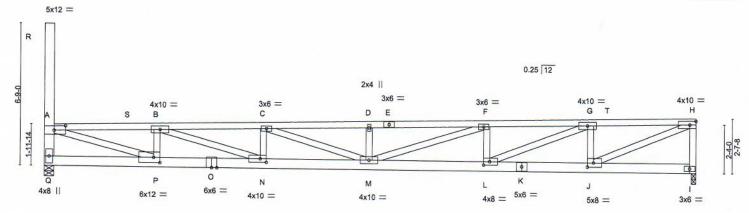
,Engineer

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

As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Cente Development Services 4 Department 220286 A1 Monopitch 9 Lee's Summit, Missour Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20:07 2021 Page 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-2WiZ3v1KzWV4Aqnllbyl8FPmxvfMV3nNwDlj4Wy42lc 21-0-11 25-11-12 30-11-12 5-7-3

Scale = 1:52.6



5-4-4 5-4-4 Plate Offsets (X,Y) [/	5-0-13	15-5-8 5-0-7 [J:0-3-8,0-2-8], [L:0-3-8,0-2-0],	1 21-0-11 5-7-3 N:0-3-8.0-2-01, [P:0-3-8.0-3-01	4LORAC DESSEN GROU
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0	SPACING- 2- Plate Grip DOL Lumber DOL	-0-0 CSI. 1.15 TC 0.87 1.15 BC 0.96 NO WB 0.98	DEFL. in (loc) I/de Vert(LL) -0.61 M-N >59 Vert(CT) -1.02 M-N >36	240 MT20 180 Phone 816-529-4019
3CDL 10.0	Code IRC2018/TPI20		Horz(C1) 0.09 1 n/	SUBMHIGHTIAZID RETI ZEDAN
	2400F 2.0E *Except*		BRACING- TOP CHORD Structural woo	☐ The corrections taken

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 5-3-75 oc gracing Re

of other t

and sa

☐ Rejected

Corrections or comments made re

during this review do not relieve the contractor

from compliance with the drawings and specifications.

This check is only for review of general conformance with the design concept of the project and general compliance

with information given in the contract documents.

The contractor is responsible for conforming

and correcting all quantities and dimensions;

selecting fabrication processes and techniques

of construction; coordinating his work with that

and performing hi

A-E: 2x4 SP 1650F 1.5E

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.3 *Except*

Q-R: 2x6 SP No.1, A-P.H-J: 2x4 SP No.2

REACTIONS. (size) Q=0-5-8, I=0-2-8

Max Horz Q=320(LC 13)

Max Uplift Q=-285(LC 10), I=-324(LC 14) Max Grav Q=1690(LC 20), I=1994(LC 20)

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

A-Q=-1570/570, A-B=-4029/1648, B-C=-6021/2093, C-D=-6443/2102, D-F=-6444/2108,

F-G=-5480/1733, G-H=-3506/1096, H-I=-1910/652

BOT CHORD P-Q=-796/913, N-P=-1718/4022, M-N=-2156/6016, L-M=-1779/5475, J-L=-1135/3496 A-P=-1380/3977, B-P=-1164/483, B-N=-778/2105, C-N=-555/307, C-M=-301/448, **WEBS**

D-M=-436/220, F-M=-404/1024, F-L=-724/331, G-L=-702/2160, G-J=-1512/580,

H-J=-1185/3728

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 Date: MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-2-12, Exterior(2) 4-2-12 to 26-10-0, Corner(3) 26-10-0 to 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

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) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) I.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

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.

LOAD CASE(S) Standard

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MARNING - Verify design parameters and READ NO IES ON THIS AND INCLUDED MITER REPERENCE PAGE MIL 1473 RV. 3/19/20/20 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly dange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



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to submittals

December 31,2021



As Noted on Plans Review

Job Truss Truss Type Qty Buildforce/Douglas Rd. Center 220286 Development Services Department A1 Monopitch 9 | Job Reference (optional) | Lee's Summit, Miss | 8.430 s Aug 16 2021 MiTek Industries, Inc. | Wed Dec 29 16:206/012/023/e 2 | ID:ZVxrBG6bbPx3_CXThc60Rqyi0H8-2WiZ3v1KzWV4Aqnllbyl8FPmxvfMV3nNwDlj4Wy42lc Lee's Summit, Missour Heartland Truss, Inc. Plattsburg, MO - 64477,

LOAD CASE(S) Standard Uniform Loads (plf) Vert: G-S=-70, G-H=-170, I-Q=-20 Trapezoidal Loads (plf) Vert: A=-130-to-S=-70

LORAC DESIGN GROUP

809 NE Panthor Valley Lee's Summit MO 64064 Phone 816-529-4019

SUBMITTAL REVIEW

- ☐ The corrections taken
- □ Make corrections no
- Revised and Result
- ☐ Rejected

clians or comments made relative submittals iring this review do not relieve the contractor m compliance with the drawings and specifications. his check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions selecting fabrication processes and techniques of construction; coordinating his work of other tra performing h and sati



s Noted on Plans Review

Buildforce/Douglas Rd. Center Development Services Department

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:2066020/2022e 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-WjFxGF2ykqdxo_MxsIT_hTywli0fExCX9tUGczy42lb

LORAC

Structural wood sheathing directly applied or 1-9-15 oc purlins

Rigid ceiling directly applied or 5-3-10 or bracing nade rela

of other trad

and satis

Date

except end verticals.

24-11-12

4-11-1

Lee's Summit, Missouri

29-11-12

DESIGN

3 the review do not relieve the contractor a compliance with the drawings and specifications.

is chess is only for review of general conformance with

the design concept of the project and general compliance

with information given in the contract documents.

The contractor is responsible for conforming

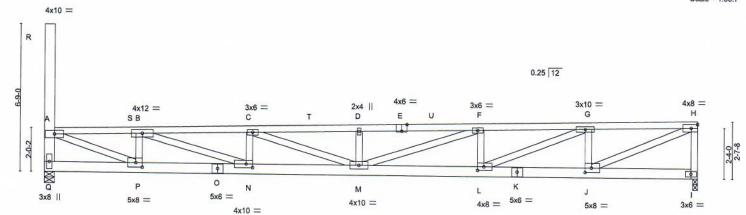
and correcting all quantities and dimensions;

selecting fabrication processes and techniques

of construction; coordinating his work with

and performing

Scale = 1:50.7



Qty

28

20-0-11 5-7-3

4-4-4 4-4-4 Plate Offsets (X,Y)- [E	9-5-1 5-0-13 :0-3-0,Edge], [H:0-3-7,0-2-0], [J:0-3-8,0	14-5-8 5-0-7 0-2-8], [L:0-3-8,0-2-0], [N:0-	20-0-11 5-7-3 -3-8,0-2-0], [P:0-3-8,0-2-8]	1	24-11-12 4-11-1	809 NE Part Valley Let's Sum550 NO 64064 Phone 816 500 votes
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 0.96 BC 0.89 WB 0.94 Matrix-MS	F20021103.11 852 8	(loc) I/defl M >624 M >374 I n/a	L/d 240 180 n/a	SUBMIZE GRIP SUBMIZE TAL [244/196] FW The corrections taken Malweight 187 bons ftc 20%
LUMBER-		·	BRACING-	· ·		Revised and Resubmit

TOP CHORD

BOT CHORD

Job

220286

Heartland Truss, Inc.

Truss

Plattsburg, MO - 64477,

A2

Truss Type

Monopitch

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

2x6 SP No.1 WEBS 2x4 SP No.3 *Except*

Q-R: 2x6 SP No.1, A-P,H-J: 2x4 SP No.2

REACTIONS. (size) Q=0-5-8, I=0-2-8

Max Horz Q=319(LC 11)

Max Uplift Q=-279(LC 10), I=-317(LC 14) Max Grav Q=1637(LC 20), I=1940(LC 20)

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

TOP CHORD A-Q=-1542/602, A-B=-3292/1552, B-C=-5439/2099, C-D=-6021/2149, D-F=-6021/2155,

F-G=-5220/1809, G-H=-3380/1152, H-I=-1853/680

BOT CHORD P-Q=-775/934, N-P=-1623/3286, M-N=-2163/5434, L-M=-1856/5215, J-L=-1192/3370 WEBS A-P=-1279/3362, B-P=-1189/516, B-N=-896/2268, C-N=-619/353, C-M=-361/618,

D-M=-437/225, F-M=-375/852, F-L=-666/340, G-L=-724/2013, G-J=-1453/606,

H-J=-1242/3585

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) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 17-10-0, Corner(3) 17-10-0 to 29-10-0 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) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) I.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) Q=279, I=317.
- 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.

LOAD CASE(S) Standard

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

Vert: G-S=-70, G-H=-170, I-Q=-20

OF MISSO SCOTT M. SEVIER STONAL ET PE-2001018807

December 31,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® On THIS AND INCLUDED MITER REPERENCE PAGE MIT-73 fev. 3/19/2/2/0 BEFORE USE. Design valid for use only with MITE® component, not on a truss system. Before use, the building designer must verify the applicability of design parameters and property 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, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Cente Development Services4Department 220286 A2 Monopitch 28 1 Lee's Summit, Missour Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477,

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8.430 s Aug 16 2021 MITek Industries, Inc. Wed Dec 29 16:2066 2017 926 e 20 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-WjFxGF2ykqdxo_MxsIT_hTywll0fEXcX9tUGczy42lb

LOAD CASE(S) Standard Trapezoidal Loads (plf) Vert: A=-130-to-S=-70

LORAC DESIGN GROUP

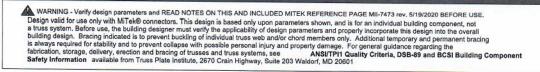
809 NE Panthar valley Lee's Summit IIIO 04064 Phone 816-523-4019

SUBMITTAL REVIEW

- ☐ The corrections taken
- Make corrections noted
- Revised and Resubn
- ☐ Rejected

contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques of construction is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques of other trades, and performing his work in a selecting table, and performing his work in a selecting table.

Date: 9 711

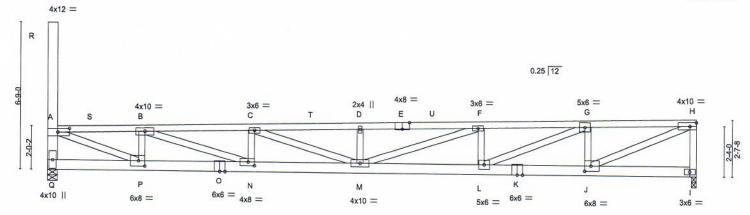




As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Center Development Services4Department 220286 A2A Monopitch 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20:09 2021 Page 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-_vpJTb2aV7loQ7x8Q0_DDgU4ciO_z13gNXEq9Py42la 20-0-11 24-11-12 29-11-12 5-0-7 5-7-3

Scale = 1:51.1



4-4-4 4-4-4 Plate Offsets (X,Y)	9-5-1 5-0-13 (A:0-6-9,0-2-0]. [E:0-4-0,Edge], [H:0-3-7,0	14-5-8 5-0-7 0-2-0], [J:0-3-8,0-3-0], [N:0	20-0-11 5-7-3 0-3-8.0-2-01. [P:0-3-8 0-3-0]		24-11-120 4-11-1	HAC DE GOOD GROUP
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 0.98 BC 0.69	DEFL. in (lo Vert(LL) -0.57 Vert(CT) -0.96	oc) I/defl M >625 M >369	L/d 240 180	809 N.E. Paribar Malley Lee's Lates mit Maris 4064 Phor 188 16-520-24/19
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	WB 0.73 Matrix-MS	Horz(CT) 0.09	I n/a	n/a	SUB Weight: 187 lb R ET = 20%/V
LUMBER-			BRACING.			☐ The corrections taken

BRACING-

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E

2x6 SP No.1 *Except* **BOT CHORD** K-O: 2x6 SP 2400F 2.0E

WEBS

2x4 SP No.3 *Except*

Q-R: 2x6 SP No.1, H-I,B-N,G-L: 2x4 SP No.2

A-P,H-J: 2x4 SP 1650F 1.5E

REACTIONS.

(size) Q=0-5-8, I=0-2-8 Max Horz Q=319(LC 11)

Max Uplift Q=-339(LC 10), I=-390(LC 14) Max Grav Q=1999(LC 20), I=2379(LC 20)

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

TOP CHORD A-Q=-1898/729, A-B=-4162/1869, B-C=-6947/2642, C-D=-7683/2750, D-F=-7684/2756,

F-G=-6643/2322, G-H=-4235/1461, H-I=-2289/838

BOT CHORD P-Q=-775/916, N-P=-1940/4156, M-N=-2707/6940, L-M=-2370/6637, J-L=-1501/4223 WEBS

A-P=-1592/4274, B-P=-1523/633, B-N=-1142/2939, C-N=-834/432, C-M=-422/783, D-M=-595/283, F-M=-468/1106, F-L=-910/428, G-L=-948/2633, G-J=-1841/747,

H-J=-1577/4508

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) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 17-10-0, Corner(3) 17-10-0 to 29-10-0 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) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) I.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) Q=339, I=390.
- 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.

LOAD CASE(S) Standard

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

sas or comments made aring this review do not relieve th centractor ram compliance with the drawings and specifications. his check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques of construction: c dinating his work with tha of other and s

Structural wood sheathing directly applied, except end verticals

Rejected

Rigid ceiling directly applied or 5-7-8 pc bracing. Resubn

OF MISSO STATE SCOTT M. SEVIER PA PA STONAL NUMBER PE-200101880

December 31,2021

As Noted on Plans Review

Job Truss Truss Type Qty Buildforce/Douglas Rd. Center 220286 A2A Monopitch 2 1 Lee's Summit, Missour Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20.8902027 Page 2 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-_vpJTb2aV7loQ7x8Q0_DDgU4ciO_z13gNXEq9Py42la

LOAD CASE(S) Standard

 Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf) Vert: G-S=-100, G-H=-200, I-Q=-20 Trapezoidal Loads (plf)

Vert: A=-130-to-S=-100

L	ORAC DESIGN GROUP 809 NE Parth microy Lee's Summation 04034 Phone 816-520-4019
	SUBMITTAL REVIEW The corrections taken Make corrections note Revised and Resubmi Rejected
am con nis ched the desig with info The con and con selecting of const	consider comments made relative submittals in a review do not relieve the contractor oppliance with the drawings and specifications occurs on the project and general compliance with a concept of the project and general compliance ormation given in the contract documents intractor is responsible for conforming recting all quantities and dimensione; g fabrication processes and techniques trution; chordinating his work with the tracks, an performing a work in a said as a set to said.

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

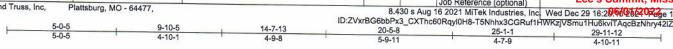
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

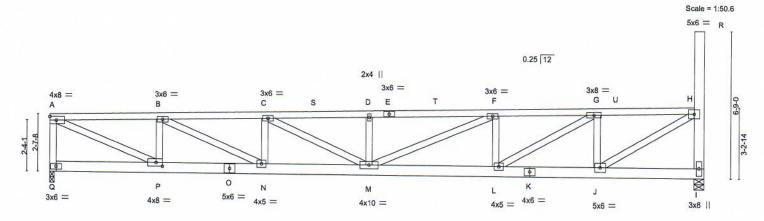
ANSI/TPI1 Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Center Development Services Department 220286 B1 MONOPITCH 17 1 Lee's Summit, Missour Job Reference (optional) Heartland Truss, Inc, Plattsburg, MO - 64477,





5-0-5 5-0-5	4-10-1	14-7-13 4-9-8	20-5-8 5-9-11	-	25-1-1 4-7-9	
Plate Offsets (X,Y) [P: LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	0-3-8,0-2-0] SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.89 BC 0.65 WB 0.81 Matrix-MS	DEFL. ir Vert(LL) -0.34 Vert(CT) -0.57 Horz(CT) 0.06	M >999 M >618	L/d 240 180 n/a	809 NE Paning Valley PLATES GRIP LM726 Summ 244/190 64064 Phone 816-529-4019 St Weight: 193-lbA FT=20% FTM/
LUMBER- TOP CHORD 2x4 SP 16 BOT CHORD 2x6 SP NO WERS 2x4 SP No			BRACING- TOP CHORD	Structural wood s	sheathing di als.	The corrections taken rectly applied or 2-7-11 oc purlins, which corrections noted

BOT CHORD

WEBS

2x4 SP No.3 *Except* I-R: 2x6 SP No.1, A-P,H-J: 2x4 SP No.2

(size) I=0-5-8, Q=0-2-8

REACTIONS. Max Horz Q=282(LC 11)

Max Uplift I=-225(LC 14), Q=-326(LC 10) Max Grav I=1638(LC 20), Q=1942(LC 20)

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

A-Q=-1857/675, A-B=-3103/1049, B-C=-4322/1488, C-D=-4607/1621, D-F=-4609/1627, TOP CHORD

F-G=-3790/1448, G-H=-2267/1021, H-I=-1565/609

P-Q=-438/272, N-P=-1294/3094, M-N=-1563/4316, L-M=-1193/3785, J-L=-746/2262 BOT CHORD

WEBS A-P=-1124/3284, B-P=-1324/558, B-N=-481/1359, C-N=-477/253, C-M=-144/322,

D-M=-448/230, F-M=-391/900, F-L=-784/391, G-L=-641/1776, G-J=-1285/526,

H-J=-905/2567

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) 0-1-12 to 12-1-12, Exterior(2) 12-1-12 to 17-9-0, Corner(3) 17-9-0 to 29-9-0 ate 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) Bearing at joint(s) Q considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) Q.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=225, Q=326.

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.

LOAD CASE(S) Standard

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

Vert: A-B=-170, B-U=-70, I-Q=-20

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE&O connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Weldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

☐ Rejected

Rigid ceiling directly applied or 6-3-10 oc bracing and Resubn

as or comments made relati submittal this review do not relieve the contracto compliance with the drawings and specifications check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents The contractor is responsible for conforming and correcting all quantities and dimensions selecting fabrication processes and techniques of construction; coordinating h of other and s



December 31,2021

As Noted on Plans Review

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Job Truss Truss Type Qty Buildforce/Douglas Rd. Center Ply Development Services Department 220286 **B1** MONOPITCH 17 1 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20:11 2021 Page 2

LOAD CASE(S) Standard Trapezoidal Loads (plf) Vert: U=-70-to-H=-130

> 809 NE Productivalley Lee's Summit MO 04064 Phone 816-522-4019 SUBMITTAL REVIEW ☐ The corrections taken ☐ Make corrections noted Revised and Resubmit ☐ Rejected ors or comments made relative to submittals arting this review do not relieve the contractor a compliance with the drawings and specifications. a check is crity for review of general conformance with the design consept of the project and general compliance with information given in the contract documents. The contractor is responsible for conterming and correcting all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of other trades, and performing his work in a set

LORAC DESIGN GROUP

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

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

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

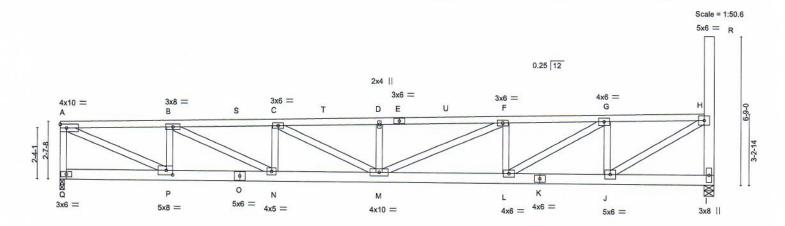


Date:

As Noted on Plans Review

4-10-11

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Center Development Services Department 220286 B₁A MONOPITCH 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20.12 2021 Page 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-PUVS6d5So28NHbgi58YwrJ6fZwOOAKt63VSUlky42IX 14-7-13 20-5-8 25-1-1 29-11-12



5-0- 5-0- Plate Offsets (X,Y) [P		14-7-13 4-9-8	20-5-8 5-9-11	LORAC DESIGN GROUP 25-1-1 4-7809 NE Panth 4-10-11 ley
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 0.75 BC 0.77 WB 0.98 Matrix-MS	DEFL. in (loc) Vert(LL) -0.36 M Vert(CT) -0.61 M Horz(CT) 0.07 I	Loc's Summit NO 64064
LUMBER-			BRACING-	□ Make corrections noted

TOP CHORD

BOT CHORD

TOP CHORD

2x4 SP 1650F 1.5E *Except* A-E: 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1

2x4 SP No.3 *Except* WEBS

A-Q,A-P,H-J: 2x4 SP No.2, I-R: 2x6 SP No.1

REACTIONS. (size) I=0-5-8, Q=0-2-8

Max Horz Q=282(LC 11)

Max Uplift I=-227(LC 14), Q=-391(LC 10)

Max Grav I=1650(LC 20), Q=2330(LC 20)

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

A-Q=-2241/814, A-B=-3782/1295, B-C=-5277/1832, C-D=-5293/1869, D-F=-5294/1876, TOP CHORD

F-G=-4170/1585, G-H=-2417/1076, H-I=-1577/613

BOT CHORD P-Q=-443/287, N-P=-1552/3771, M-N=-1924/5269, L-M=-1337/4165, J-L=-801/2413 WEBS

A-P=-1389/4014, B-P=-1634/670, B-N=-591/1666, C-N=-617/303, C-M=-414/199, D-M=-445/231, F-M=-519/1237, F-L=-925/444, G-L=-742/2042, G-J=-1382/563. H-J=-977/2757

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) 0-1-12 to 12-1-12, Exterior(2) 12-1-12 to 17-9-0, Corner(3) 17-9-0 to 29-9 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

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) Bearing at joint(s) Q considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) Q.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=227, Q=391.

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 262 lb down and 76 lb up at 10-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-39 and BCSI Building Collaboration available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



December 31,2021



Structural wood sheathing directly spote and 25 956 and

crections or comments made relative during this review do not relieve the

from compliance with the drawings and specifications.

This check is only for review of general conformance with

the design concept of the project and general compliance with information given in the contract coarments

The contractor is responsible for conforming

and correcting all quantities and dimensions

selecting fabrication processes and tachni

of construction; coordinating his

of other trades, and performing

actor

except end verticals.

Rejected
Rigid ceiling directly applied or 5-8-3 oc bracing

except end verticals

and satis Date

| Truss | Trus

LOAD CASE(S) Standard

LORAC DESIGN GROUP

809 NE Panther Valley Lee's Summit MO 04064 Phone 816-529-4019

SUBMITTAL REVIEW

- ☐ The corrections taken
- □ Make corrections no
- □ Revised and Resub
- □ Rejected

Corrections or comments made relative to exemittals during this review do not relieve the contractor from compliance with the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract decuments. The contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of other trades, and performing his work in a prefer and satisfaçon many

Date: 41





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Development Services Department

220286 B1B MONOPITCH 16 Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477.

14-7-13

Truss Type

9-10-5

Lee's Summit, Missouri 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:2015/6472(12ge 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-tg3qJz65ZMGEvIFvfr39GWfniJlkvo7G19G1HAy42RW

Structural wood sheathing directly applied or 2-5-800 ptr

rections or comments made

of construction; coordinating his

of other trades, and performing

during this review do not relieve the contractor

from compliance with the drawings and specifications

This check is only for review of general conformance with the design concept of the project and general compliance

with information given in the contract documents

The contractor is responsible for conforming

and correcting all quantities and dimensions

selecting fabrication processes and techniques

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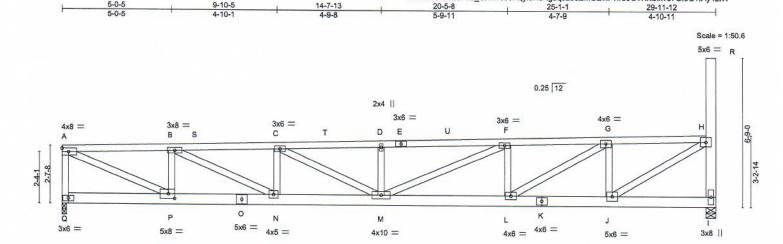
to

Rigid ceiling directly applied or 6-9-8-06 bracing.

and satis

except end verticals.

Buildforce/Douglas Rd. Center



Qty

5-0-5 5-0-5 Plate Offsets (X,Y) [P:		14-7-13 4-9-8	20-5-8 5-9-11	LORAC DESIGNAGROUP
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 0.91 BC 0.77 WB 0.92 Matrix-MS	DEFL. in (loc) l/de Vert(LL) -0.38 M >92 Vert(CT) -0.64 M-N >55 Horz(CT) 0.07 I n	25 240 MT20 244/190
LUMBER-			BRACING-	☐ Make corrections noted

TOP CHORD

BOT CHORD

REACTIONS.

Job

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x6 SP No.1

WEBS 2x4 SP No.3 *Except*

I-R: 2x6 SP No.1, A-P,H-J: 2x4 SP No.2

(size) I=0-5-8, Q=0-2-8

Truss

Max Horz Q=282(LC 13) Max Uplift I=-223(LC 14), Q=-360(LC 10) Max Grav I=1625(LC 20), Q=2145(LC 20)

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

TOP CHORD A-Q=-2058/747, A-B=-3529/1203, B-C=-5071/1758, C-D=-5134/1811, D-F=-5135/1817, F-G=-4086/1555, G-H=-2375/1060, H-I=-1552/604

P-Q=-439/274, N-P=-1456/3519, M-N=-1847/5065, L-M=-1305/4081, J-L=-786/2371 BOT CHORD WEBS A-P=-1292/3750, B-P=-1517/628, B-N=-611/1719, C-N=-643/313, C-M=-347/178,

D-M=-438/227, F-M=-487/1154, F-L=-895/433, G-L=-724/1994, G-J=-1357/553, H-J=-958/2708

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; Enclose Date: MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 12-1-12, Exterior(2) 12-1-12 to 17-9-0, Corner(3) 17-9-0 to 29-9-0 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) Bearing at joint(s) Q considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) Q.

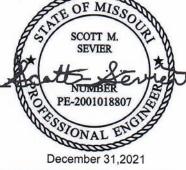
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=223, Q=360.

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 262 lb down and 76 lb up at 10-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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December 31,2021



s Noted on Plans Review

Job Truss Truss Type Qty Buildforce/Douglas Rd. Cente Development Services Department 220286 B₁B MONOPITCH 16 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:2006/892/2022 2 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-tg3qJz65ZMGEVIFvfr39OWfniJlkvo7619C11Ay42tW

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-B=-170, B-S=-70, C-H=-70, I-Q=-20

Concentrated Loads (lb) Vert: C=-200 Trapezoidal Loads (plf) Vert: S=-70-to-C=-126

LORAC DESIGN GROUP 809 NE Panihor Valley

Lee's Summit MO 64064 Phone 816-529-4019

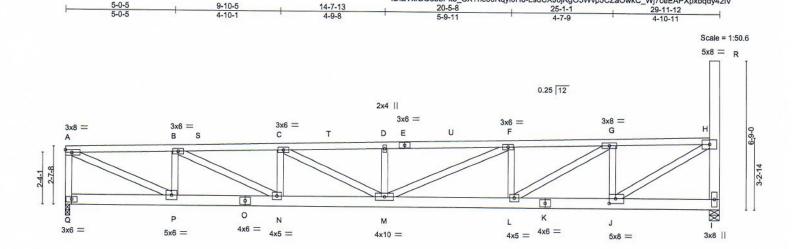
SUBMITTAL REVIEW

- ☐ The corrections taken
- Make corrections noted
- ☐ Revised and Result
- ☐ Rejected

ctions or comments made relative uring this review do not relieve the contractor from compliance with the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and technique of construction; coordinating his of other tra es, and performing

As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Center Development Services Department 220286 B1C MONOPITCH 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:2006/200/2022e 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-LsdCXJ6jKgO5Wvp5CZaOwkC_Wj7ceEAPXpxbqdy42lV



5-0- 5-0- Plate Offsets (X,Y) [J		14-7-13 4-9-8	20-5-8 5-9-11	25-1-1 29-11-12 4-7-9 A.C. 1 5 4-10-11 C.B.O.I.B.
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 0.78 BC 0.60 WB 1.00	DEFL. in (loc) I/d Vert(LL) -0.31 M >9 Vert(CT) -0.54 M >6 Horz(CT) 0.06 I I	99 240 MT20 244/190 64
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		SUB Weight: 387 lb FT = 29%
LUMBER-	6505 1 55 *5veent*		BRACING-	The corrections taken

TOP CHORD

BOT CHORD

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

A-E: 2x4 SP No.2

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3 *Except*

I-R: 2x6 SP No.1, A-P: 2x4 SP No.2

REACTIONS. (size) I=0-5-8, Q=0-2-8

Max Horz Q=282(LC 11)

Max Uplift I=-488(LC 11), Q=-471(LC 10) Max Grav I=2945(LC 20), Q=2813(LC 20)

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

A-Q=-2715/985, A-B=-4886/1694, B-C=-7720/2716, C-D=-8524/3035, D-F=-8527/3042, F-G=-7131/2655, G-H=-4243/1735, H-I=-2843/1094

BOT CHORD P-Q=-445/291, N-P=-1971/4876, M-N=-2853/7713, L-M=-2460/7120, J-L=-1459/4233 WEBS

A-P=-1826/5226, B-P=-2143/854, B-N=-1131/3156, C-N=-1261/536, C-M=-352/900,

D-M=-1007/442, F-M=-632/1535, F-L=-1579/693, G-L=-1245/3365, G-J=-2499/987,

H-J=-1760/4818

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 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 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 Corner(3) 0-1-12 to 12-1-12, Exterior(2) 12-1-12 to 17-9-0, Corner(3) 17-9-0 to 29-9-0 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

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) Bearing at joint(s) Q considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) Q.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) I=488, Q=471.

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

or comments made relative to submittals 13.5 raview do not relieve the contractor simpliance with the drawings and specifications. check is only for review of general conformance with to design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions; selecting fabrication processes and techniques

Structural wood sheathing directly applied or 3-6-14 oc purling

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

except end verticals

of construction; coordinating his work with of other and performing



December 31,2021

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As Noted on Plans Review

Job Truss Truss Type Qty Ply Buildforce/Douglas Rd. Center Development Services4Department 220286 B1C MONOPITCH 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:20:14 2021 Page 2

ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-LsdCXJ6jKgO5Wvp5CZaOwkC_Wj7ceEAPXpxbqdy42IV 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 262 lb down and 76 lb up at 10-1-12 on top 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-B=-170, B-S=-70, C-H=-170, I-Q=-20 Concentrated Loads (lb) Vert: C=-200 Trapezoidal Loads (plf) Vert: S=-70-to-C=-126

> LORAC DESIGN GROUP 809 NE Panthor Valley

Lee's Summil ... 0 64064 Phone 816-529-4019

SUBMITTAL REVIEW

□ The corrections taken

■ Make corrections voted

☐ Revised and Reg

□ Rejected

Corrections or comments made relative during this review do not relieve the contractor from compliance with the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with information given in the contract documents. The contractor is responsible for conforming and correcting all quantities and dimensions selecting fabrication processes and techniques of construction; coordinating his work with that of other

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



As Noted on Plans Review

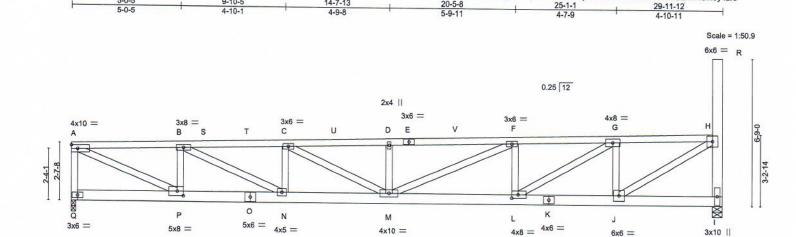
Development Services Department

29-11-12

Job Truss Truss Type Qtv Ply Buildforce/Douglas Rd. Center 220286 B1D MONOPITCH 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477. 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:2006/00/2022e 1 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-p3Bake7L5zWy82OHmG5dTxk6G7PhNiCZmTh8M3y42IU

14-7-13

4-9-8



5-0-5 5-0-5 Plate Offsets (X,Y) [L:0		14-7-13 4-9-8	20-5-8 5-9-1			25-1 4-7	RACIDE 29/11/12 GROUP
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 0.97 BC 0.80	DEFL. Vert(LL) -0.4 Vert(CT) -0.7	71 M	I/defi >846 >500	L/d 240 180	800 NE Lee PLATES GRIP 004 PhoME2016-32 244/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.95 Matrix-MS	Horz(CT) 0.0	08 1	n/a	n/a	SUBWeight: heals RET=20%W
LUMBER-			BRACING-				☐ The corrections taken

TOP CHORD

BOT CHORD

WEBS

TOP CHORD 2x4 SP 1650F 1.5E 2x6 SP No.1 **BOT CHORD**

2x4 SP No.3 *Except*

I-R: 2x6 SP No.1, A-P,H-J: 2x4 SP No.2

REACTIONS.

(size) I=0-5-8, Q=0-2-8 Max Horz Q=282(LC 11)

Max Uplift I=-277(LC 14), Q=-368(LC 10) Max Grav I=1948(LC 20), Q=2196(LC 20)

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

TOP CHORD A-Q=-2107/765, A-B=-3628/1239, B-C=-5290/1837, C-D=-5730/2026, D-F=-5732/2032,

F-G=-4748/1793, G-H=-2816/1219, H-I=-1870/724

BOT CHORD P-Q=-440/276, N-P=-1494/3619, M-N=-1930/5284, L-M=-1556/4741, J-L=-945/2810 **WEBS**

A-P=-1331/3857, B-P=-1566/646, B-N=-659/1852, C-N=-691/330, C-M=-206/495,

D-M=-611/292, F-M=-460/1082, F-L=-1025/483, G-L=-821/2250, G-J=-1625/655,

H-J=-1147/3204

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) 0-1-12 to 12-1-12, Exterior(2) 12-1-12 to 17-9-0, Corner(3) 17-9-0 to 29-9-0 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) Bearing at joint(s) Q considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) Q.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=277, Q=368.

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.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: A-B=-170, B-S=-70, H-T=-100, I-Q=-20

continued on page

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available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



December 31,2021



Structural wood sheathing directly applied, Oexcept and verticals.

☐ Rejected

of construction; coordinating his

of other tr

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from compliance with the drawings and specifications. This check is only for review of general conformance with

the design concept of the project and general compliance with information given in the contract

The contractor is responsible for conforming

and correcting all quantities and dimensions;

selecting fabrication processes and technic

and performing

contractor

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Rigid ceiling directly applied or 577-15 ochracing Resubr

s Noted on Plans Review Job Truss Truss Type Qty Buildforce/Douglas Rd. Center 220286 Development Services Department B₁D MONOPITCH 2 Lee's Summit, Missouri Job Reference (optional) Heartland Truss, Inc. Plattsburg, MO - 64477. 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 29 16:206/001/2022e 2 ID:ZVxrBG6bbPx3_CXThc60Rqyl0H8-p3Bake7L52Wy82OHmG5dTxk6G7PhNiC2mTh8M3y42IU

LOAD CASE(S) Standard Trapezoidal Loads (plf) Vert: S=-70-to-T=-100

LORAC DESIGN GROUP

809 NE Panthor Valley Lee's Summit MO 64064 Phone 816-529-4019

SUBMITTAL REVIEW

- ☐ The corrections taken
- □ Make corrections noted
- Revised and Resum
- ☐ Rejected

comments made relative to submitted this review do not relieve the contract common compliance with the drawings and specification his check is only for review of general conformance with design concept of the project and general compliant with information given in the contract document. The contractor is responsible for conforming and correcting all quantities and dimensions selecting fabrication processes and techniques of construction; coordinating his work with the of other trades, and performing its work in a satiand satisfactor.

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As Noted on Plans Review **Development Services Department** Lee's Summit, Missour 06/01/2022

ATE LOCATION AND ORIENTATION ymbols

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

plates 0- 1/16" from outside edge of truss. For 4 x 2 orientation, locate

8

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE

4 × 4

width measured perpendicular to slots. Second dimension is the length parallel to slots. 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 where bearings occur. (supports) occur. Icons vary but reaction section indicates joint Indicates location where bearings

Industry Standards:

ANSI/TPI1:

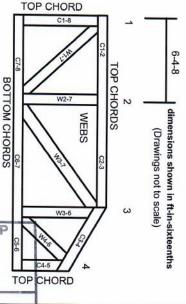
DSB-89:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Guide to Good Practice for Handling,

Connected Wood Trusses Installing & Bracing of Metal Plate Building Component Safety Information,

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:

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

LORAC 809

Lee's Summit Phone 816-52 8. Unfless other

mant preservative treated; or gree

Use with trigited ardand, piese negline, treated as couse with fire red

Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing or less, if no ceiling is installed, unless otherwise noted

section 6.3 These truss designs rely on lumber values

Lumber design values are in accordance with ANSI/TPI 1

truss unless otherwise shown.

Trusses are designed for wind loads in the plane of the

established by others.

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.

18.

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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 and pictures) before use. Reviewing pictures alone is not sufficient.

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.

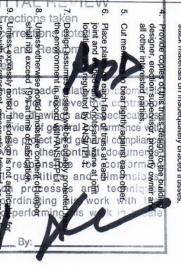
MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.
- Truss bracing must be designed by an engineer. For bracing should be considered. wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω



64 on

